

# SAFETY DATA SHEET



n-Butyl acetate  
10430

Version / Revision  
Supersedes Version

3 .00  
2 .00\*\*\*

Revision Date  
Issuing date

16-Sep-2016  
16-Sep-2016

## SECTION 1: Identification

### 1.1. Product identifier

Identification of the  
substance/preparation

**n-Butyl acetate**

CAS-No

123-86-4

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

Use of the Substance /  
Preparation

solvent

Uses advised against

None

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

Supplier

**OXEA Corporation**  
1505 West LBJ Freeway, Suite 400  
Dallas, TX 75234  
USA  
Phone: +1 972 481 2700

Product Information

Product Stewardship  
FAX: +49 (0)208 693 2053  
email: psq@oxea-chemicals.com

### 1.4. Emergency telephone number

Emergency telephone number

in USA, call 800 424 9300  
outside USA, call 703 527 3887, collect calls accepted  
available 24/7

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

This substance is classified in accordance with paragraph (d) of §1910.1200 (GHS-US classification).

Target Organ Systemic Toxicant - Single exposure Category 3, H336

Flammable liquid Category 3, H226

Environmental hazard Aquatic Acute 3; H402

OSHA Specified Hazards

Not applicable.

### 2.2. Label elements

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Labeling according to §1910.1200 (GHS-US labeling).

Hazard symbol(s)



Signal word

**Warning**

Hazard statements

H226: Flammable liquid and vapor.  
H336: May cause drowsiness or dizziness.  
H402: Harmful to aquatic life

Precautionary statements

Prevention

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233: Keep container tightly closed.  
P240: Ground and bond container and receiving equipment.  
P241: Use explosion-proof electrical/ ventilating/ lighting equipment.  
P242: Use non-sparking tools.  
P243: Take action to prevent static discharges.  
P261: Avoid breathing gas/mist/vapours.  
P271: Use only outdoors or in a well ventilated area.  
P273: Avoid release to the environment.  
P280: Wear protective gloves/eye protection/face protection.\*\*\*

Response

P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P312: Call a POISON CENTRE/doctor if you feel unwell.

Storage

P403 + P235: Store in a well ventilated place. Keep cool.  
P405: Store locked up.

Disposal

P501: Dispose of contents/container in accordance with local regulation.

## 2.3. Other hazards

Vapour is heavier than air and can travel considerable distance to a source of ignition and flashback  
Vapours may form explosive mixture with air  
Components of the product may be absorbed into the body by inhalation  
Repeated exposure may cause skin dryness or cracking

## SECTION 3: Composition / information on ingredients

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## 3.1. Substances

Component	CAS-No	Concentration (%)
n-Butyl acetate	123-86-4	> 99,0

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Inhalation

Keep at rest. Aerate with fresh air. When symptoms persist or in all cases of doubt seek medical advice.

#### Skin

Wash off immediately with soap and plenty of water. When symptoms persist or in all cases of doubt seek medical advice.

#### Eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.

#### Ingestion

Call a physician immediately. Do not induce vomiting without medical advice.

### 4.2. Most important symptoms and effects, both acute and delayed

#### Main symptoms

cough, nausea, vomiting, headache, unconsciousness, shortness of breath, dizziness, narcosis.

#### Special hazard

Lung oedema, central nervous system effects, Prolonged skin contact may defat the skin and produce dermatitis.

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

#### General advice

Remove contaminated, soaked clothing immediately and dispose of safely. First aider needs to protect himself.

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

foam, dry chemical, carbon dioxide (CO<sub>2</sub>), water spray

#### Unsuitable Extinguishing Media

Do not use a solid water stream as it may scatter and spread fire.

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

Under conditions giving incomplete combustion, hazardous gases produced may consist of:  
carbon monoxide (CO)  
carbon dioxide (CO<sub>2</sub>)  
Combustion gases of organic materials must in principle be graded as inhalation poisons  
Vapour is heavier than air and can travel considerable distance to a source of ignition and flashback  
Vapours may form explosive mixture with air

## 5.3. Advice for firefighters

### Special protective equipment for firefighters

Fire fighter protection should include a self-contained breathing apparatus (NIOSH-approved or EN 133) and full fire-fighting turn out gear.

### Precautions for firefighting

Cool containers / tanks with water spray. Dike and collect water used to fight fire. Keep people away from and upwind of fire.

