

# SAFETY DATA SHEET

## Diacetone Alcohol

Version 1.0

Revision Date 24.09.2018

Print Date 02.10.2019

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name : Diacetone Alcohol  
Product code : S1213  
Registration number : 01-2119473975-21-0001  
Synonyms : 4-hydroxy-4-methyl-2-pentanone, DAA, Dimethyl  
acetonylcarbinol  
CAS-No. : 123-42-2  
EC-No. : 204-626-7

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Use only in industrial processes.  
Please refer to Ch16 and/or the annexes for the registered  
uses under REACH.  
Uses advised against : This product must not be used in applications other than the  
above without first seeking the advice of the supplier.

#### 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier : **Shell Chemicals Europe B.V.**  
PO Box 2334  
3000 CH Rotterdam  
Netherlands  
Telephone :  
Telefax :  
Email Contact for Safety Data Sheet :

#### 1.4 Emergency telephone number

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3 H226: Flammable liquid and vapour.  
Eye irritation, Category 2 H319: Causes serious eye irritation.  
Specific target organ toxicity - single exposure, Category 3, Respiratory Tract H335: May cause respiratory irritation.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)



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Hazard pictograms	:	 
Signal word	:	Warning
Hazard statements	:	<p>H226 PHYSICAL HAZARDS: Flammable liquid and vapour.</p> <p>H319 HEALTH HAZARDS: Causes serious eye irritation.</p> <p>H335 HEALTH HAZARDS: May cause respiratory irritation.</p> <p>ENVIRONMENTAL HAZARDS: Not classified as environmental hazard according to CLP criteria.</p>
Precautionary statements	:	<p><b>Prevention:</b></p> <p>P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.</p> <p>P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p><b>Response:</b></p> <p>P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P312 Call a POISON CENTER/doctor if you feel unwell.</p> <p><b>Storage:</b></p> <p>P403 + P233 Store in a well-ventilated place. Keep container tightly closed.</p> <p><b>Disposal:</b></p> <p>P501 Dispose of contents and container to appropriate waste site or reclaimer in accordance with local and national regulations.</p>

### 2.3 Other hazards

The substance does not fulfill all screening criteria for persistence, bioaccumulation and toxicity and hence is not considered to be PBT or vPvB.

Vapours are heavier than air. Vapours may travel across the ground and reach remote ignition sources causing a flashback fire danger.

Even with proper grounding and bonding, this material can still accumulate an electrostatic charge. If sufficient charge is allowed to accumulate, electrostatic discharge and ignition of flammable air-vapour mixtures can occur.

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**SECTION 3: Composition/information on ingredients****3.1 Substances****Hazardous components**

Chemical name	CAS-No. EC-No.	Concentration [%]
Diacetone alcohol	123-42-2 204-626-7	100

**SECTION 4: First aid measures****4.1 Description of first aid measures**

- General advice : In general no treatment is necessary, however, obtain medical advice.
- Protection of first-aiders : When administering first aid, ensure that you are wearing the appropriate personal protective equipment according to the incident, injury and surroundings.
- If inhaled : If inhalation of mists, fumes or vapour causes irritation to the nose or throat, remove to fresh air.  
If symptoms persist, obtain medical advice.
- In case of skin contact : Remove contaminated clothing. Flush exposed area with water and follow by washing with soap if available.  
If persistent irritation occurs, obtain medical attention.
- In case of eye contact : Immediately flush eyes with large amounts of water for at least 15 minutes while holding eyelids open. Transport to the nearest medical facility for additional treatment.
- If swallowed : If swallowed, do not induce vomiting: transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.  
If any of the following delayed signs and symptoms appear within the next 6 hours, transport to the nearest medical facility: fever greater than 101° F (38.3°C), shortness of breath, chest congestion or continued coughing or wheezing.

**4.2 Most important symptoms and effects, both acute and delayed**

- Symptoms : If material enters lungs, signs and symptoms may include coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath, and/or fever.  
Eye irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blurred vision.  
Respiratory irritation signs and symptoms may include a temporary burning sensation of the nose and throat, coughing,

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and/or difficulty breathing.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Potential for chemical pneumonitis.  
Call a doctor or poison control center for guidance.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Unsuitable extinguishing media : None

### 5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : The vapour is heavier than air, spreads along the ground and distant ignition is possible. Carbon monoxide may be evolved if incomplete combustion occurs.

### 5.3 Advice for firefighters

Special protective equipment for firefighters : Proper protective equipment including chemical resistant gloves are to be worn; chemical resistant suit is indicated if large contact with spilled product is expected. Self-Contained Breathing Apparatus must be worn when approaching a fire in a confined space. Select fire fighter's clothing approved to relevant Standards (e.g. Europe: EN469).

Specific extinguishing methods : Standard procedure for chemical fires.

Further information : Clear fire area of all non-emergency personnel.  
Keep adjacent containers cool by spraying with water.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Observe the relevant local and international regulations  
Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.  
Local authorities should be advised if significant spillages cannot be contained.  
The vapour is heavier than air, spreads along the ground and distant ignition is possible.  
Vapour may form an explosive mixture with air.  
6.1.1 For non emergency personnel:  
Avoid contact with skin, eyes and clothing.  
Isolate hazard area and deny entry to unnecessary or unprotected personnel.

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Stay upwind and keep out of low areas.  
6.1.2 For emergency responders:  
Avoid contact with skin, eyes and clothing.  
Isolate hazard area and deny entry to unnecessary or unprotected personnel.  
Stay upwind and keep out of low areas.

**6.2 Environmental precautions**

Environmental precautions : Shut off leaks, if possible without personal risks. Remove all possible sources of ignition in the surrounding area. Use appropriate containment to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers. Attempt to disperse the vapour or to direct its flow to a safe location for example by using fog sprays. Take precautionary measures against static discharge. Ensure electrical continuity by bonding and grounding (earthing) all equipment.  
Ventilate contaminated area thoroughly.  
Monitor area with combustible gas indicator.

**6.3 Methods and materials for containment and cleaning up**

Methods for cleaning up : For large liquid spills (> 1 drum), transfer by mechanical means such as vacuum truck to a salvage tank for recovery or safe disposal. Do not flush away residues with water. Retain as contaminated waste. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely.  
For small liquid spills (< 1 drum), transfer by mechanical means to a labeled, sealable container for product recovery or safe disposal. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely.

**6.4 Reference to other sections**

For guidance on selection of personal protective equipment see Chapter 8 of this Safety Data Sheet.,  
For guidance on disposal of spilled material see Chapter 13 of this Safety Data Sheet.

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**SECTION 7: Handling and storage**

General Precautions : Avoid breathing of or direct contact with material. Only use in well ventilated areas. Wash thoroughly after handling. For guidance on selection of personal protective equipment see Chapter 8 of this Safety Data Sheet.  
Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of

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this material.  
Ensure that all local regulations regarding handling and storage facilities are followed.

### 7.1 Precautions for safe handling

- Advice on safe handling : Avoid contact with skin, eyes and clothing.  
Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols.  
Bulk storage tanks should be diked (bunded).  
Extinguish any naked flames. Do not smoke. Remove ignition sources. Avoid sparks.  
Electrostatic discharge may cause fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment to reduce the risk.  
The vapours in the head space of the storage vessel may lie in the flammable/explosive range and hence may be flammable.  
Properly dispose of any contaminated rags or cleaning materials in order to prevent fires.  
Do NOT use compressed air for filling, discharging, or handling operations.
- Product Transfer : Refer to guidance under Handling section.

### 7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : The vapour is heavier than air. Beware of accumulation in pits and confined spaces. Refer to section 15 for any additional specific legislation covering the packaging and storage of this product.
- Packaging material : Suitable material: For containers, or container linings use mild steel, stainless steel.  
Unsuitable material: Natural, butyl, neoprene or nitrile rubbers.
- Container Advice : Containers, even those that have been emptied, can contain explosive vapours. Do not cut, drill, grind, weld or perform similar operations on or near containers.

### 7.3 Specific end use(s)

- Specific use(s) : Please refer to Ch16 and/or the annexes for the registered uses under REACH.

Ensure that all local regulations regarding handling and storage facilities are followed.  
See additional references that provide safe handling practices: American Petroleum Institute 2003 (Protection Against Ignitions Arising out of Static, Lightning and Stray Currents) or National Fire Protection Agency 77 (Recommended Practices on Static Electricity).

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IEC/TS 60079-32-1: Electrostatic hazards, guidance

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Diacetone alcohol	123-42-2	TWA	50 ppm	ACGIH
		TWA	50 ppm 240 mg/m <sup>3</sup>	OSHA Z-1

##### Biological occupational exposure limits

No biological limit allocated.

##### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Acute local effects  
Value: 240 mg/m<sup>3</sup>

##### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

End Use: Workers  
Exposure routes: Dermal  
Potential health effects: Long-term systemic effects  
Value: 9,4 mg/kg bw/day

##### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Long-term systemic effects  
Value: 66,4 mg/m<sup>3</sup>

##### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Long-term local effects  
Value: 66,4 mg/m<sup>3</sup>

##### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

End Use: Consumers  
Exposure routes: Inhalation  
Potential health effects: Acute local effects  
Value: 120 mg/m<sup>3</sup>

##### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

End Use: Consumers  
Exposure routes: Dermal  
Potential health effects: Long-term systemic effects

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Value: 3,4 mg/kg bw/day

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

End Use: Consumers

Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 11,8 mg/m<sup>3</sup>

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

End Use: Consumers

Exposure routes: Oral

Potential health effects: Long-term systemic effects

Value: 3,4 mg/kg bw/day

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

End Use: Consumers

Exposure routes: Inhalation

Potential health effects: Long-term local effects

Value: 11,8 mg/m<sup>3</sup>

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Exposure assessments have not been presented for the environment therefore PNEC values not required.

### Monitoring Methods

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate.

Validated exposure measurement methods should be applied by a competent person and samples analysed by an accredited laboratory.

Examples of sources of recommended exposure measurement methods are given below or contact the supplier. Further national methods may be available.

National Institute of Occupational Safety and Health (NIOSH), USA: Manual of Analytical Methods <http://www.cdc.gov/niosh/>

Occupational Safety and Health Administration (OSHA), USA: Sampling and Analytical Methods <http://www.osha.gov/>

Health and Safety Executive (HSE), UK: Methods for the Determination of Hazardous Substances <http://www.hse.gov.uk/>

Institut für Arbeitsschutz Deutschen Gesetzlichen Unfallversicherung (IFA) , Germany <http://www.dguv.de/inhalt/index.jsp>

L'Institut National de Recherche et de Sécurité, (INRS), France <http://www.inrs.fr/accueil>

## 8.2 Exposure controls

**Engineering measures** Read in conjunction with the Exposure Scenario for your specific use contained in the Annex.

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include:

Use sealed systems as far as possible.

Adequate explosion-proof ventilation to control airborne concentrations below the exposure guidelines/limits.

Local exhaust ventilation is recommended.



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Firewater monitors and deluge systems are recommended.  
Eye washes and showers for emergency use.  
Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.

### General Information:

Always observe good personal hygiene measures, such as washing hands after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned.

Practice good housekeeping.

Define procedures for safe handling and maintenance of controls.

Educate and train workers in the hazards and control measures relevant to normal activities associated with this product.

Ensure appropriate selection, testing and maintenance of equipment used to control exposure, e.g. personal protective equipment, local exhaust ventilation.

Drain down system prior to equipment break-in or maintenance.

Retain drain downs in sealed storage pending disposal or subsequent recycle.

### Personal protective equipment

Read in conjunction with the Exposure Scenario for your specific use contained in the Annex. The provided information is made in consideration of the PPE directive (Council Directive 89/686/EEC) and the CEN European Committee for Standardisation (CEN) standards.

Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

Eye protection : Wear goggles for use against liquids and gas.  
Wear full face shield if splashes are likely to occur.  
Approved to EU Standard EN166.

