



FIRE RETARDANT ADDITIVES

# Safety Data Sheet

## Martoxid® PN-202; Martoxid® PN-6(12); Martoxid® PN-6; Martoxid® PS-6(12); Martoxid® PS-6

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006  
COMMISSION REGULATION (EU) No. 2020/878

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

#### 1.1. Product identifier

**Product Name:** Martoxid® PN-202; Martoxid® PN-6(12); Martoxid® PN-6;  
Martoxid® PS-6(12); Martoxid® PS-6

**Pure substance/mixture** Substance

Chemical Name	CAS Number	EC No	EU REACH registration number	(CLP) Regulation (EC 1272/2008)	Weight-%
Aluminum oxide	1344-28-1	215-691-6	01-2119529248-35-xxxx 01-2119529248-35-0017	Not classified	>99

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

**Recommended Use** Abrasive Adsorbent(s) Catalyst Filler Chemical industry (raw material for the production of other aluminium compounds), etc.

**Industrial use**

- Production substance
- Polymer processing
- Production of plastics and rubber compounds
- Formulation flame retardant preparation
- Compounds used in transport industry
- Compounds used in electrical application
- Compounds used in electronic application
- Compounds used in Wire & Cable
- Abrasive for glass industry, ceramics and stones
- Textile coating
- Production of corrosion inhibitors
- Fuels
- Deacidification agent for paper
- pH Regulating agent
- Use in coatings, inks, paints and roofing
- Use as corrosion inhibitor of gas turbines and boilers
- Use in cleaning agents
- Use in oil field operations
- Use in lubricants
- Use in metal working fluids
- Use in blowing agents
- Use in binders and release agents
- Use in textile

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Use in functional fluids  
Use in agrochemicals  
Use in water treatment chemicals  
Use in mining chemicals  
Recycling plastics  
White pigment for paper and board, filler, etc.

### Professional use

Polymer processing  
Use in Adhesives and/or sealants  
Use in coatings, inks, paints and roofing  
Use in agrochemicals  
Use in cleaning agents  
Use in oil field operations  
Use in lubricants  
Use in metal working fluids  
Use in binders and release agents  
Use in propellants  
Use in textile  
Use in explosives  
Use in water treatment chemicals  
Use in functional fluids  
For use by laboratories for research  
Fuels  
De-icing & anti-icing applications  
Road and construction applications

### Consumer use

Use in coatings, inks, paints and roofing  
Use in cleaning agents  
Use in lubricants  
Use in propellants  
Fuels  
Use in functional fluids  
De-icing & anti-icing applications  
Cosmetic additive  
Use in water treatment chemicals

### Uses advised against

None known.

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

#### Manufacturer

MARTINSWERK GmbH  
Kölner Strasse 110  
50127 Bergheim  
Germany  
Tel. : +49-2271-90.22.78  
Fax. : +49-2271-90.27.17

#### Internet

[www.hubermaterials.com](http://www.hubermaterials.com)

#### E-mail

[hubermaterials@huber.com](mailto:hubermaterials@huber.com)

### 1.4. Emergency telephone number

CHEMTREC: +1 800 424 9300 or International +1 703 527 3887

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Poison control center phone number National Anti-Poison Center UK: +44 844 892 0111 (National Poisons Information Service)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

(CLP) Regulation (EC 1272/2008) Not classified

#### Hazards identification

Physical Hazard	Not classified
Health Hazards	Not classified
Environmental Hazard	Not classified

### 2.2. Label elements

Symbols/Pictograms	None
Signal Word	None
Hazard Statements	This product is not classified as hazardous according to the UN GHS guideline and labeling is not required This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

#### Precautionary Statements

Prevention	Employ good industrial hygiene practice Wash hands thoroughly after handling
Response	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing IF ON SKIN: Wash with plenty of soap and water IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing If swallowed, rinse mouth with water (only if the person is conscious) Drink plenty of water
Storage	Keep in a dry place Store away from incompatible materials
Disposal	Disposal should be in accordance with applicable regional, national and local laws and regulations.

Additional Information: None.