## SECTION 6: Accidental release measures

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

For non-emergency personnel: For personal protective equipment see section 8. Avoid contact with skin and eyes. Avoid breathing vapors or mists. Keep people away from and upwind of spill/leak. Ensure adequate ventilation, especially in confined areas. Keep away from heat and sources of ignition.  
For emergency responders: Personal protection see section 8.\*\*\*

### 6.2. Environmental precautions

Prevent further leakage or spillage. Do not discharge product into the aquatic environment without pretreatment (biological treatment plant).

### 6.3. Methods and material for containment and cleaning up

#### Methods for containment

Stop the flow of material, if possible without risk. Dike spilled material, where this is possible.

#### Methods for cleaning up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. If liquid has been spilt in large quantities clean up promptly by scoop or vacuum. Dispose of in accordance with local regulations. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).

### 6.4. Reference to other sections

For personal protective equipment see section 8.

## SECTION 7: Handling and storage

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## 7.1. Precautions for safe handling

### Advice on safe handling

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Provide sufficient air exchange and/or exhaust in work rooms.

### Hygiene measures

When using, do not eat, drink or smoke. Take off all contaminated clothing immediately. Wash hands before breaks and immediately after handling the product.

### Advice on the protection of the environment

See Section 8: Environmental exposure controls.

### Incompatible products

strong acids and strong bases  
strong oxidizing agents

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

### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). In case of fire, emergency cooling with water spray should be available. Ground and bond containers when transferring material. Vapour is heavier than air and can travel considerable distance to a source of ignition and flashback. Vapours may form explosive mixture with air.

### Technical measures/Storage conditions

Keep containers tightly closed in a cool, well-ventilated place. Handle and open container with care.

### Suitable material

stainless steel, mild steel, aluminium

### Unsuitable material

copper, Attacks some forms of plastic and rubber

## SECTION 8: Exposure controls / personal protection

### 8.1. Control parameters

#### Exposure limits United States of America

#### US ACGIH

Component	TWA (mg/m <sup>3</sup> )	TWA (ppm)	STEL (mg/m <sup>3</sup> )	STEL (ppm)
n-Butyl acetate CAS: 123-86-4		50***		150***

#### US OSHA Z-1

Component	Ceiling (mg/m <sup>3</sup> )	Ceiling (ppm)	PEL (mg/m <sup>3</sup> )	PEL (ppm)	Skin Designation
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n-Butyl acetate CAS: 123-86-4			710***	150***	
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## Note

For details and further information please refer to the original regulation.

## 8.2. Exposure controls

### Appropriate Engineering controls

General or dilution ventilation is frequently insufficient as the sole means of controlling employee exposure. Local ventilation is usually preferred. Explosion-proof equipment (for example fans, switches, and grounded ducts) should be used in mechanical ventilation systems.

### Individual protection measures, such as personal protective equipment

#### General industrial hygiene practice

Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Hygiene measures

When using, do not eat, drink or smoke. Take off all contaminated clothing immediately. Wash hands before breaks and immediately after handling the product.

#### Eye protection

Tightly fitting safety goggles. In addition to goggles, wear a face shield if there is a reasonable chance for splash to the face.

#### Hand protection

Wear protective gloves. Recommendations are listed below. Other protective material may be used, depending on the situation, if adequate degradation and permeation data is available. If other chemicals are used in conjunction with this chemical, material selection should be based on protection for all chemicals present.

<b>Suitable material</b>	butyl-rubber
<b>Evaluation</b>	according to EN 374: level 3
<b>Glove thickness</b>	approx 0,3 mm
<b>Break through time</b>	approx 60 min

<b>Suitable material</b>	polyvinylchloride / nitrile rubber
<b>Evaluation</b>	according to EN 374: level 2
<b>Glove thickness</b>	approx 0,9 mm
<b>Break through time</b>	approx 30 min

#### Skin and body protection

Impervious clothing. Wear face-shield and protective suit for abnormal processing problems.

#### Respiratory protection

Respirator with filter for organic vapour. Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust). Equipment should conform to NIOSH.

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## Environmental exposure controls

If possible use in closed systems. If leakage can not be prevented, the substance needs to be suck off at the emersion point, if possible without danger. Observe the exposure limits, clean exhaust air if needed. If recycling is not practicable, dispose of in compliance with local regulations. Inform the responsible authorities in case of leakage into the atmosphere, or of entry into waterways, soil or drains.