Hand protection

Remarks : Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection. Longer term protection: Butyl rubber. Nitrile rubber. Incidental contact/Splash protection: PVC or neoprene rubber gloves. For continuous contact we recommend gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes where suitable gloves can be identified. For short-term/splash protection we recommend the same, but recognize that suitable gloves offering this level of protection may not be available and in this case a lower breakthrough time maybe acceptable so long as appropriate maintenance and replacement regimes are followed. Glove thickness is not a good predictor of glove resistance to a chemical as it is dependent on the exact composition of the glove material. Glove thickness should be typically greater than 0.35 mm depending on the glove make and model. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical

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resistance of glove material, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended.

**Skin and body protection** : Wear antistatic and flame retardant clothing if a local risk assessment deems it so.  
Skin protection is not required under normal conditions of use. For prolonged or repeated exposures use impervious clothing over parts of the body subject to exposure.  
If repeated and/or prolonged skin exposure to the substance is likely, then wear suitable gloves tested to relevant Standard, and provide employee skin care programmes.  
Protective clothing approved to EU Standard EN14605.

**Respiratory protection** : If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are unsuitable (e.g. airborne concentrations are high, risk of oxygen deficiency, confined space) use appropriate positive pressure breathing apparatus. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter.  
If air-filtering respirators are suitable for conditions of use: Select a filter suitable for organic gases and vapours meeting EN14387 [Filter type A, for use against certain organic gases and vapours with a boiling point >65°C (149°F)].

**Thermal hazards** : Not applicable

**Hygiene measures** : Wash hands before eating, drinking, smoking and using the toilet. Launder contaminated clothing before re-use.

### Environmental exposure controls

**General advice** : Read in conjunction with the Exposure Scenario for your specific use contained in the Annex.  
Take appropriate measures to fulfill the requirements of relevant environmental protection legislation. Avoid contamination of the environment by following advice given in Chapter 6. If necessary, prevent undissolved material from being discharged to waste water. Waste water should be treated in a municipal or industrial waste water treatment plant before discharge to surface water.

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Local guidelines on emission limits for volatile substances must be observed for the discharge of exhaust air containing vapour.  
Minimise release to the environment. An environmental assessment must be made to ensure compliance with local environmental legislation.  
Information on accidental release measures are to be found in section 6.

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Appearance	: Liquid.
Colour	: clear
Odour	: characteristic
Odour Threshold	: Data not available
pH	: Not applicable
Melting point/freezing point	: -43 °C
Boiling point/boiling range	: 150 - 172 °C
Flash point	: 58 °C Method: ASTM D-93 / PMCC
Evaporation rate	: 0,15 Method: ASTM D 3539, nBuAc=1
Flammability (solid, gas)	: Not applicable
Upper explosion limit	: 6,9 %(V)
Lower explosion limit	: 1,8 %(V)
Vapour pressure	: 120 Pa (20 °C)
Relative vapour density	: 4
Relative density	: 0,94 (20 °C)
Density	: 937 - 940 kg/m <sup>3</sup> (20 °C) Method: ASTM D4052
Solubility(ies)	
Water solubility	: Completely miscible. (20 °C)

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Partition coefficient: n-octanol/water	: log Pow: < 3
Auto-ignition temperature	: 620 °C Method: ASTM E-659
Decomposition temperature	: Data not available
Viscosity	
Viscosity, dynamic	: 2,9 mPa.s (20 °C)
Viscosity, kinematic	: Data not available
Explosive properties	: Not applicable
Oxidizing properties	: Not applicable

### 9.2 Other information

Surface tension : 30,9 mN/m, 20 °C

Conductivity : 20 pS/m at 20 °C

Electrical conductivity: > 10,000 pS/m, A number of factors, for example liquid temperature, presence of contaminants, and anti-static additives can greatly influence the conductivity of a liquid, This material is not expected to be a static accumulator.

Molecular weight : 116,16 g/mol

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

The product does not pose any further reactivity hazards in addition to those listed in the following sub-paragraph.

### 10.2 Chemical stability

No hazardous reaction is expected when handled and stored according to provisions

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Reacts with strong oxidising agents.

### 10.4 Conditions to avoid

Conditions to avoid : Avoid heat, sparks, open flames and other ignition sources. Prevent vapour accumulation. In certain circumstances product can ignite due to static electricity.

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### 10.5 Incompatible materials

Materials to avoid : Strong oxidising agents.

### 10.6 Hazardous decomposition products

Hazardous decomposition products : Thermal decomposition is highly dependent on conditions. A complex mixture of airborne solids, liquids and gases including carbon monoxide, carbon dioxide, sulphur oxides and unidentified organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Basis for assessment : Information given is based on product testing.  
Information on likely routes of exposure : Exposure may occur via inhalation, ingestion, skin absorption, skin or eye contact, and accidental ingestion.

#### Acute toxicity

**Product:**

Acute oral toxicity : LD50 Rat: > 2.000 - <= 5.000 mg/kg  
Remarks: May be harmful if swallowed.

Acute inhalation toxicity : Remarks: Low toxicity if inhaled.  
Based on available data, the classification criteria are not met.

Acute dermal toxicity : LD50 Rabbit: > 5.000 mg/kg  
Remarks: Low toxicity:

#### Skin corrosion/irritation

**Product:**

Remarks: Not irritating to skin.

#### Serious eye damage/eye irritation

**Product:**

Remarks: Causes serious eye irritation.

#### Respiratory or skin sensitisation

**Product:**

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Remarks: Not a sensitiser., Based on available data, the classification criteria are not met.

### Germ cell mutagenicity

**Product:**

: Remarks: No evidence of mutagenic activity.

### Carcinogenicity

**Product:**

Remarks: Not a carcinogen., Based on available data, the classification criteria are not met.

Material	GHS/CLP Carcinogenicity Classification
Diacetone alcohol	No carcinogenicity classification.

### Reproductive toxicity

**Product:**

: Remarks: Not a developmental toxicant., Based on available data, the classification criteria are not met., Does not impair fertility.

### STOT - single exposure

**Product:**

Remarks: May cause respiratory irritation.

### STOT - repeated exposure

**Product:**

Remarks: Based on available data, the classification criteria are not met.

### Aspiration toxicity

**Product:**

Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

### Further information

**Product:**

Remarks: Classifications by other authorities under varying regulatory frameworks may exist.

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**Summary on evaluation of the CMR properties**

Germ cell mutagenicity-  
Assessment : This product does not meet the criteria for classification in categories 1A/1B.

Carcinogenicity -  
Assessment : This product does not meet the criteria for classification in categories 1A/1B.

Reproductive toxicity -  
Assessment : This product does not meet the criteria for classification in categories 1A/1B.

**SECTION 12: Ecological information****12.1 Toxicity**

Basis for assessment : Information given is based on product testing.

**Product:**

Toxicity to fish (Acute toxicity) : Remarks: Practically non toxic: LL/EL/IL50 > 100 mg/l

Toxicity to crustacean (Acute toxicity) : Remarks: Practically non toxic: LL/EL/IL50 > 100 mg/l

Toxicity to algae/aquatic plants (Acute toxicity) : Remarks: Practically non toxic: LL/EL/IL50 > 100 mg/l

Toxicity to fish (Chronic toxicity) : Remarks: Data not available

Toxicity to crustacean (Chronic toxicity) : Remarks: Data not available

Toxicity to microorganisms (Acute toxicity) : Remarks: Practically non toxic: LL/EL/IL50 > 100 mg/l

**12.2 Persistence and degradability****Product:**

Biodegradability : Remarks: Readily biodegradable.

**12.3 Bioaccumulative potential****Product:**

Bioaccumulation : Remarks: Does not bioaccumulate significantly.

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Partition coefficient: n-octanol/water : log Pow: < 3

### 12.4 Mobility in soil

#### Product:

Mobility : Remarks: Dissolves in water., If the product enters soil, one or more constituents will or may be mobile and may contaminate groundwater.

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : The substance does not fulfill all screening criteria for persistence, bioaccumulation and toxicity and hence is not considered to be PBT or vPvB.

### 12.6 Other adverse effects

#### Product:

Additional ecological information : Does not have ozone depletion potential.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Recover or recycle if possible.  
It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations.  
Do not dispose into the environment, in drains or in water courses  
Waste product should not be allowed to contaminate soil or ground water, or be disposed of into the environment.  
Waste, spills or used product is dangerous waste.  
  
Disposal should be in accordance with applicable regional, national, and local laws and regulations.  
Local regulations may be more stringent than regional or national requirements and must be complied with.

Contaminated packaging : Drain container thoroughly.  
After draining, vent in a safe place away from sparks and fire.  
Residues may cause an explosion hazard.  
Do not, puncture, cut, or weld uncleaned drums.  
Send to drum recoverer or metal reclaimer.

Local legislation



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Remarks : For the disposal of waste arising from the product, including empty containers not cleared, follow the Legislative Decree 152/06 and subsequent amendments.

### SECTION 14: Transport information

#### 14.1 UN number

ADN : 1148  
ADR : 1148  
RID : 1148  
IMDG : 1148  
IATA : 1148

#### 14.2 Proper shipping name

ADN : DIACETONE ALCOHOL  
ADR : DIACETONE ALCOHOL  
RID : DIACETONE ALCOHOL  
IMDG : DIACETONE ALCOHOL  
  
IATA : DIACETONE ALCOHOL

#### 14.3 Transport hazard class

ADN : 3  
ADR : 3  
RID : 3  
IMDG : 3  
IATA : 3

#### 14.4 Packing group

**ADN**  
Packing group : III  
Classification Code : F1  
Labels : 3  
**ADR**  
Packing group : III  
Classification Code : F1  
Hazard Identification Number : 30  
Labels : 3  
**RID**  
Packing group : III  
Classification Code : F1  
Hazard Identification Number : 30  
Labels : 3  
**IMDG**  
Packing group : III  
Labels : 3  
**IATA**  
Packing group : III  
Labels : 3

#### 14.5 Environmental hazards

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### ADN

Environmentally hazardous : no

### ADR

Environmentally hazardous : no

### RID

Environmentally hazardous : no

### IMDG

Marine pollutant : no

### 14.6 Special precautions for user

Remarks : Special Precautions: Refer to Chapter 7, Handling & Storage, for special precautions which a user needs to be aware of or needs to comply with in connection with transport.

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Pollution category : Z  
Ship type : 2  
Product name : Diacetone alcohol

**Additional Information** : This product may be transported under nitrogen blanketing. Nitrogen is an odourless and invisible gas. Exposure to nitrogen may cause asphyxiation or death. Personnel must observe strict safety precautions when involved with a confined space entry.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - List of substances subject to authorisation (Annex XIV) : Product is not subject to Authorisation under REACH.

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

Other regulations : The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

Classification, packaging and labeling of dangerous substances (D.Lgs.52/1997 and subsequent amendments).  
Classification, packaging and labeling of dangerous preparations (D.Lgs.65/2003). Safeguard of health and safety in the workplaces (D.Lgs.81/2008 and subsequent amendments). For waste disposal refer to D.Lgs.152/06 and subsequent amendments.

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Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), annex XIV.  
 Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), annex XVII.  
 Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances (Seveso III).  
 Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work and its amendments.  
 Directive 1994/33/EC on the protection of young people at work and its amendments.  
 Council Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding and its amendments.

Product is subject to the Seveso II directive.

**The components of this product are reported in the following inventories:**

AIIC	: Listed
DSL	: Listed
IECSC	: Listed
ENCS	: Listed
KECI	: Listed
NZIoC	: Listed
PICCS	: Listed
TSCA	: Listed
TCSI	: Listed

**15.2 Chemical safety assessment**

A Chemical Safety Assessment has been carried out for this substance.