2.3. Other hazards No information available.

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### SECTION 3: Composition/information on ingredients

#### 3.1. Substance Substance

Chemical Name	CAS Number	EC No	EU REACH registration number	(CLP) Regulation (EC 1272/2008)	Annex	Weight-%
Aluminum oxide	1344-28-1	215-691-6	01-2119529248-35 -xxxx 01-2119529248-35 -0017	Not classified	-	>99

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

**General Advice** When in doubt or if symptoms are observed, get medical advice. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

**Eye Contact** In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

**Skin Contact** Wash with plenty of soap and water.

**Inhalation** If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

**Ingestion** Rinse mouth thoroughly with water.

**Aspiration hazard** Not an expected route of exposure.

**Notes to Physician** Treat symptomatically.

**4.2. Most important symptoms and effects, both acute and delayed** Dust contact with the eyes can lead to mechanical irritation. Contact with dust can cause mechanical irritation or drying of the skin.

**4.3. Indication of any immediate medical attention and special treatment needed** Treatment should be symptomatic and supportive.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable Extinguishing

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**Media**

Water spray (fog). Foam. Dry chemical. Carbon dioxide (CO<sub>2</sub>).

**Unsuitable Extinguishing Media**

None known.

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

None known.

**5.3. Advice for firefighters****Special protective  
equipment for firefighters**

Wear a self-contained breathing apparatus and chemical protective clothing.

**Fire-fighting measures**

In case of fire and/or explosion do not breathe fumes.

## SECTION 6: Accidental release measures

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

Ensure adequate ventilation. Use personal protection recommended in Section 8.  
Avoid dust formation. Keep unauthorized personnel away.

**For non-emergency personnel**

Keep unauthorized personnel away.

**For emergency responders**

Keep unauthorized personnel away. Use personal protection recommended in Section 8.

**6.2. Environmental precautions**

Avoid runoff to waterways and sewers.

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

Methods for Containment : Prevent further leakage or spillage if safe to do so  
Methods for Clean-up : Sweep up and shovel into suitable containers for disposal

**6.4. Reference to other sections**

Section 8: Exposure controls and personal protection. See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

**7.1. Precautions for safe  
handling**

Minimize dust generation and accumulation  
Provide local exhaust ventilation  
Handle in accordance with good industrial hygiene and safety practice

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

Store away from incompatible materials  
Keep container tightly closed and dry

**7.3. Specific end use(s)**

No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

##### Aluminum oxide

ACGIH	TWA: 10 mg/m <sup>3</sup>
OSHA	TWA: 15 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable fraction (vacated) TWA: 10 mg/m <sup>3</sup> total dust (vacated) TWA: 5 mg/m <sup>3</sup> respirable fraction Not established
NIOSH	TWA: 5 mg/m <sup>3</sup> respirable fraction, smoke
Austria	STEL: 10 mg/m <sup>3</sup> respirable fraction, smoke
Austria	TWA: 1 mg/m <sup>3</sup>
Belgium	TWA: 1.5MGM3;Respirable fraction.
Bulgaria	10.0MGM3;Dust.
Croatia	TWA: 10 mg/m <sup>3</sup> total dust 4 mg/m <sup>3</sup> respirable dust
Czech Republic	TWA: 10.0 mg/m <sup>3</sup> dust
Denmark	TWA: 5 mg/m <sup>3</sup> total 2 mg/m <sup>3</sup> respirable
Estonia	TWA: 10 mg/m <sup>3</sup> total dust 4 mg/m <sup>3</sup> respirable dust
Finland	TWA: 2 mg/m <sup>3</sup> Al
France	VME/VLE: 10MGM3
Germany	DFG MAK: 8-hr TWA: 4 mg/m <sup>3</sup> : haltige Stäube (alveolengängige Fraktion)[4 mg/m <sup>3</sup> : inhalable dust fraction ] 1.5 mg/m <sup>3</sup> haltige Stäube (einatembare Fraktion)[1.5MGM3 : respirable dust fraction] TRGS 900 limit : 3 mg/m <sup>3</sup> : respirable; 10MG/M3 inhalable
Greece	TWA: 10 mg/m <sup>3</sup> inhalable fraction 5 mg/m <sup>3</sup> respirable fraction
Hungary	TWA: 6 mg/m <sup>3</sup> respirable dust
Ireland	TWA: 10 mg/m <sup>3</sup> total inhalable dust 4 mg/m <sup>3</sup> respirable dust
Ireland	30 mg/m <sup>3</sup> total inhalable dust 12 mg/m <sup>3</sup> respirable dust
Italy	TWA: 1MGM3;Respirable.
Latvia	TWA: 6 mg/m <sup>3</sup> disintegration aerosol
Lithuania	TWA: 5 mg/m <sup>3</sup> Al inhalable fraction 2 mg/m <sup>3</sup> Al respirable fraction
Netherlands	MAC TWA: 10 mg/m <sup>3</sup>
Norway	TWA: 10 mg/m <sup>3</sup>
Norway	STEL: 10 mg/m <sup>3</sup>
Poland	TWA: 2.5 mg/m <sup>3</sup> inhalable fraction 1.2 mg/m <sup>3</sup> respirable fraction
Portugal	TWA: 10 mg/m <sup>3</sup> particulate matter containing no Asbestos and <1% Crystalline silica
Romania	TWA: 2 mg/m <sup>3</sup> aerosol 3 mg/m <sup>3</sup> 1 mg/m <sup>3</sup>
Romania	STEL: 5 mg/m <sup>3</sup> aerosol 10 mg/m <sup>3</sup> dust 3 mg/m <sup>3</sup> fume
Slovakia	TWA: 1.5 mg/m <sup>3</sup> fume 1.5 mg/m <sup>3</sup>