## SECTION 9: Physical and chemical properties

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

Appearance	liquid				
Colour	colourless				
Odour	fruity				
Odour threshold	7 - 20 ppm				
pH	6,2 (5,3 g/l in water @ 20 °C (68 °F))				
Melting point/range	< -130 °F (< -90 °C) (Pour point)				
Method	DIN ISO 3016***				
Boiling point/range	259 °F (126 °C) @ 1 atm (101,3 kPa)				
Method	OECD 103***				
Flash point	81 °F (27 °C) @ 1 atm (101,3 kPa)***				
Method	EU A.9				
Evaporation rate	1,0 (n-Butyl acetate = 1)				
Flammability (solid, gas)	Does not apply, the substance is a liquid				
Lower explosion limit	1,2 Vol %				
Upper explosion limit	7,5 Vol %				
Vapour pressure					
Values [hPa]	Values [kPa]	Values [atm]	@ °C	@ °F	Method
11,2***	1,12***	0,0112***	20	68	OECD 104***
57,9***	5,79***	0,0579***	50	122	OECD 104***
Vapour density	4,0 (Air = 1) @ 20 °C (68 °F)				
Relative density					
Values	@ °C	@ °F	Method		
0,881	20	68	DIN 51757		
Solubility	No data available				
Water solubility	5,3 g/l @ 68 °F (20 °C) OECD 105				
log Pow	2,3 (measured) OECD 117				
Autoignition temperature	779 °F (415 °C) @ 1 atm (101,3 kPa)***				
Method	DIN 51794				
Decomposition temperature	No data available***				
Viscosity	0,83 mPa*s @ 68 °F (20 °C)				
Method	OECD 114***				

### 9.2. Other information

Molecular weight	116,16
Molecular formula	C6 H12 O2
Oxidizing properties	Does not apply, substance is not oxidising. There are no chemical groups associated with oxidizing properties

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Refractive Index	1,393 @ 68 °F (20 °C)
Explosive properties	Does not apply, substance is not explosive. There are no chemical groups associated with explosive properties
Surface tension	61,3 mN/m (1 g/l @ 20°C), OECD 115

## SECTION 10: Stability and Reactivity

### 10.1. Reactivity

The reactivity of the product corresponds to the typical reactivity shown by the substance group as described in any text book on organic chemistry.

### 10.2. Chemical stability

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

Vapours may form explosive mixture with air.

### 10.4. Conditions to avoid

Avoid contact with heat, sparks, open flame and static discharge. Avoid any source of ignition.

### 10.5. Incompatible materials

strong acids and strong bases, strong oxidizing agents.

### 10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Likely routes of exposure Ingestion, Inhalation, Eye contact, Skin contact

n-Butyl acetate, CAS: 123-86-4

#### Main symptoms

dizziness, narcosis, cough, nausea, vomiting, headache, unconsciousness, shortness of breath.

#### Target Organ Systemic Toxicant - Single exposure

The available data lead to the classification given in section 2

#### Target Organ Systemic Toxicant - Repeated exposure

Repeated exposure may cause skin dryness or cracking

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

STOT RE

### Acute toxicity

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<b>n-Butyl acetate (123-86-4)</b>				
Routes of Exposure	Endpoint	Values	Species	Method
Oral	LD50	10760 mg/kg	rat, male/female	OECD 423
Dermal	LD50	> 14112 mg/kg	rabbit	OECD 402
Inhalative	LC50***	> 20 mg/l (4h)***		

**n-Butyl acetate, CAS: 123-86-4**

**Assessment**

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

- Acute oral toxicity
- Acute dermal toxicity
- Acute inhalation toxicity

<b>Irritation and corrosion</b>				
<b>n-Butyl acetate (123-86-4)</b>				
Target Organ Effects	Species	Result	Method	
Skin	rabbit	No skin irritation	OECD 404	
Eyes	rabbit	No eye irritation	OECD 405	
Respiratory tract***	human***	Low irritating potential***		

**n-Butyl acetate, CAS: 123-86-4**

**Assessment**

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

- skin irritation/corrosion
- eye irritation/corrosion
- respiratory irritation\*\*\*

<b>Sensitization</b>				
<b>n-Butyl acetate (123-86-4)</b>				
Target Organ Effects	Species	Evaluation	Method	
Skin	mouse	not sensitizing		