**SECTION 16: Other information**

Abbreviations and Acronyms : ACGIH = American Conference of Governmental Industrial Hygienists  
 ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road  
 AICS = Australian Inventory of Chemical Substances  
 ASTM = American Society for Testing and Materials  
 BEL = Biological exposure limits  
 BTEX = Benzene, Toluene, Ethylbenzene, Xylenes  
 CAS = Chemical Abstracts Service

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CEFIC = European Chemical Industry Council  
CLP = Classification Packaging and Labelling  
COC = Cleveland Open-Cup  
DIN = Deutsches Institut für Normung  
DMEL = Derived Minimal Effect Level  
DNEL = Derived No Effect Level  
DSL = Canada Domestic Substance List  
EC = European Commission  
EC50 = Effective Concentration fifty  
ECETOC = European Center on Ecotoxicology and Toxicology Of Chemicals  
ECHA = European Chemicals Agency  
EINECS = The European Inventory of Existing Commercial Chemical Substances  
EL50 = Effective Loading fifty  
ENCS = Japanese Existing and New Chemical Substances Inventory  
EWC = European Waste Code  
GHS = Globally Harmonised System of Classification and Labelling of Chemicals  
IARC = International Agency for Research on Cancer  
IATA = International Air Transport Association  
IC50 = Inhibitory Concentration fifty  
IL50 = Inhibitory Level fifty  
IMDG = International Maritime Dangerous Goods  
INV = Chinese Chemicals Inventory  
IP346 = Institute of Petroleum test method N° 346 for the determination of polycyclic aromatics DMSO-extractables  
KECI = Korea Existing Chemicals Inventory  
LC50 = Lethal Concentration fifty  
LD50 = Lethal Dose fifty per cent.  
LL/EL/IL = Lethal Loading/Effective Loading/Inhibitory loading  
LL50 = Lethal Loading fifty  
MARPOL = International Convention for the Prevention of Pollution From Ships  
NOEC/NOEL = No Observed Effect Concentration / No Observed Effect Level  
OE\_HP V = Occupational Exposure - High Production Volume  
PBT = Persistent, Bioaccumulative and Toxic  
PICCS = Philippine Inventory of Chemicals and Chemical Substances  
PNEC = Predicted No Effect Concentration  
REACH = Registration Evaluation And Authorisation Of Chemicals  
RID = Regulations Relating to International Carriage of Dangerous Goods by Rail  
SKIN\_DES = Skin Designation  
STEL = Short term exposure limit  
TRA = Targeted Risk Assessment  
TSCA = US Toxic Substances Control Act  
TWA = Time-Weighted Average  
vPvB = very Persistent and very Bioaccumulative

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### Further information

Training advice : Provide adequate information, instruction and training for operators.

Other information : For Industry guidance and tools on REACH please visit the CEFIC website at <http://cefic.org/Industry-support>.  
The substance does not fulfill all screening criteria for persistence, bioaccumulation and toxicity and hence is not considered to be PBT or vPvB.

A vertical bar (|) in the left margin indicates an amendment from the previous version.

Sources of key data used to compile the Safety Data Sheet : The quoted data are from, but not limited to, one or more sources of information (e.g. toxicological data from Shell Health Services, material suppliers' data, CONCAWE, EU IUCLID data base, EC 1272 regulation, etc).

### Identified Uses according to the Use Descriptor System

#### Uses - Worker

Title : Manufacture of substance- Industrial

#### Uses - Worker

Title : Use as an intermediate- Industrial

#### Uses - Worker

Title : Distribution of substance- Industrial

#### Uses - Worker

Title : Formulation & (re)packing of substances and mixtures- Industrial

#### Uses - Worker

Title : Uses in Coatings- Industrial

#### Uses - Worker

Title : Uses in Coatings- Professional

#### Uses - Worker

Title : Use in Cleaning Agents- Industrial

#### Uses - Worker

Title : Use in Cleaning Agents- Professional

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**Uses - Worker**

Title : Lubricants- Industrial

**Uses - Worker**

Title : Use in Agrochemicals uses- Professional

**Uses - Worker**

Title : Functional Fluids- Industrial

**Uses - Worker**

Title : Use in laboratories- Industrial

**Uses - Worker**

Title : Use in laboratories- Professional

**Uses - Worker**

Title : Water treatment chemicals- Industrial

**Identified Uses according to the Use Descriptor System**

**Uses - Consumer**

Title : Uses in Coatings  
- Consumer

**Uses - Consumer**

Title : Use in Cleaning Agents  
- Consumer

**Uses - Consumer**

Title : Use in Agrochemicals uses  
- Consumer

**Uses - Consumer**

Title : Other Consumer Uses  
- Consumer

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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**Exposure Scenario - Worker**

<b>300000000489</b>	
<b>SECTION 1</b>	<b>EXPOSURE SCENARIO TITLE</b>
<b>Title</b>	Manufacture of substance- Industrial
<b>Use Descriptor</b>	<b>Sector of Use:</b> SU 3, SU8, SU9 <b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 15 <b>Environmental Release Categories:</b> ERC1, ERC4
<b>Scope of process</b>	Manufacture of the substance or use as a process chemical or extraction agent. Includes recycling/ recovery, material transfers, storage, maintenance and loading (including marine vessel/barge, road/rail car and bulk container), sampling and associated laboratory activities.

<b>SECTION 2</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
<b>Additional Information</b>	No exposure assessment presented for the environment.

<b>Section 2.1</b>	<b>Control of Worker Exposure</b>
<b>Product Characteristics</b>	
Physical form of product	Liquid, vapour pressure < 0.5 kPa at STP
Concentration of the Substance in Mixture/Article	Covers use of substance/product up to 100% (unless stated differently).
<b>Frequency and Duration of Use</b>	
Covers daily exposures up to 8 hours (unless stated differently).	
<b>Other Operational Conditions affecting Exposure</b>	
Assumes a good basic standard of occupational hygiene is implemented. Assumes use at not more than 20°C above ambient temperature (unless stated differently).	

<b>Contributing Scenarios</b>	<b>Risk Management Measures</b>
General measures (eye irritants).	Use suitable eye protection. Avoid direct eye contact with product, also via contamination on hands.
General exposures (closed systems)Continuous processPROC1PROC2	No other specific measures identified.
General exposures (closed systems)Batch processPROC3	No other specific measures identified.
General exposures (open systems)Batch processPROC4	Wear suitable gloves tested to EN374.
Process samplingPROC8b	Wear suitable gloves tested to EN374.

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Laboratory activities PROC15	No other specific measures identified.
Bulk transfers Dedicated facility PROC8b	Wear suitable gloves tested to EN374.
Equipment cleaning and maintenance PROC8a	Drain down system prior to equipment opening or maintenance. Retain drain downs in sealed storage pending disposal or for subsequent recycle. Wear suitable gloves tested to EN374.
Storage. PROC1 PROC2	Store substance within a closed system.

<b>Section 2.2</b>	<b>Control of Environmental Exposure</b>
No exposure assessment presented for the environment.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.	

<b>Section 3.2 -Environment</b>	
No exposure assessment presented for the environment.	

<b>SECTION 4</b>	<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
<b>Section 4.1 - Health</b>	
Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.	

<b>Section 4.2 -Environment</b>	
No exposure assessment presented for the environment.	



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**Exposure Scenario - Worker**

<b>300000000491</b>	
<b>SECTION 1</b>	<b>EXPOSURE SCENARIO TITLE</b>
<b>Title</b>	Use as an intermediate- Industrial
<b>Use Descriptor</b>	<b>Sector of Use:</b> SU 3, SU8, SU9 <b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 15 <b>Environmental Release Categories:</b> ERC6a
<b>Scope of process</b>	Use of substance as an intermediate (not related to Strictly Controlled Conditions). Includes recycling/ recovery, material transfers, storage, sampling, associated laboratory activities, maintenance and loading (including marine vessel/barge, road/rail car and bulk container).

<b>SECTION 2</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
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<b>Section 2.1</b>	<b>Control of Worker Exposure</b>
<b>Product Characteristics</b>	
Physical form of product	Liquid, vapour pressure < 0.5 kPa at STP
Concentration of the Substance in Mixture/Article	Covers use of substance/product up to 100% (unless stated differently).
<b>Frequency and Duration of Use</b>	
Covers daily exposures up to 8 hours (unless stated differently).	
<b>Other Operational Conditions affecting Exposure</b>	
Assumes a good basic standard of occupational hygiene is implemented. Assumes use at not more than 20°C above ambient temperature (unless stated differently).	

<b>Contributing Scenarios</b>	<b>Risk Management Measures</b>
General measures (eye irritants).	Use suitable eye protection. Avoid direct eye contact with product, also via contamination on hands.
General exposures (closed systems)Continuous processPROC1PROC2	No other specific measures identified.
General exposures (closed systems)Batch processPROC3	No other specific measures identified.
General exposures (open systems)Batch processPROC4	Wear suitable gloves tested to EN374.
Process samplingPROC8b	Wear suitable gloves tested to EN374.
Laboratory	No other specific measures identified.

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activitiesPROC15	
Bulk transfersDedicated facilityPROC8b	Wear suitable gloves tested to EN374.
Equipment cleaning and maintenancePROC8a	Drain down system prior to equipment opening or maintenance. Retain drain downs in sealed storage pending disposal or for subsequent recycle. Wear suitable gloves tested to EN374.
Storage.PROC1PROC2	Store substance within a closed system.

<b>Section 2.2</b>	<b>Control of Environmental Exposure</b>
No exposure assessment presented for the environment.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.	

<b>Section 3.2 -Environment</b>	
No exposure assessment presented for the environment.	

<b>SECTION 4</b>	<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
<b>Section 4.1 - Health</b>	
Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.	

<b>Section 4.2 -Environment</b>	
No exposure assessment presented for the environment.	

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**Exposure Scenario - Worker**

<b>300000000493</b>	
<b>SECTION 1</b>	<b>EXPOSURE SCENARIO TITLE</b>
<b>Title</b>	Distribution of substance- Industrial
<b>Use Descriptor</b>	<b>Sector of Use:</b> SU 3, SU8, SU9 <b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9, PROC 15 <b>Environmental Release Categories:</b> ERC1, ERC2, ERC3, ERC4, ERC5, ERC6a, ERC6b, ERC 6C, ERC 6D, ERC7
<b>Scope of process</b>	Loading (including marine vessel/barge, rail/road car and IBC loading) and repacking (including drums and small packs) of substance, including its sampling, storage, unloading distribution and associated laboratory activities.

<b>SECTION 2</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
<b>Additional Information</b>	No exposure assessment presented for the environment.

<b>Section 2.1</b>	<b>Control of Worker Exposure</b>
<b>Product Characteristics</b>	
Physical form of product	Liquid, vapour pressure < 0.5 kPa at STP
Concentration of the Substance in Mixture/Article	Covers use of substance/product up to 100% (unless stated differently).
<b>Frequency and Duration of Use</b>	
Covers daily exposures up to 8 hours (unless stated differently).	
<b>Other Operational Conditions affecting Exposure</b>	
Assumes a good basic standard of occupational hygiene is implemented. Assumes use at not more than 20°C above ambient temperature (unless stated differently).	

<b>Contributing Scenarios</b>	<b>Risk Management Measures</b>
General measures (eye irritants).	Use suitable eye protection. Avoid direct eye contact with product, also via contamination on hands.
General exposures (closed systems)with occasional controlled exposure.PROC1PROC2PROC3	Handle substance within a closed system.
General exposures (open systems)PROC4	Wear suitable gloves tested to EN374.
Product sampling.PROC3	Ensure dedicated sample points are provided.
Laboratory activitiesPROC15	No other specific measures identified.

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Bulk closed loading and unloading.Dedicated facilityPROC8b	Ensure operation is undertaken outdoors.
Bulk open loading and unloading.PROC8b	Ensure operation is undertaken outdoors.
Drum and small package fillingPROC9	Clear spills immediately. Wear suitable gloves tested to EN374.
Equipment cleaning and maintenancePROC8a	Wear suitable gloves tested to EN374. Retain drain downs in sealed storage pending disposal or for subsequent recycle. Avoid carrying out activities involving exposure for more than 1 hour.
Storage.PROC1PROC2	Store substance within a closed system.