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Spain	0.1 mg/m <sup>3</sup> respirable fraction 6 mg/m <sup>3</sup> total aerosol
Sweden	TWA: 10 mg/m <sup>3</sup>
	TWA: 5 mg/m <sup>3</sup> total dust
	2 mg/m <sup>3</sup> respirable dust
Switzerland	TWA: 3 mg/m <sup>3</sup> respirable dust, smoke
Switzerland	STEL: 24 mg/m <sup>3</sup> respirable dust, smoke
United Kingdom	TWA: 10 mg/m <sup>3</sup> inhalable dust
	4 mg/m <sup>3</sup> respirable dust

**Recommended monitoring procedures** Refer also to national guidance documents for information on currently recommended monitoring procedures

**Biological Limit Values** None

**DNEL (Derived No Effect Level)**

### Aluminum oxide

Worker - inhalative, long-term - systemic	3 mg/m <sup>3</sup>
Consumer - oral, long-term - systemic	6.22 mg/kg bw/d

**PNEC (Predicted No Effect Concentration)**

### Aluminum oxide

Sewage treatment plant	20 mg/l
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## 8.2. Exposure controls

**Engineering Measures** Do not handle until all safety precautions have been read and understood  
Ensure adequate ventilation, especially in confined areas  
Provide a good standard of controlled ventilation (10 to 15 air changes per hour)  
Use exhaust ventilation to keep airborne concentrations below exposure limits  
In case of insufficient ventilation, wear suitable respiratory equipment

### **Personal protective equipment**

**Eye/Face Protection** Wear safety glasses with side shields (or goggles).

**Skin and Body Protection** Wear suitable protective clothing.

**Hand protection** For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn. Wear suitable gloves tested to EN 374.

**Respiratory Protection** When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.  
Recommended filter type:  
(FFP2)  
(FFP3)

**Thermal hazards** None known.

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<b>Hygiene Measures</b>	Follow general hygiene considerations recognized as common good workplace practices The worker should wash daily at the end of each work shift, and prior to eating, drinking, smoking, etc
<b>Environmental Exposure Controls</b>	Dispose of in accordance with local regulations

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties****Appearance:**

<b>Physical State</b>	Solid Powder
<b>Color</b>	White
<b>Odor</b>	Odorless
<b>Odor Threshold</b>	None
<b>pH:</b>	Not available
<b>Melting point / Freezing point</b>	2000 °C (3632 °F) (1013 hPa)
<b>Initial boiling point</b>	2980 °C (5396 °F) (1013 hPa)
<b>Initial boiling point and boiling range</b>	2980 °C (5396 °F) (1013 hPa)
<b>Freezing Point</b>	Not applicable
<b>Flash Point</b>	Not applicable Product/Substance is inorganic Solid
<b>Evaporation Rate</b>	Not applicable. Melting Point : > 300°C
<b>Flammability (solid, gas)</b>	No information available
<b>Upper flammability limit:</b>	--
<b>Lower flammability limit:</b>	--
<b>Vapor Pressure</b>	1 hPa (2158 °C)
<b>Vapor Density</b>	Not applicable Melting Point : > 300°C
<b>Density</b>	No data available
<b>Relative Density</b>	4 g/cm <sup>3</sup> (20 °C)
<b>Water Solubility</b>	Insoluble
<b>Solubility in other solvents</b>	No information available
<b>Partition coefficient</b>	No information available Not applicable Product/Substance is inorganic
<b>Autoignition Temperature</b>	Aluminum oxide has no potential to explode.
<b>Decomposition Temperature</b>	~2000 °C (> 2050 °C)
<b>Viscosity</b>	No information available.
<b>Kinematic viscosity</b>	Not applicable Solid
<b>Dynamic viscosity</b>	Not applicable Solid
<b>Explosive Properties</b>	None
<b>Oxidizing Properties</b>	None
<b>Particle Size</b>	No information available
<b>VOC Content (%)</b>	Not applicable