**n-Butyl acetate, CAS: 123-86-4**

**Assessment**

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

- Skin sensitization
- For respiratory sensitization, no data are available

<b>Subacute, subchronic and prolonged toxicity</b>				
<b>n-Butyl acetate (123-86-4)</b>				
Type	Dose	Species	Method	
90-day	NOAEC: 500 ppm	rat, male/female	EPA OTS 798.2450	Inhalation
90-day***	NOAEL: 125 mg/kg/d***	rat, male/female***		Oral read across***
90-day***	LOAEL: 500 mg/kg/d***	rat, male/female***		Oral read across***

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## Assessment

Based on available data, the classification criteria are not met for:  
STOT RE

### Carcinogenicity, Mutagenicity, Reproductive toxicity

#### n-Butyl acetate (123-86-4)

Type	Dose	Species	Evaluation	Method	
Mutagenicity		Salmonella typhimurium	negative	OECD 471 (Ames)	
Mutagenicity		CHL (Chinese hamster lung cells)***	negative (without metabolic activation)	Chromosomal Aberration***	In vitro study***
Mutagenicity***		V79 cells, Chinese hamster***	negative***	OECD 476 (Mammalian Gene Mutation) HPRT***	In vitro study read across***
Mutagenicity***		mouse***	negative***	OECD 474***	in vivo read across***
Reproductive toxicity***	NOEC 9640 mg/m <sup>3</sup> ***	rat rabbit rat, male/female***		OECD 416***	
Developmental Toxicity***	LOAEC: 7230 mg/m <sup>3</sup> ***	rat rabbit***		OECD 414, Inhalative***	Maternal toxicity Developmental toxicity***

#### n-Butyl acetate, CAS: 123-86-4

##### CMR Classification

The available data on CMR properties are summarized in the table above. They do not indicate a classification into categories 1A or 1B

##### Evaluation

In vitro tests did not show mutagenic effects  
Did not show mutagenic effects in animal experiments  
No developmental effects in the absence of maternal toxicity  
No cancer study was conducted  
In the absence of specific alerts no cancer testing is required\*\*\*

#### n-Butyl acetate, CAS: 123-86-4

##### Other adverse effects

Components of the product may be absorbed into the body by inhalation.

##### Note

Handle in accordance with good industrial hygiene and safety practice. Further details on substance data can be found in the registration dossier under the following link:

<http://echa.europa.eu/information-on-chemicals/registered-substances>.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Acute aquatic toxicity

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Species	Exposure time	Dose	Method
Pimephales promelas (fathead minnow)	96h	LC50: 18 mg/l	OECD 203
Selenastrum capricornutum (green algae)***	72h	EC50: 397 mg/l	OECD 201 Growth rate***
Tetrahymena pyriformis	40 h	IC50: 356 mg/l	
Daphnia magna (Water flea)***	48h***	EC50: 44 mg/l***	OECD 202***

## Long term toxicity

### n-Butyl acetate (123-86-4)

Type	Species	Dose	Method	
Aquatic toxicity***	Selenastrum capricornutum (green algae)***	NOEC: 196 mg/l***	OECD 201 Growth rate***	
Aquatic toxicity Reproductive toxicity***	Daphnia magna (Water flea)***	EC50: 34,2 mg/l/21d***	OECD 211***	read across***
Aquatic toxicity Reproductive toxicity***	Daphnia magna (Water flea)***	NOAEC: 23,2 mg/l (21d)***	OECD 211***	read across***

## 12.2. Persistence and degradability

### n-Butyl acetate, CAS: 123-86-4

#### Biodegradation

83 % (28 d), aerobic, Readily biodegradable, OECD 301 D.