<b>Section 2.2</b>	<b>Control of Environmental Exposure</b>
No exposure assessment presented for the environment.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.	

<b>Section 3.2 -Environment</b>	
No exposure assessment presented for the environment.	

<b>SECTION 4</b>	<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
<b>Section 4.1 - Health</b>	
Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.	

<b>Section 4.2 -Environment</b>	
No exposure assessment presented for the environment.	

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**Exposure Scenario - Worker**

<b>300000000494</b>	
<b>SECTION 1</b>	<b>EXPOSURE SCENARIO TITLE</b>
<b>Title</b>	Formulation & (re)packing of substances and mixtures-Industrial
<b>Use Descriptor</b>	<b>Sector of Use:</b> SU 3, SU 10 <b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 5, PROC 8a, PROC 8b, PROC 9, PROC 14, PROC 15 <b>Environmental Release Categories:</b> ERC2
<b>Scope of process</b>	Formulation, packing and re-packing of the substance and its mixtures in batch or continuous operations, including storage, materials transfers, mixing, tableting, compression, pelletisation, extrusion, large and small scale packing, sampling, maintenance and associated laboratory activities.

<b>SECTION 2</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
<b>Additional Information</b>	No exposure assessment presented for the environment.

<b>Section 2.1</b>	<b>Control of Worker Exposure</b>
<b>Product Characteristics</b>	
Physical form of product	Liquid, vapour pressure < 0.5 kPa at STP
Concentration of the Substance in Mixture/Article	Covers use of substance/product up to 100% (unless stated differently).
<b>Frequency and Duration of Use</b>	
Covers daily exposures up to 8 hours (unless stated differently).	
<b>Other Operational Conditions affecting Exposure</b>	
Assumes a good basic standard of occupational hygiene is implemented. Assumes use at not more than 20°C above ambient temperature (unless stated differently).	

<b>Contributing Scenarios</b>	<b>Risk Management Measures</b>
General measures (eye irritants).	Use suitable eye protection. Avoid direct eye contact with product, also via contamination on hands.
General exposures (closed systems)with occasional controlled exposure.PROC1PROC2PROC3	Handle substance within a closed system.
General exposures (open systems)PROC4	Wear suitable gloves tested to EN374.
General exposures (open systems)with potential for aerosol generation.PROC4	Provide extraction ventilation at points where emissions occur.

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Batch processes at elevated temperatures PROC3	Formulate in enclosed or ventilated mixing vessels. Ensure material transfers are under containment or extract ventilation.
Process sampling PROC3	Ensure dedicated sample points are provided.
Laboratory activities PROC15	No other specific measures identified.
Bulk transfers Dedicated facility PROC8b	Clear transfer lines prior to de-coupling. Wear suitable gloves tested to EN374. Clear spills immediately.
Mixing operations (open systems) PROC5	Wear suitable gloves tested to EN374.
Manual Transfer from/pouring from containers PROC8a	Use drum pumps or carefully pour from container. Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.
Drum/batch transfers Dedicated facility PROC8b	No other specific measures identified.
Production or preparation of articles by tableting, compression, extrusion or pelletisation PROC14	No other specific measures identified.
Drum and small package filling PROC9	Wear suitable gloves tested to EN374.
Equipment cleaning and maintenance PROC8a	Drain down and flush system prior to equipment opening or maintenance. Retain drain downs in sealed storage pending disposal or for subsequent recycle. Wear suitable gloves tested to EN374.
Storage. PROC1 PROC2	Store substance within a closed system.

<b>Section 2.2</b>	<b>Control of Environmental Exposure</b>
No exposure assessment presented for the environment.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.	

<b>Section 3.2 -Environment</b>	
No exposure assessment presented for the environment.	

<b>SECTION 4</b>	<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
<b>Section 4.1 - Health</b>	

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Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

### **Section 4.2 -Environment**

No exposure assessment presented for the environment.

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**Exposure Scenario - Worker**

<b>300000000495</b>	
<b>SECTION 1</b>	<b>EXPOSURE SCENARIO TITLE</b>
<b>Title</b>	Uses in Coatings- Industrial
<b>Use Descriptor</b>	<b>Sector of Use:</b> SU 3 <b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 5, PROC 7, PROC 8a, PROC 8b, PROC 10, PROC 13, PROC 15 <b>Environmental Release Categories:</b> ERC4
<b>Scope of process</b>	Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, spreader, dip, flow, fluidised bed on production lines and film formation) and equipment cleaning, maintenance and associated laboratory activities.

<b>SECTION 2</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
<b>Additional Information</b>	No exposure assessment presented for the environment.

<b>Section 2.1</b>	<b>Control of Worker Exposure</b>
<b>Product Characteristics</b>	
Physical form of product	Liquid, vapour pressure < 0.5 kPa at STP
Concentration of the Substance in Mixture/Article	Covers use of substance/product up to 100% (unless stated differently).,
<b>Frequency and Duration of Use</b>	
Covers daily exposures up to 8 hours (unless stated differently).	
<b>Other Operational Conditions affecting Exposure</b>	
Assumes use at not more than 20°C above ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented.	

<b>Contributing Scenarios</b>	<b>Risk Management Measures</b>
General measures (eye irritants).	Use suitable eye protection. Avoid direct eye contact with product, also via contamination on hands.
General exposures (closed systems)with occasional controlled exposure.Use in contained systemsPROC1PROC2	Handle substance within a closed system.
Film formation - force drying, stoving and other technologies.PROC2	Handle substance within a closed system.



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Mixing operations (closed systems)PROC3	No other specific measures identified.
Film formation - air dryingPROC4	Wear suitable gloves tested to EN374.
Preparation of material for applicationMixing operations (open systems)PROC5	Wear suitable gloves tested to EN374.
Spraying (automatic/robotic)PROC7	Carry out in a vented booth provided with laminar airflow. Wear suitable gloves tested to EN374.
ManualSprayingPROC7	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Wear a respirator conforming to EN140 with Type A filter or better. Wear chemically resistant gloves (tested to EN374) in combination with specific activity training.
Material transfersDedicated facilityPROC8b	Clear transfer lines prior to de-coupling. Wear suitable gloves tested to EN374.
Roller, spreader, flow applicationPROC10	Wear chemically resistant gloves (tested to EN374) in combination with specific activity training.
Dipping, immersion and pouringPROC13	Provide extraction ventilation at points where emissions occur. Avoid manual contact with wet work pieces. Wear suitable gloves tested to EN374.
Laboratory activitiesPROC15	No other specific measures identified.
ManualDrum/batch transfersTransfer from/pouring from containersPROC8aPROC9	Use drum pumps or carefully pour from container. Wear suitable gloves tested to EN374.
Production or preparation or articles by tableting, compression, extrusion or pelletisationPROC14	No other specific measures identified.
Storage.PROC1	Store substance within a closed system.

<b>Section 2.2</b>	<b>Control of Environmental Exposure</b>
No exposure assessment presented for the environment.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.	

<b>Section 3.2 -Environment</b>
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No exposure assessment presented for the environment.

### SECTION 4

### GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO

#### Section 4.1 - Health

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.  
Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

#### Section 4.2 -Environment

No exposure assessment presented for the environment.

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<b>300000000496</b>	
<b>SECTION 1</b>	<b>EXPOSURE SCENARIO TITLE</b>
<b>Title</b>	Uses in Coatings- Professional
<b>Use Descriptor</b>	<b>Sector of Use:</b> SU 22 <b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 5, PROC 8a, PROC 8b, PROC 10, PROC 11, PROC 13, PROC 15, PROC 19 <b>Environmental Release Categories:</b> ERC8a, ERC8d
<b>Scope of process</b>	Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, brush, spreader by hand or similar methods, and film formation), and equipment cleaning, maintenance and associated laboratory activities.

<b>SECTION 2</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
<b>Additional Information</b>	No exposure assessment presented for the environment.

<b>Section 2.1</b>	<b>Control of Worker Exposure</b>
<b>Product Characteristics</b>	
Physical form of product	Liquid, vapour pressure < 0.5 kPa at STP
Concentration of the Substance in Mixture/Article	Covers use of substance/product up to 100% (unless stated differently).,
<b>Frequency and Duration of Use</b>	
Covers daily exposures up to 8 hours (unless stated differently).	
<b>Other Operational Conditions affecting Exposure</b>	
Assumes use at not more than 20°C above ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented.	

<b>Contributing Scenarios</b>	<b>Risk Management Measures</b>
General measures (eye irritants).	Use suitable eye protection. Avoid direct eye contact with product, also via contamination on hands.
Filling/ preparation of equipment from drums or containers.(closed systems)PROC2	Handle substance within a closed system.
General exposures (closed systems)Use in contained systemsPROC1PROC2PROC3	No other specific measures identified.
Film formation - air dryingPROC4	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).

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	, or: Ensure operation is undertaken outdoors. Wear suitable gloves tested to EN374.
Preparation of material for application PROC5	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). , or: Ensure operation is undertaken outdoors. Wear suitable gloves tested to EN374.
Manual Material transfers Drum/batch transfers PROC8a	Provide a good standard of general or controlled ventilation (5 to 15 air changes per hour). Wear chemically resistant gloves (tested to EN374) in combination with specific activity training.
Material transfers Drum/batch transfers Dedicated facility PROC8b	Wear suitable gloves tested to EN374.
Roller, spreader, flow application Indoor PROC10	Provide a good standard of general or controlled ventilation (5 to 15 air changes per hour). Wear chemically resistant gloves (tested to EN374) in combination with intensive management supervision controls.
Roller, spreader, flow application Outdoor PROC10	Wear a respirator conforming to EN140 with Type A filter or better. Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.
Manual Spraying Indoor PROC11	Carry out in a vented booth or extracted enclosure. Avoid carrying out activities involving exposure for more than 1 hour. Wear chemically resistant gloves (tested to EN374) in combination with specific activity training.
Manual Spraying Outdoor PROC11	Ensure operation is undertaken outdoors. Wear a respirator conforming to EN140 with Type A filter or better. Wear chemically resistant gloves (tested to EN374) in combination with intensive management supervision controls.
Dipping, immersion and pouring Indoor PROC13	Provide extraction ventilation at points where emissions occur. Wear suitable gloves tested to EN374. Avoid manual contact with wet work pieces.
Dipping, immersion and pouring Outdoor PROC13	Ensure operation is undertaken outdoors. Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Avoid manual contact with wet work pieces.
Laboratory activities PROC15	No other specific measures identified.

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Hand application - fingerpaints, pastels, adhesivesIndoorPROC19	Ensure doors and windows are opened. Wear chemically resistant gloves (tested to EN374) in combination with intensive management supervision controls.
Hand application - fingerpaints, pastels, adhesivesOutdoorPROC19	Ensure operation is undertaken outdoors. Avoid carrying out operation for more than 15 minutes. Wear chemically resistant gloves (tested to EN374) in combination with intensive management supervision controls.

<b>Section 2.2</b>	<b>Control of Environmental Exposure</b>
No exposure assessment presented for the environment.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.	

<b>Section 3.2 -Environment</b>	
No exposure assessment presented for the environment.	

<b>SECTION 4</b>	<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
<b>Section 4.1 - Health</b>	
Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.	

<b>Section 4.2 -Environment</b>	
No exposure assessment presented for the environment.	

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**Exposure Scenario - Worker**

<b>300000000497</b>	
<b>SECTION 1</b>	<b>EXPOSURE SCENARIO TITLE</b>
<b>Title</b>	Use in Cleaning Agents- Industrial
<b>Use Descriptor</b>	<b>Sector of Use:</b> SU 3 <b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 7, PROC 8a, PROC 8b, PROC 10, PROC 13 <b>Environmental Release Categories:</b> ERC4
<b>Scope of process</b>	Covers the use as a component of cleaning products including transfer from storage, pouring/unloading from drums or containers. Exposures during mixing/diluting in the preparatory phase and cleaning activities (including spraying, brushing, dipping, wiping, automated and by hand), related equipment cleaning and maintenance.