**9.2. Other information****9.2.1. Information with regard to physical hazard classes**

Not applicable

**9.2.2. Other safety characteristics**



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Not applicable

**SECTION 10: Stability and reactivity**

<b>10.1. Reactivity</b>	No data available
<b>10.2. Chemical stability</b>	Stable under normal conditions
<b>10.3. Possibility of hazardous reactions</b>	None under normal processing
<b>10.4. Conditions to avoid</b>	Incompatible materials Decomposition Temperature ~ 2000 °C (> 2050°C) < / =0.3% : Al <sub>2</sub> O <sub>3</sub> , Water
<b>10.5. Incompatible materials</b>	Strong acids
<b>10.6. Hazardous decomposition products</b>	None known

**SECTION 11: Toxicological information**

**General Information** Users are advised to consider national Occupational Exposure Limits or other equivalent values.

**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Aluminum oxide**

<b>Serious eye damage/eye irritation</b>	Non-irritant : Rabbit
<b>Skin Corrosion/Irritation</b>	Non-irritant : Rabbit
<b>Mutagenicity</b>	Based on available data, the classification criteria are not met
<b>Reproductive Effects</b>	No indication of effects on fertility. No indication of effects on developmental toxicity.
<b>Target Organ Effects</b>	Lungs
<b>Specific target organ toxicity - Single exposure</b>	May cause respiratory irritation
<b>Specific target organ toxicity - Repeated exposure</b>	May cause damage to organs through prolonged or repeated exposure if inhaled Lungs

**Acute Toxicity** Not expected to be acutely toxic

**Chronic Toxicity** Based on available data, the classification criteria are not met.

**Chronic Effects** Based on available data, the classification criteria are not met.

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<b>Respiratory Sensitization</b>	Based on available data, the classification criteria are not met
<b>Serious eye damage/eye irritation</b>	Based on available data, the classification criteria are not met
<b>Skin Corrosion/Irritation</b>	Based on available data, the classification criteria are not met
<b>Skin Sensitization</b>	Based on available data, the classification criteria are not met
<b>Mutagenicity</b>	Based on available data, the classification criteria are not met
<b>Reproductive Effects</b>	No indication of effects on developmental toxicity. Information given is based on data obtained from similar substances. No indication of effects on fertility.
<b>Reproductive Toxicity</b>	Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
<b>Specific target organ toxicity - Single exposure</b>	Based on available data, the classification criteria are not met.
<b>Specific target organ toxicity - Repeated exposure</b>	Based on available data, the classification criteria are not met.

**Information on Likely Routes of Exposure**

<b>Inhalation</b>	Do not breathe dust
<b>Ingestion</b>	Ingestion is not a likely route of exposure
<b>Skin</b>	Avoid prolonged or repeated contact with skin Contact with dust can cause mechanical irritation or drying of the skin
<b>Eyes</b>	Avoid contact with eyes Dust contact with the eyes can lead to mechanical irritation
<b>Aspiration hazard</b>	Not an expected route of exposure.