#### Abiotic Degradation

### n-Butyl acetate (123-86-4)

Type	Result	Method
Hydrolysis***	t1/2 (pH 7 ): 2,14 yr @ 25°C***	
Photolysis***	No data available***	

## 12.3. Bioaccumulative potential

### n-Butyl acetate (123-86-4)

Type	Result	Method
BCF***	15***	calculated***
log Pow***	2,3***	measured, OECD 117***

## 12.4. Mobility in soil

### n-Butyl acetate (123-86-4)

Type	Result	Method
Surface tension***	61,3 mN/m (1 g/l @ 20°C)***	OECD 115***
Adsorption/Desorption***	log Koc: 1,27 @ 25 °C***	calculated***
Distribution to environmental compartments***	no data available***	

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## 12.5. Results of PBT and vPvB assessment

### n-Butyl acetate, CAS: 123-86-4

#### **PBT and vPvB assessment**

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT), nor very persistent nor very bioaccumulating (vPvB)

## 12.6. Other adverse effects

### n-Butyl acetate, CAS: 123-86-4

No data available

#### **Note**

Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### **Product Information**

Disposal required in compliance with all waste management related state and local regulations. The choice of the appropriate method of disposal depends on the product composition by the time of disposal as well as the local statutes and possibilities for disposal.

#### **Uncleaned empty packaging**

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

## SECTION 14: Transport information

### D.O.T. (49CFR)

14.1. UN number	UN 1123
14.2. UN proper shipping name	Butyl acetates
14.3. Transport hazard class(es)	3
14.4. Packing group	III
14.5. Environmental hazards	no
14.6. Special precautions for user	
Reportable Quantity (RQ)	5000 lb/ 2270 kg (Butyl acetate)
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### ICAO-TI / IATA-DGR

14.1. UN number	UN 1123
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14.2. UN proper shipping name	Butyl acetates
14.3. Transport hazard class(es)	3
14.4. Packing group	III
14.5. Environmental hazards	no
14.6. Special precautions for user	no data available

## IMDG

14.1. UN number	UN 1123
14.2. UN proper shipping name	Butyl acetates
14.3. Transport hazard class(es)	3
14.4. Packing group	III
14.5. Environmental hazards	no
14.6. Special precautions for user	
EmS	F-E, S-D

## 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Product name	Butyl acetate
Ship type	3
Pollution category	Y

## **SECTION 15: Regulatory information**

### **Federal and State Regulations**

Components of the product are listed in the quoted regulations. For details please refer to the regulations directly. This list is not exhaustive, please check for other applicable regulations.

#### **Federal Regulations**

This product is listed on the TSCA inventory

#### **n-Butyl acetate, CAS: 123-86-4**

CERCLA Hazardous Substance

CERCLA RQ 5000 LBS

#### **State Regulations**

#### **n-Butyl acetate, CAS: 123-86-4**

- CA Hazardous Substances (Director's) List
- IL Chemical Safety Act
- MA Hazardous Substances List
- MA RTK List
- MN Hazardous Substances List
- NY RTK List
- PA RTK List
- RI RTK List

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## International Inventories

### **n-Butyl acetate, CAS: 123-86-4**

AICS (AU)  
DSL (CA)  
IECSC (CN)  
EC-No. 2046581 (EU)  
ENCS (2)-731 (JP)  
ISHL (2)-731 (JP)  
ISHL 2-(6)-226 (JP)  
KECI KE-04179 (KR)  
INSQ (MX)  
PICCS (PH)  
TSCA (US)  
NZIoC (NZ)  
TCSI (TW)

## **SECTION 16: Other information**

Revision Date 16-Sep-2016  
Issuing date 16-Sep-2016

### Hazard Rating Systems

#### **NFPA (National Fire Protection Association)**

Health Hazard 2  
Fire Hazard 3  
Reactivity 0

#### **HMIS (Hazardous Material Information System)**

Health Hazard 2  
Flammability 3  
Physical Hazard 0

#### **Training advice**

For effective first-aid, special training / education is needed.

#### **Sources of key data used to compile the datasheet**

Information contained in this safety data sheet is based on Oxea owned data and public sources deemed valid or acceptable. The absence of data elements required by OSHA, ANSI or Annex II, Regulation 1907/2006/EC indicates, that no data meeting these requirements is available.

#### **Further information for the safety data sheet**

Changes against the previous version are marked by \*\*\*. Observe national and local legal requirements. For more information, other material safety data sheets or technical data sheets please consult the Oxea homepage ([www.oxea-chemicals.com](http://www.oxea-chemicals.com)).

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**For industrial use only.** The information contained herein is accurate to the best of our knowledge. We do not suggest or guarantee that any hazards listed herein are the only ones which exist. Oxea makes no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances. User has the sole responsibility to determine the suitability of the materials for any use and the manner of use contemplated. User must meet all applicable safety and health standards.

**End of Safety Data Sheet**

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