<b>SECTION 2</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
<b>Additional Information</b>	No exposure assessment presented for the environment.

<b>Section 2.1</b>	<b>Control of Worker Exposure</b>
<b>Product Characteristics</b>	
Physical form of product	Liquid, vapour pressure < 0.5 kPa at STP
Concentration of the Substance in Mixture/Article	Covers use of substance/product up to 100% (unless stated differently).
<b>Frequency and Duration of Use</b>	
Covers daily exposures up to 8 hours (unless stated differently).	
<b>Other Operational Conditions affecting Exposure</b>	
Assumes use at not more than 20°C above ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented.	

<b>Contributing Scenarios</b>	<b>Risk Management Measures</b>
General measures (eye irritants).	Use suitable eye protection. Avoid direct eye contact with product, also via contamination on hands.
Bulk transfers PROC8a	Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.
Automated process with (semi) closed systems. Use in contained systems PROC2	No other specific measures identified.
Drum/batch transfers Use in contained batch	No other specific measures identified.

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processesPROC3	
Filling/ preparation of equipment from drums or containers.PROC8b	Wear suitable gloves tested to EN374.
General exposures (open systems)PROC4	Provide extraction ventilation at points where emissions occur. Avoid carrying out activities involving exposure for more than 4 hours , or: Wear a respirator conforming to EN140 with Type A filter or better. Wear suitable gloves tested to EN374.
Degreasing small objects in cleaning stationPROC13	Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.
Cleaning with low-pressure washersPROC10	Provide a good standard of general or controlled ventilation (5 to 15 air changes per hour). Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.
Cleaning with high pressure washersPROC7	Provide a good standard of general or controlled ventilation (5 to 15 air changes per hour). Avoid carrying out operation for more than 4 hours. Wear a respirator conforming to EN140 with Type A filter or better. Wear chemically resistant gloves (tested to EN374) in combination with specific activity training.
ManualSurfacesCleaningno sprayingPROC10	Provide a good standard of general or controlled ventilation (5 to 15 air changes per hour). Wear suitable gloves tested to EN374.
Storage.PROC1	Store substance within a closed system.

<b>Section 2.2</b>	<b>Control of Environmental Exposure</b>
No exposure assessment presented for the environment.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.	

<b>Section 3.2 -Environment</b>	
No exposure assessment presented for the environment.	

<b>SECTION 4</b>	<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
<b>Section 4.1 - Health</b>	

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Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

### **Section 4.2 -Environment**

No exposure assessment presented for the environment.



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**Exposure Scenario - Worker**

<b>300000000498</b>	
<b>SECTION 1</b>	<b>EXPOSURE SCENARIO TITLE</b>
<b>Title</b>	Use in Cleaning Agents- Professional
<b>Use Descriptor</b>	<b>Sector of Use:</b> SU 22 <b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 10, PROC 11, PROC 13 <b>Environmental Release Categories:</b> ERC8a, ERC8d
<b>Scope of process</b>	Covers the use as a component of cleaning products including pouring/unloading from drums or containers; and exposures during mixing/diluting in the preparatory phase and cleaning activities (including spraying, brushing, dipping, wiping automated and by hand).

<b>SECTION 2</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
<b>Additional Information</b>	No exposure assessment presented for the environment.

<b>Section 2.1</b>	<b>Control of Worker Exposure</b>
<b>Product Characteristics</b>	
Physical form of product	Liquid, vapour pressure < 0.5 kPa at STP
Concentration of the Substance in Mixture/Article	Covers use of substance/product up to 100% (unless stated differently).
<b>Frequency and Duration of Use</b>	
Covers daily exposures up to 8 hours (unless stated differently).	
<b>Other Operational Conditions affecting Exposure</b>	
Assumes use at not more than 20°C above ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented.	

<b>Contributing Scenarios</b>	<b>Risk Management Measures</b>
General measures (eye irritants).	Use suitable eye protection. Avoid direct eye contact with product, also via contamination on hands.
Filling/ preparation of equipment from drums or containers.PROC8b	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). , or: Ensure operation is undertaken outdoors. Wear suitable gloves tested to EN374.
Automated process with (semi) closed systems.Use in contained systemsPROC2PROC3	No other specific measures identified.
Semi Automated process. (e.g.: Semi	Wear suitable gloves tested to EN374.

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automatic application of floor care and maintenance products)PROC4	
Filling/ preparation of equipment from drums or containers.PROC8a	Carefully pour from containers. Ensure operation is undertaken outdoors. , or: Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Avoid carrying out operation for more than 1 hour. , or: Wear a respirator conforming to EN140 with Type A filter or better. Wear suitable gloves tested to EN374.
ManualSurfacesCleaningDipping, immersion and pouringPROC13	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Wear suitable gloves tested to EN374.
Cleaning with low-pressure washersRolling, Brushingno sprayingPROC10	Limit the substance content in the product to 25 %. Provide a good standard of general or controlled ventilation (5 to 15 air changes per hour). Wear suitable gloves tested to EN374.
Cleaning with high pressure washersSprayingIndoorPROC11	Limit the substance content in the product to 25 %. Carry out in a vented booth or extracted enclosure. Avoid carrying out activities involving exposure for more than 4 hours Wear suitable gloves tested to EN374.
Cleaning with high pressure washersSprayingOutdoorPROC11	Avoid carrying out activities involving exposure for more than 15 minutes. , or: Wear a respirator conforming to EN140 with Type A filter or better. Wear suitable gloves tested to EN374.
ManualSurfacesCleaningSprayingPROC10	Limit the substance content in the product to 25 %. Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Avoid carrying out operation for more than 4 hours. Wear suitable gloves tested to EN374.
Ad hoc manual application via trigger sprays, dipping, etc.Rolling, BrushingPROC10	Limit the substance content in the product to 25 %. Provide extraction ventilation at points where emissions occur. Wear suitable gloves tested to EN374.
Cleaning of medical devicesPROC4	Wear suitable gloves tested to EN374.
Storage.PROC1	Store substance within a closed system.

### Section 2.2

### Control of Environmental Exposure

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No exposure assessment presented for the environment.

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
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<b>Section 3.1 - Health</b>
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The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

<b>Section 3.2 -Environment</b>
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No exposure assessment presented for the environment.

<b>SECTION 4</b>	<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
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<b>Section 4.1 - Health</b>
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Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.  
Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

<b>Section 4.2 -Environment</b>
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No exposure assessment presented for the environment.

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**Exposure Scenario - Worker**

<b>300000000500</b>	
<b>SECTION 1</b>	<b>EXPOSURE SCENARIO TITLE</b>
<b>Title</b>	Lubricants- Industrial
<b>Use Descriptor</b>	<b>Sector of Use:</b> SU 3 <b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 7, PROC 8a, PROC 8b, PROC 9, PROC 10, PROC 13, PROC 17, PROC 18 <b>Environmental Release Categories:</b> ERC4, ERC7
<b>Scope of process</b>	Covers the use of formulated lubricants in closed and open systems including transfer operations, operation of machinery/engines and similar articles, reworking on reject articles, equipment maintenance and disposal of wastes.

<b>SECTION 2</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
<b>Additional Information</b>	No exposure assessment presented for the environment.

<b>Section 2.1</b>	<b>Control of Worker Exposure</b>
<b>Product Characteristics</b>	
Physical form of product	Liquid, vapour pressure < 0.5 kPa at STP
Concentration of the Substance in Mixture/Article	Covers use of substance/product up to 100% (unless stated differently).
<b>Frequency and Duration of Use</b>	
Covers daily exposures up to 8 hours (unless stated differently).	
<b>Other Operational Conditions affecting Exposure</b>	
Assumes a good basic standard of occupational hygiene is implemented. Assumes use at not more than 20°C above ambient temperature (unless stated differently).	

<b>Contributing Scenarios</b>	<b>Risk Management Measures</b>
General measures (eye irritants).	Use suitable eye protection. Avoid direct eye contact with product, also via contamination on hands.
General exposures (closed systems)PROC1PROC2PROC3	No other specific measures identified.
General exposures (open systems)with potential for aerosol generation.PROC4	Wear suitable gloves tested to EN374.
Bulk transfersDedicated facilityPROC8b	Wear suitable gloves tested to EN374.
Filling/ preparation of equipment from drums or containers.PROC8aPROC8b	Avoid carrying out activities involving exposure for more than 4 hours Wear suitable gloves tested to EN374.

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Initial factory fill of equipment Dedicated facility PROC9	Wear suitable gloves tested to EN374.
Operation and lubrication of high energy open equipment with potential for aerosol generation. PROC17 PROC18	Provide a good standard of general or controlled ventilation (5 to 15 air changes per hour). Wear suitable gloves tested to EN374.
Manual Rolling, Brushing PROC10	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.
Treatment by dipping and pouring PROC13	Ensure material transfers are under containment or extract ventilation. Allow time for product to drain from workpiece. Wear suitable gloves tested to EN374.
Spraying with potential for aerosol generation. PROC7	Minimise exposure by partial enclosure of the operation or equipment and provide extract ventilation at openings. Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.
Maintenance (of larger plant items) and machine set up Dedicated facility PROC8b	Provide extract ventilation to emission points when contact with warm (>50oC) product is likely. Wear suitable gloves tested to EN374.
Maintenance of small items Non-dedicated facility PROC8a	Wear suitable gloves tested to EN374. Avoid manual contact with wet work pieces.
Remanufacture of reject articles PROC9	Wear suitable gloves tested to EN374.
Storage. PROC1 PROC2	Store substance within a closed system.

<b>Section 2.2</b>	<b>Control of Environmental Exposure</b>
No exposure assessment presented for the environment.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.	

<b>Section 3.2 -Environment</b>	
No exposure assessment presented for the environment.	

<b>SECTION 4</b>	<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
<b>Section 4.1 - Health</b>	

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Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

### **Section 4.2 -Environment**

No exposure assessment presented for the environment.

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**Exposure Scenario - Worker**

<b>300000000502</b>	
<b>SECTION 1</b>	<b>EXPOSURE SCENARIO TITLE</b>
<b>Title</b>	Use in Agrochemicals uses- Professional
<b>Use Descriptor</b>	<b>Sector of Use:</b> SU 22 <b>Process Categories:</b> PROC 1, PROC 2, PROC 4, PROC 8a, PROC 8b, PROC 11, PROC 13 <b>Environmental Release Categories:</b> ERC8a, ERC8d
<b>Scope of process</b>	Use as an agrochemical excipient for application by manual or machine spraying, smokes and fogging; including equipment clean-downs and disposal.

<b>SECTION 2</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
<b>Additional Information</b>	No exposure assessment presented for the environment.

<b>Section 2.1</b>	<b>Control of Worker Exposure</b>
<b>Product Characteristics</b>	
Physical form of product	Liquid, vapour pressure < 0.5 kPa at STP
Concentration of the Substance in Mixture/Article	Covers use of substance/product up to 100% (unless stated differently).
<b>Frequency and Duration of Use</b>	
Covers daily exposures up to 8 hours (unless stated differently).	
<b>Other Operational Conditions affecting Exposure</b>	
Assumes a good basic standard of occupational hygiene is implemented. Assumes use at not more than 20°C above ambient temperature (unless stated differently).	

<b>Contributing Scenarios</b>	<b>Risk Management Measures</b>
General measures (eye irritants).	Use suitable eye protection. Avoid direct eye contact with product, also via contamination on hands.
Transfer from/pouring from containers PROC8b	Wear suitable gloves tested to EN374.
Mixing operations (open systems) PROC11	Wear suitable gloves tested to EN374.
Spraying/ fogging by manual application PROC11	Wear chemically resistant gloves (tested to EN374) in combination with specific activity training. Wear a respirator conforming to EN140 with Type A/P2 filter or better. Avoid carrying out operation for more than 4 hours. Ensure operation is undertaken outdoors.
Spraying/ fogging by	Apply within a vented cab supplied with filtered air under

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machine application PROC11	positive pressure and with a protection factor of >20.
Ad hoc manual application via trigger sprays, dipping, etc. PROC13	Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.
Equipment cleaning and maintenance PROC8a	Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.
Storage. PROC1 PROC2	Store substance within a closed system.