**11.2. Information on other hazards**

<b>11.2.1. Endocrine disrupting properties</b>	This product does not contain any known or suspected endocrine disruptors
<b>11.2.2. Other information</b>	Not applicable

**SECTION 12: Ecological information**

<b>12.1. Toxicity</b>	Not considered to be harmful to aquatic life
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### Aluminum oxide

WGK Classification (AwSV) 1346 WGK: nwg

<b>12.2. Persistence and degradability</b>	The methods for determining biodegradability are not applicable to inorganic substances.
<b>12.3. Bioaccumulative potential</b>	Not likely to bioaccumulate.
<b>Bioconcentration factor (BCF)</b>	No data available.
<b>12.4. Mobility in soil</b>	None.
<b>12.5. Results of PBT and vPvB assessment</b>	This substance does not meet the criteria for classification as PBT or vPvB.
<b>12.6. Endocrine disrupting properties</b>	This product does not contain any known or suspected endocrine disruptors

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

<b>Disposal Methods</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations.
<b>Contaminated Packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not reuse container.
<b>Waste codes</b>	Waste codes should be assigned by the user based on the application for which the product was used

### Aluminum oxide

WGK Classification (AwSV) 1346 WGK: nwg

## SECTION 14: Transport information

### Mode of Transportation (Road, Water, Air, Rail)

<b>TDG -Canada</b>	Not regulated
<b>DOT</b>	Not regulated
<b>ADR</b>	Not regulated
<b>RID</b>	Not regulated
<b>ADN</b>	Not regulated

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IATA Not regulated  
IMDG/IMO Not regulated  
ICAO Not regulated

- 14.1. UN number or ID number None
- 14.1. UN number None
- 14.2. UN proper shipping name None
- 14.3. Transport hazard class(es) None
- 14.4. Packing group None
- 14.5. Environmental hazards No
- 14.6. Special precautions for user Not applicable
- 14.7. Maritime transport in bulk according to IMO instruments  
Not applicable

## SECTION 15: Regulatory information

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

#### Global Inventories

Pure substance/mixture Substance

Chemical Name	CAS Number	EC No	Australia (AIC)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico	Thailand (TECI)	New Zealand	Philippines (PICCS)	Taiwan	TSCA: United States
Aluminum oxide	1344-28-1	215-691-6	Y	Y	Y	(1)-23 (ENCS)(IS HL)	KE-01012	Y	55-1-01517	Y	Y	Y	A

Legend X / Y: Complies ; A: Active ; - / N: Exempt / Not Listed

#### REACH No.

#### Aluminum oxide

EU REACH registration number 01-2119529248-35-xxxx  
01-2119529248-35-0017  
Turkish KKDIK pre-registration 05-0000192736-20-0000

#### Germany

Very low solubility Not considered to be harmful to aquatic life

#### Aluminum oxide

WGK Classification (AwSV) 1346 WGK: nwg

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### 15.2. Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance

## SECTION 16: Other information

**Reason for Revision** This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 & COMMISSION REGULATION (EU) No. 2020/878

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**Print Date** 15/Feb/2023  
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**Prepared by** Huber Engineered Materials Global Regulatory Affairs  
email: regulatory.affairs@huber.com.

**(CLP) Regulation (EC 1272/2008)** Not classified

### Labeling

**Symbols/Pictograms** None

**Signal Word** None

**Hazard Statements** This product is not classified as hazardous according to the UN GHS guideline and labeling is not required. This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Training Advice** Do not handle until all safety precautions have been read and understood.

**Abbreviations and acronyms**

IARC (International Agency for Research on Cancer)  
IUCLID (International Uniform Chemical Information Database)  
WHMIS (Workplace Hazardous Materials Information System)  
OSHA (Occupational Safety and Health Administration of the US Department of Labor)  
TWA (Time-Weighted Average)  
CLP (The Classification, Labeling and Packaging of Substances and Mixtures Regulation (EC 1272/2008))  
PPE (Personal Protection Equipment)  
NIOSH (National Institute for Occupational Safety and Health)  
CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act)  
RQ (Reportable Quantity) (RQ/% in mixture)  
STEL (Short Term Exposure Limit)  
TLV® (Threshold Limit Value)  
DNEL (Derived No Effect Level)  
SVHC (Substances of Very High Concern)  
BOD (Biochemical oxygen demand)  
COD (Chemical oxygen demand)  
ICAO (International Civil Aviation Organization)  
IMDG (International Maritime Dangerous Goods)  
ADR (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  
RID (Agreement Concerning the International Carriage of Dangerous Goods by Rail)  
IATA (International Air Transport Association)  
IMDG (International Maritime Dangerous Goods)  
DOT (Department of Transportation)  
TDG (Transport of Dangerous Goods) Canada  
PNEC (Predicted No Effect Concentration)  
SCBA (Self-Contained Breathing Apparatus) Positive Pressure

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GHS (Globally Harmonized System)  
TSCA (Toxic Substances Control Act)

### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**