<b>Section 2.2</b>	<b>Control of Environmental Exposure</b>
No exposure assessment presented for the environment.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.	

<b>Section 3.2 -Environment</b>	
No exposure assessment presented for the environment.	

<b>SECTION 4</b>	<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
<b>Section 4.1 - Health</b>	
Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.	

<b>Section 4.2 -Environment</b>	
No exposure assessment presented for the environment.	



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<b>30000000505</b>	
<b>SECTION 1</b>	<b>EXPOSURE SCENARIO TITLE</b>
<b>Title</b>	Functional Fluids- Industrial
<b>Use Descriptor</b>	<b>Sector of Use:</b> SU 3 <b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9 <b>Environmental Release Categories:</b> ERC7
<b>Scope of process</b>	Use as functional fluids e.g. cable oils, transfer oils, coolants, insulators, refrigerants, hydraulic fluids in industrial equipment including maintenance and related material transfers.

<b>SECTION 2</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
<b>Additional Information</b>	No exposure assessment presented for the environment.

<b>Section 2.1</b>	<b>Control of Worker Exposure</b>
<b>Product Characteristics</b>	
Physical form of product	Liquid, vapour pressure < 0.5 kPa at STP
Concentration of the Substance in Mixture/Article	Covers use of substance/product up to 100% (unless stated differently).,
<b>Frequency and Duration of Use</b>	
Covers daily exposures up to 8 hours (unless stated differently).	
<b>Other Operational Conditions affecting Exposure</b>	
Assumes a good basic standard of occupational hygiene is implemented. Assumes use at not more than 20°C above ambient temperature (unless stated differently).	

<b>Contributing Scenarios</b>	<b>Risk Management Measures</b>
General measures (eye irritants).	Use suitable eye protection. Avoid direct eye contact with product, also via contamination on hands.
Bulk transfers(closed systems)PROC1PROC2PROC3	Wear suitable gloves tested to EN374.
Drum/batch transfersPROC8b	Wear suitable gloves tested to EN374.
Filling of articles/equipmentDedicated facilityPROC9	Wear suitable gloves tested to EN374.
ManualFilling/ preparation of equipment from drums or containers.PROC8a	Use drum pumps or carefully pour from container. Wear suitable gloves tested to EN374.
General exposures (closed systems)PROC2	No other specific measures identified.

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General exposures (open systems)PROC4	Wear suitable gloves tested to EN374.
General exposures (open systems)elevated temperaturewith potential for aerosol generation.PROC4	Provide extraction ventilation at points where emissions occur. Wear suitable gloves tested to EN374.
Remanufacture of reject articlesPROC9	No other specific measures identified.
Equipment maintenancePROC8a	Drain down system prior to equipment opening or maintenance. Wear suitable gloves tested to EN374.
Storage.PROC1PROC2	Store substance within a closed system.

<b>Section 2.2</b>	<b>Control of Environmental Exposure</b>
No exposure assessment presented for the environment.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.	

<b>Section 3.2 -Environment</b>	
No exposure assessment presented for the environment.	

<b>SECTION 4</b>	<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
<b>Section 4.1 - Health</b>	
Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.	

<b>Section 4.2 -Environment</b>	
No exposure assessment presented for the environment.	

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**Exposure Scenario - Worker**

<b>300000000508</b>	
<b>SECTION 1</b>	<b>EXPOSURE SCENARIO TITLE</b>
<b>Title</b>	Use in laboratories- Industrial
<b>Use Descriptor</b>	<b>Sector of Use:</b> SU 3 <b>Process Categories:</b> PROC 10, PROC 15 <b>Environmental Release Categories:</b> ERC2, ERC4
<b>Scope of process</b>	Use of the substance within laboratory settings, including material transfers and equipment cleaning.

<b>SECTION 2</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
<b>Additional Information</b>	No exposure assessment presented for the environment.

<b>Section 2.1</b>	<b>Control of Worker Exposure</b>
<b>Product Characteristics</b>	
Physical form of product	Liquid, vapour pressure < 0.5 kPa at STP
Concentration of the Substance in Mixture/Article	Covers use of substance/product up to 100% (unless stated differently).,
<b>Frequency and Duration of Use</b>	
Covers daily exposures up to 8 hours (unless stated differently).	
<b>Other Operational Conditions affecting Exposure</b>	
Assumes a good basic standard of occupational hygiene is implemented. Assumes use at not more than 20°C above ambient temperature (unless stated differently).	

<b>Contributing Scenarios</b>	<b>Risk Management Measures</b>
General measures (eye irritants).	Use suitable eye protection. Avoid direct eye contact with product, also via contamination on hands.
Laboratory activities PROC15	No other specific measures identified.
Cleaning PROC10	Wear suitable gloves tested to EN374.

<b>Section 2.2</b>	<b>Control of Environmental Exposure</b>
No exposure assessment presented for the environment.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.	

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<b>Section 3.2 -Environment</b>
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No exposure assessment presented for the environment.
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<b>SECTION 4</b>	<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
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<b>Section 4.1 - Health</b>
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Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.
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<b>Section 4.2 -Environment</b>
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No exposure assessment presented for the environment.
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**Exposure Scenario - Worker**

<b>300000000509</b>	
<b>SECTION 1</b>	<b>EXPOSURE SCENARIO TITLE</b>
<b>Title</b>	Use in laboratories- Professional
<b>Use Descriptor</b>	<b>Sector of Use:</b> SU 22 <b>Process Categories:</b> PROC 10, PROC 15 <b>Environmental Release Categories:</b> ERC8a
<b>Scope of process</b>	Use of small quantities within laboratory settings, including material transfers and equipment cleaning.

<b>SECTION 2</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
<b>Additional Information</b>	No exposure assessment presented for the environment.

<b>Section 2.1</b>	<b>Control of Worker Exposure</b>
<b>Product Characteristics</b>	
Physical form of product	Liquid, vapour pressure < 0.5 kPa at STP
Concentration of the Substance in Mixture/Article	Covers use of substance/product up to 100% (unless stated differently).,
<b>Frequency and Duration of Use</b>	
Covers daily exposures up to 8 hours (unless stated differently).	
<b>Other Operational Conditions affecting Exposure</b>	
Assumes a good basic standard of occupational hygiene is implemented. Assumes use at not more than 20°C above ambient temperature (unless stated differently).	

<b>Contributing Scenarios</b>	<b>Risk Management Measures</b>
General measures (eye irritants).	Use suitable eye protection. Avoid direct eye contact with product, also via contamination on hands.
Laboratory activities PROC15	No other specific measures identified.
Cleaning PROC10	Wear suitable gloves tested to EN374.

<b>Section 2.2</b>	<b>Control of Environmental Exposure</b>
No exposure assessment presented for the environment.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.	

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<b>Section 3.2 -Environment</b>
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No exposure assessment presented for the environment.
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<b>SECTION 4</b>	<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
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<b>Section 4.1 - Health</b>
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Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.
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<b>Section 4.2 -Environment</b>
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No exposure assessment presented for the environment.
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**Exposure Scenario - Worker**

<b>300000000511</b>	
<b>SECTION 1</b>	<b>EXPOSURE SCENARIO TITLE</b>
<b>Title</b>	Water treatment chemicals- Industrial
<b>Use Descriptor</b>	<b>Sector of Use:</b> SU 3 <b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 13 <b>Environmental Release Categories:</b> ERC3, ERC4
<b>Scope of process</b>	Covers the use of the substance for the treatment of water at industrial facilities in open and closed systems.

<b>SECTION 2</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
<b>Additional Information</b>	No exposure assessment presented for the environment.

<b>Section 2.1</b>	<b>Control of Worker Exposure</b>
<b>Product Characteristics</b>	
Physical form of product	Liquid, vapour pressure < 0.5 kPa at STP
Concentration of the Substance in Mixture/Article	Covers use of substance/product up to 100% (unless stated differently).,
<b>Frequency and Duration of Use</b>	
Covers daily exposures up to 8 hours (unless stated differently).	
<b>Other Operational Conditions affecting Exposure</b>	
Assumes a good basic standard of occupational hygiene is implemented. Assumes use at not more than 20°C above ambient temperature (unless stated differently).	

<b>Contributing Scenarios</b>	<b>Risk Management Measures</b>
Bulk transfers(closed systems)PROC2	Transfer via enclosed lines. Clear transfer lines prior to de-coupling.
Drum/batch transfersDedicated facilityPROC8b	Use drum pumps or carefully pour from container. Wear suitable gloves tested to EN374.
General exposures (closed systems)Use in contained batch processesPROC3	No other specific measures identified.
General exposures (open systems)PROC4	Wear suitable gloves tested to EN374.
Pouring from small containersPROC13	Avoid carrying out operation for more than 1 hour. Wear suitable gloves tested to EN374.
Equipment maintenancePROC8a	Drain or remove substance from equipment prior to break-in or maintenance. Wear suitable gloves tested to EN374.

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Storage.PROC1	Store substance within a closed system.
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<b>Section 2.2</b>	<b>Control of Environmental Exposure</b>
No exposure assessment presented for the environment.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.	

<b>Section 3.2 -Environment</b>	
No exposure assessment presented for the environment.	

<b>SECTION 4</b>	<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
<b>Section 4.1 - Health</b>	
Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.	

<b>Section 4.2 -Environment</b>	
No exposure assessment presented for the environment.	



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**Exposure Scenario - Consumer**

<b>300000001053</b>	
<b>SECTION 1</b>	<b>EXPOSURE SCENARIO TITLE</b>
<b>Title</b>	Uses in Coatings - Consumer
<b>Use Descriptor</b>	<b>Sector of Use:</b> SU 21 <b>Product Categories:</b> PC1, PC4, PC8 (excipient only), PC9a, PC9b, PC9c, PC15, PC18, PC23, PC24, PC31, PC34 <b>Environmental Release Categories:</b> ERC8a, ERC8d
<b>Scope of process</b>	Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including product transfer and preparation, application by brush, spray by hand or similar methods) and equipment cleaning.

<b>SECTION 2</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
<b>Additional Information</b>	No exposure assessment presented for the environment.

<b>Section 2.1</b>	<b>Control of Consumer Exposure</b>
<b>Product Characteristics</b>	
Physical form of product	Liquid, vapour pressure > 10 Pa
Concentration of the Substance in Mixture/Article	Covers concentration up to (%): 100 %
<b>Amounts Used</b>	
for each use event, covers amount up to (g):	13.800
covers skin contact area (cm <sup>2</sup> ):	857,5
<b>Frequency and Duration of Use</b>	
covers use up to (times/day of use):	1
Covers use up to (hours/event):	6
<b>Other Operational Conditions affecting Exposure</b>	
Covers use at ambient temperatures.	
Covers use in room size of 20m <sup>3</sup>	
Covers use under typical household ventilation.	

<b>Product Categories</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
Adhesives, sealants Glues, hobby use.	Covers concentrations up to 10 %
	covers use up to 365 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to 35,73 cm <sup>2</sup>
	For each use event, covers amount up to 5 g
	Covers use in room size of 20 m <sup>3</sup>

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	Covers exposure up to 4,00 hours/event
Adhesives, sealants Glues DIY-use (carpet glue, tile glue, wood parquet glue).	Covers concentrations up to 30 %
	covers use up to 1 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to 110,00 cm <sup>2</sup>
	For each use event, covers amount up to 6.390 g
	Covers use in room size of 20 m <sup>3</sup>
	Covers exposure up to 6,00 hours/event
Adhesives, sealants Glue from spray.	Covers concentrations up to 30 %
	covers use up to 6 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to 35,73 cm <sup>2</sup>
	For each use event, covers amount up to 85,05 g
	Covers use in room size of 20 m <sup>3</sup>
	Covers exposure up to 4,00 hours/event
Adhesives, sealants Sealants.	Covers concentrations up to 5,5 %
	covers use up to 365 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to 35,73 cm <sup>2</sup>
	For each use event, covers amount up to 75 g
	Covers use in room size of 20 m <sup>3</sup>
	Covers exposure up to 1,00 hours/event
	Avoid using when windows closed.
Anti-Freeze and de-icing products Washing car window.	Covers concentrations up to 1 %
	covers use up to 365 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to 857,50 cm <sup>2</sup>
	For each use event, covers amount up to 0,5 g
	Covers use in a one car garage (34 m <sup>3</sup> ) under typical ventilation.
	Covers use in room size of 34 m <sup>3</sup>
	Covers exposure up to 0,02 hours/event
Anti-Freeze and de-icing products Pouring into radiator.	Covers concentrations up to 1,2 %
	covers use up to 365 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to 428,00 cm <sup>2</sup>
	For each use event, covers amount up to 2.000 g
	Covers use in a one car garage (34 m <sup>3</sup> ) under typical ventilation.
	Covers use in room size of 34 m <sup>3</sup>
	Covers exposure up to 0,17 hours/event
Anti-Freeze and de-icing products Lock de-icer.	Covers concentrations up to 2,5 %

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	covers use up to 365 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to 214,40 cm <sup>2</sup>
	For each use event, covers amount up to 4 g
	Covers use in a one car garage (34 m <sup>3</sup> ) under typical ventilation.
	Covers use in room size of 34 m <sup>3</sup>
	Covers exposure up to 0,25 hours/event
Biocidal products (e.g. Disinfectants, pest control) (excipient only).	Covers concentrations up to 5 %
Laundry and dish washing products.	covers use up to 365 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to 857,50 cm <sup>2</sup>
	For each use event, covers amount up to 15 g
	Covers use in room size of 20 m <sup>3</sup>
	Covers exposure up to 0,50 hours/event
Biocidal products (e.g. Disinfectants, pest control) (excipient only).	Covers concentrations up to 5 %
Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners).	covers use up to 128 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to 857,50 cm <sup>2</sup>
	For each use event, covers amount up to 27 g
	Covers use in room size of 20 m <sup>3</sup>
	Covers exposure up to 0,33 hours/event
Biocidal products (e.g. Disinfectants, pest control) (excipient only).	Covers concentrations up to 3,45 %
Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners).	covers use up to 128 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to 428,00 cm <sup>2</sup>
	For each use event, covers amount up to 35 g
	Covers use in room size of 20 m <sup>3</sup>
	Covers exposure up to 0,17 hours/event
Coatings and paints, thinners, paint removers Waterborne latex wall paint.	Covers concentrations up to 1,5 %
	covers use up to 4 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to 428,75 cm <sup>2</sup>
	For each use event, covers amount up to 2.760 g
	Covers use in room size of 20 m <sup>3</sup>

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	Covers exposure up to 2,20 hours/event
Coatings and paints, thinners, paint removers Solvent rich, high solid, water borne paint.	Covers concentrations up to 27,5 %
	covers use up to 6 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to 428,75 cm <sup>2</sup>
	For each use event, covers amount up to 744 g
	Covers use in room size of 20 m <sup>3</sup>
	Covers exposure up to 2,20 hours/event
Coatings and paints, thinners, paint removers Aerosol spray can.	Covers concentrations up to 50 %
	covers use up to 2 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to 857,50 cm <sup>2</sup>
	For each use event, covers amount up to 215 g
	Covers use in a one car garage (34 m <sup>3</sup> ) under typical ventilation.
	Covers use in room size of 34 m <sup>3</sup>
	Covers exposure up to 0,33 hours/event
Coatings and paints, thinners, paint removers Removers (paint-, glue-, wall paper-, sealant-remover).	Covers concentrations up to 50 %
	covers use up to 3 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to 857,50 cm <sup>2</sup>
	For each use event, covers amount up to 491 g
	Covers use in room size of 20 m <sup>3</sup>
	Covers exposure up to 2,00 hours/event
Fillers, Putties Fillers and putty.	Covers concentrations up to 2 %
	covers use up to 12 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to 35,73 cm <sup>2</sup>
	For each use event, covers amount up to 85 g
	Covers use in room size of 20 m <sup>3</sup>
	Covers exposure up to 4,00 hours/event
Fillers, Putties Plasters and floor equalizers.	Covers concentrations up to 1,2 %
	covers use up to 12 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to 857,50 cm <sup>2</sup>
	For each use event, covers amount up to 13.800 g
	Covers use in room size of 20 m <sup>3</sup>
	Covers exposure up to 2,00 hours/event
	Avoid using when windows closed.
Fillers, Putties Modelling	Covers concentrations up to 1 %

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clay.	
	covers use up to 365 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to 254,40 cm <sup>2</sup>
	For each use event, assumes swallowed amount of 1 g
	Covers use in room size of 20 m <sup>3</sup>
	Covers exposure up to 2,20 hours/event
Finger paints	Covers concentrations up to 0,25 %
	covers use up to 365 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to 254,40 cm <sup>2</sup>
	For each use event, assumes swallowed amount of 1,35 g
	Covers use in room size of 20 m <sup>3</sup>
	Covers exposure up to 2,20 hours/event
Non-metal-surface treatment products Waterborne latex wall paint.	Covers concentrations up to 1,5 %
	covers use up to 4 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to 428,75 cm <sup>2</sup>
	For each use event, covers amount up to 2.760 g
	Covers use in room size of 20 m <sup>3</sup>
	Covers exposure up to 2,20 hours/event
Non-metal-surface treatment products Solvent rich, high solid, water borne paint.	Covers concentrations up to 27,5 %
	covers use up to 6 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to 428,75 cm <sup>2</sup>
	For each use event, covers amount up to 744 g
	Covers use in room size of 20 m <sup>3</sup>
	Covers exposure up to 2,20 hours/event
Non-metal-surface treatment products Aerosol spray can.	Covers concentrations up to 50 %
	covers use up to 2 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to 857,50 cm <sup>2</sup>
	For each use event, covers amount up to 215 g
	Covers use in a one car garage (34 m <sup>3</sup> ) under typical ventilation.
	Covers use in room size of 34 m <sup>3</sup>
	Covers exposure up to 0,33 hours/event
Non-metal-surface treatment products Removers (paint-, glue-, wall paper-, sealant-remover).	Covers concentrations up to 50 %
	covers use up to 3 day/year
	Covers use up to 1 times/day of use

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	covers skin contact area up to 857,50 cm <sup>2</sup>
	For each use event, covers amount up to 491 g
	Covers use in room size of 20 m <sup>3</sup>
	Covers exposure up to 2,00 hours/event
Ink and toners	Covers concentrations up to 3 %
	covers use up to 365 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to 71,40 cm <sup>2</sup>
	For each use event, covers amount up to 40 g
	Covers use in room size of 20 m <sup>3</sup>
	Covers exposure up to 2,20 hours/event
Leather tanning, dye, finishing, impregnation and care products Polishes, wax / cream (floor, furniture, shoes).	Covers concentrations up to 10 %
	covers use up to 29 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to 430,00 cm <sup>2</sup>
	For each use event, covers amount up to 56 g
	Covers use in room size of 20 m <sup>3</sup>
	Covers exposure up to 1,23 hours/event
Leather tanning, dye, finishing, impregnation and care products Polishes, spray (furniture, shoes).	Covers concentrations up to 50 %
	covers use up to 8 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to 430,00 cm <sup>2</sup>
	For each use event, covers amount up to 56 g
	Covers use in room size of 20 m <sup>3</sup>
	Covers exposure up to 0,33 hours/event
Lubricants, greases, release products Liquids.	Covers concentrations up to 100 %
	covers use up to 4 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to 468,00 cm <sup>2</sup>
	For each use event, covers amount up to 2.200 g
	Covers use in a one car garage (34 m <sup>3</sup> ) under typical ventilation.
	Covers use in room size of 34 m <sup>3</sup>
	Covers exposure up to 0,17 hours/event
Lubricants, greases, release products Pastes.	Covers concentrations up to 20 %
	covers use up to 10 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to 468,00 cm <sup>2</sup>
	For each use event, covers amount up to 34 g
	Covers use in room size of 20 m <sup>3</sup>
Lubricants, greases, release products Sprays.	Covers concentrations up to 50 %

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	covers use up to 6 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to 428,75 cm <sup>2</sup>
	For each use event, covers amount up to 73 g
	Covers use in room size of 20 m <sup>3</sup>
	Covers exposure up to 0,17 hours/event
Polishes and wax blends Polishes, wax / cream (floor, furniture, shoes).	Covers concentrations up to 10 %
	covers use up to 29 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to 430,00 cm <sup>2</sup>
	For each use event, covers amount up to 142 g
	Covers use in room size of 20 m <sup>3</sup>
	Covers exposure up to 1,23 hours/event
Polishes and wax blends Polishes, spray (furniture, shoes).	Covers concentrations up to 50 %
	covers use up to 8 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to 430,00 cm <sup>2</sup>
	For each use event, covers amount up to 35 g
	Covers use in room size of 20 m <sup>3</sup>
	Covers exposure up to 0,33 hours/event
Textile dyes, finishing and impregnating products; including bleaches and other processing aids	Covers concentrations up to 2,5 %
	covers use up to 365 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to 857,50 cm <sup>2</sup>
	For each use event, covers amount up to 115 g
	Covers use in room size of 20 m <sup>3</sup>
	Covers exposure up to 1,00 hours/event

<b>Section 2.2</b>	<b>Control of Environmental Exposure</b>
No exposure assessment presented for the environment.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
The ECETOC TRA tool has been used to estimate consumer exposures unless otherwise indicated.	

<b>Section 3.2 -Environment</b>	
No exposure assessment presented for the environment.	

<b>SECTION 4</b>	<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
<b>Section 4.1 - Health</b>	

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Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

### **Section 4.2 -Environment**

No exposure assessment presented for the environment.



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**Exposure Scenario - Consumer**

<b>300000001054</b>	
<b>SECTION 1</b>	<b>EXPOSURE SCENARIO TITLE</b>
<b>Title</b>	Use in Cleaning Agents - Consumer
<b>Use Descriptor</b>	<b>Sector of Use:</b> SU 21 <b>Product Categories:</b> PC3, PC4, PC8 (excipient only), PC9a, PC24, PC35, <b>Environmental Release Categories:</b> ERC8a, ERC8d
<b>Scope of process</b>	Covers general exposures to consumers arising from the use of household products sold as washing and cleaning products, aerosols, coatings, de-icers, lubricants and air care products.

<b>SECTION 2</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
<b>Additional Information</b>	No exposure assessment presented for the environment.

<b>Section 2.1</b>	<b>Control of Consumer Exposure</b>
<b>Product Characteristics</b>	
Physical form of product	Liquid, vapour pressure > 10 Pa
Concentration of the Substance in Mixture/Article	Covers concentration up to (%): 100 %
<b>Amounts Used</b>	
for each use event, covers amount up to (g):	13.800
covers skin contact area (cm <sup>2</sup> ):	857,5
<b>Frequency and Duration of Use</b>	
covers use up to (times/day of use):	4
Covers use up to (hours/event):	8
<b>Other Operational Conditions affecting Exposure</b>	
Covers use at ambient temperatures.	
Covers use in room size of 20m <sup>3</sup>	
Covers use under typical household ventilation.	

<b>Product Categories</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
Air care products Air care, instant action (aerosol sprays).	Covers concentrations up to 50 %
	covers use up to 365 day/year
	Covers use up to 4 times/day of use
	For each use event, covers amount up to 0,1 g
	Covers use in room size of 20 m <sup>3</sup>

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	Covers exposure up to 0,25 hours/event
Air care products Air care, continuous action (solid and liquid).	Covers concentrations up to 10 %
	covers use up to 365 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to 35,70 cm <sup>2</sup>
	For each use event, covers amount up to 0,48 g
	Covers use in room size of 20 m <sup>3</sup>
	Covers exposure up to 8,00 hours/event
Anti-Freeze and de-icing products Washing car window.	Covers concentrations up to 1 %
	covers use up to 365 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to 857,50 cm <sup>2</sup>
	For each use event, covers amount up to 0,5 g
	Covers use in a one car garage (34 m <sup>3</sup> ) under typical ventilation.
	Covers use in room size of 34 m <sup>3</sup>
	Covers exposure up to 0,02 hours/event
Anti-Freeze and de-icing products Pouring into radiator.	Covers concentrations up to 1,2 %
	covers use up to 365 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to 428,00 cm <sup>2</sup>
	For each use event, covers amount up to 2.000 g
	Covers use in a one car garage (34 m <sup>3</sup> ) under typical ventilation.
	Covers use in room size of 34 m <sup>3</sup>
	Covers exposure up to 0,17 hours/event
Anti-Freeze and de-icing products Lock de-icer.	Covers concentrations up to 2,5 %
	covers use up to 365 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to 214,40 cm <sup>2</sup>
	For each use event, covers amount up to 4 g
	Covers use in a one car garage (34 m <sup>3</sup> ) under typical ventilation.
	Covers use in room size of 34 m <sup>3</sup>
	Covers exposure up to 0,25 hours/event
Biocidal products (e.g. Disinfectants, pest control) (excipient only).	Covers concentrations up to 5 %
Laundry and dish washing products.	covers use up to 365 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to 857,50 cm <sup>2</sup>
	For each use event, covers amount up to 15 g
	Covers use in room size of 20 m <sup>3</sup>

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	Covers exposure up to 0,50 hours/event
Biocidal products (e.g. Disinfectants, pest control) (excipient only).	Covers concentrations up to 5 %
Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners).	covers use up to 128 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to 857,50 cm <sup>2</sup>
	For each use event, covers amount up to 27 g
	Covers use in room size of 20 m <sup>3</sup>
	Covers exposure up to 0,33 hours/event
Biocidal products (e.g. Disinfectants, pest control) (excipient only).	Covers concentrations up to 3,5 %
Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners).	covers use up to 128 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to 428,00 cm <sup>2</sup>
	For each use event, covers amount up to 35 g
	Covers use in room size of 20 m <sup>3</sup>
	Covers exposure up to 0,17 hours/event
Coatings and paints, thinners, paint removers Waterborne latex wall paint.	Covers concentrations up to 1,5 %
	covers use up to 4 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to 428,75 cm <sup>2</sup>
	For each use event, covers amount up to 2.760 g
	Covers use in room size of 20 m <sup>3</sup>
	Covers exposure up to 2,20 hours/event
Coatings and paints, thinners, paint removers Solvent rich, high solid, water borne paint.	Covers concentrations up to 27,5 %
	covers use up to 6 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to 428,75 cm <sup>2</sup>
	For each use event, covers amount up to 744 g
	Covers use in room size of 20 m <sup>3</sup>
	Covers exposure up to 2,20 hours/event
Coatings and paints, thinners, paint removers Aerosol spray can.	Covers concentrations up to 50 %
	covers use up to 2 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to 857,50 cm <sup>2</sup>

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	For each use event, covers amount up to 215 g
	Covers use in a one car garage (34 m <sup>3</sup> ) under typical ventilation.
	Covers use in room size of 34 m <sup>3</sup>
	Covers exposure up to 0,33 hours/event
Coatings and paints, thinners, paint removers Removers (paint-, glue-, wall paper-, sealant-remover).	Covers concentrations up to 50 %
	covers use up to 3 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to 857,50 cm <sup>2</sup>
	For each use event, covers amount up to 491 g
	Covers use in room size of 20 m <sup>3</sup>
	Covers exposure up to 2,00 hours/event
Fillers, Putties Fillers and putty.	Covers concentrations up to 2 %
	covers use up to 12 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to 35,73 cm <sup>2</sup>
	For each use event, covers amount up to 85 g
	Covers use in room size of 20 m <sup>3</sup>
	Covers exposure up to 4,00 hours/event
Fillers, Putties Plasters and floor equalizers.	Covers concentrations up to 1,2 %
	covers use up to 12 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to 857,50 cm <sup>2</sup>
	For each use event, covers amount up to 13.800 g
	Covers use in room size of 20 m <sup>3</sup>
	Covers exposure up to 2,00 hours/event
	Avoid using when windows closed.
Fillers, Putties Modelling clay.	Covers concentrations up to 1 %
	covers use up to 365 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to 254,40 cm <sup>2</sup>
	For each use event, assumes swallowed amount of 1 g
	Covers use in room size of 20 m <sup>3</sup>
Finger paints	Covers concentrations up to 0,25 %
	covers use up to 365 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to 254,40 cm <sup>2</sup>
	For each use event, assumes swallowed amount of 1,35 g
	Covers use in room size of 20 m <sup>3</sup>
	Covers exposure up to 8 hours/event
Lubricants, greases, release products Liquids.	Covers concentrations up to 100 %
	covers use up to 4 day/year
	Covers use up to 1 times/day of use

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	covers skin contact area up to 468,00 cm <sup>2</sup>
	For each use event, covers amount up to 2.200 g
	Covers use in a one car garage (34 m <sup>3</sup> ) under typical ventilation.
	Covers use in room size of 34 m <sup>3</sup>
	Covers exposure up to 0,17 hours/event
Lubricants, greases, release products Pastes.	Covers concentrations up to 20 %
	covers use up to 10 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to 468,00 cm <sup>2</sup>
	For each use event, covers amount up to 34 g
	Covers use in room size of 20 m <sup>3</sup>
	Covers exposure up to 8,00 hours/event
Lubricants, greases, release products Sprays.	Covers concentrations up to 50 %
	covers use up to 6 day/year
	Covers use up to 1 times/day of use
	covers use up to 428,75 cm <sup>2</sup>
	For each use event, covers amount up to 73 g
	Covers use in room size of 20 m <sup>3</sup>
	Covers exposure up to 0,17 hours/event
Washing and cleaning products (including solvent based products) Laundry and dish washing products.	Covers concentrations up to 5 %
	covers use up to 365 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to 857,50 cm <sup>2</sup>
	For each use event, covers amount up to 15 g
	Covers use in room size of 20 m <sup>3</sup>
	Covers exposure up to 0,50 hours/event
Washing and cleaning products (including solvent based products) Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners).	Covers concentrations up to 5 %
	covers use up to 128 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to 857,50 cm <sup>2</sup>
	For each use event, covers amount up to 27 g
	Covers use in room size of 20 m <sup>3</sup>
	Covers exposure up to 0,33 hours/event
Washing and cleaning products (including solvent based products) Cleaners, trigger sprays (all purpose cleaners, sanitary products,	Covers concentrations up to 3,5 %

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glass cleaners).	
	covers use up to 128 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to 428,00 cm <sup>2</sup>
	For each use event, covers amount up to 35 g
	Covers use in room size of 20 m <sup>3</sup>
	Covers exposure up to 0,17 hours/event
Welding and soldering products (with flux coatings or flux cores.), flux products	Covers concentrations up to 20 %
	covers use up to 365 day/year
	Covers use up to 1 times/day of use
	For each use event, covers amount up to 12 g
	Covers use in room size of 20 m <sup>3</sup>
	Covers exposure up to 1,00 hours/event
	No specific risk management measure identified beyond those operational conditions stated.

<b>Section 2.2</b>	<b>Control of Environmental Exposure</b>
No exposure assessment presented for the environment.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
The ECETOC TRA tool has been used to estimate consumer exposures unless otherwise indicated.	

<b>Section 3.2 -Environment</b>	
No exposure assessment presented for the environment.	

<b>SECTION 4</b>	<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
<b>Section 4.1 - Health</b>	
Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.	

<b>Section 4.2 -Environment</b>	
No exposure assessment presented for the environment.	

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**Exposure Scenario - Consumer**

<b>300000001056</b>	
<b>SECTION 1</b>	<b>EXPOSURE SCENARIO TITLE</b>
<b>Title</b>	Use in Agrochemicals uses - Consumer
<b>Use Descriptor</b>	<b>Sector of Use:</b> SU 21 <b>Product Categories:</b> PC12, PC27 <b>Environmental Release Categories:</b> ERC8a, ERC8d
<b>Scope of process</b>	Covers the consumer use in agrochemicals in liquid and solid forms.

<b>SECTION 2</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
<b>Additional Information</b>	No exposure assessment presented for the environment.

<b>Section 2.1</b>	<b>Control of Consumer Exposure</b>
<b>Product Characteristics</b>	
Physical form of product	Liquid, vapour pressure > 10 Pa
Concentration of the Substance in Mixture/Article	Covers concentration up to (%): 5 %
<b>Amounts Used</b>	
for each use event, covers amount up to (g):	27
<b>Frequency and Duration of Use</b>	
covers use up to (times/day of use):	1
Covers use up to (hours/event):	8
covers skin contact area (cm <sup>2</sup> ):	857,50
<b>Other Operational Conditions affecting Exposure</b>	
Covers use at ambient temperatures.	
Covers use in room size of 20m <sup>3</sup>	
Covers use under typical household ventilation.	

<b>Product Categories</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
Fertilizers Lawn and garden preparations.	Covers concentrations up to 5 %
	covers use up to 365 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to 857,50 cm <sup>2</sup>
	For each use event, assumes swallowed amount of 0,3 g
	Covers use in room size of 20 m <sup>3</sup>
	Covers exposure up to 8,00 hours/event
Plant protection products	Covers concentrations up to 5 %
	covers use up to 365 day/year

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	Covers use up to 1 times/day of use
	covers skin contact area up to 857,50 cm <sup>2</sup>
	For each use event, assumes swallowed amount of 0,3 g
	Covers use in room size of 20 m <sup>3</sup>
	Covers exposure up to 8,00 hours/event

<b>Section 2.2</b>	<b>Control of Environmental Exposure</b>
No exposure assessment presented for the environment.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
The ECETOC TRA tool has been used to estimate consumer exposures unless otherwise indicated.	

<b>Section 3.2 -Environment</b>	
No exposure assessment presented for the environment.	

<b>SECTION 4</b>	<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
<b>Section 4.1 - Health</b>	
Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.	

<b>Section 4.2 -Environment</b>	
No exposure assessment presented for the environment.	



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**Exposure Scenario - Consumer**

<b>300000001099</b>	
<b>SECTION 1</b>	<b>EXPOSURE SCENARIO TITLE</b>
<b>Title</b>	Other Consumer Uses - Consumer
<b>Use Descriptor</b>	<b>Sector of Use:</b> SU 21 <b>Product Categories:</b> PC28, PC39 <b>Environmental Release Categories:</b> ERC8a, ERC8d
<b>Scope of process</b>	Consumer uses e.g. as a carrier in cosmetics/personal care products, perfumes and fragrances. Note: For cosmetic and personal care products, risk assessment only required for the environment under REACH as human health is covered by alternative legislation.

<b>SECTION 2</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
<b>Additional Information</b>	No exposure assessment presented for human health. No exposure assessment presented for the environment.

<b>Section 2.1</b>	<b>Control of Consumer Exposure</b>
<b>Product Characteristics</b>	

<b>Product Categories</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
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<b>Section 2.2</b>	<b>Control of Environmental Exposure</b>
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<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
No exposure assessment presented for human health.	

<b>Section 3.2 -Environment</b>	
No exposure assessment presented for the environment.	

<b>SECTION 4</b>	<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
<b>Section 4.1 - Health</b>	
No exposure assessment presented for human health.	

<b>Section 4.2 -Environment</b>	
No exposure assessment presented for the environment.	

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