



Parker Hannifin Corporation -
Sporlan Division
206 Lange Drive
Washington, MO, U.S.A., 63090
Telephone: 001 (636) 239 1111

Insulation Mastic

PM11; PM15

SDS Preparation Date (dd/mm/yyyy): 13/10/2025

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SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended. This safety data sheet complies with the requirements of UK REACH Regulation.

SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product identifier : Insulation Mastic

Product Code(s) : PM11 (P/N 475311); PM15 (P/N 475312)

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

: Heat conducting compound.
Use pattern: Professional use only
Restriction on use: None known

1.3 Details of the supplier of the safety data sheet:

Parker Hannifin Corporation - Sporlan Division

206 Lange Drive
Washington, MO, U.S.A.
63090

Telephone : (636) 239 1111

1.4 Emergency Telephone Number

: Chemtrec 1-800-424-9300 (Within Continental U.S.); Chemtrec 703-527-3887 (Outside U.S.).
Poisons Information Centre
The United Kingdom NHS 111
France +33383852192
Germany +493018412-0
Spain +34917689800
Poland +48422538400
Italy
06 68593726 (CAV "Osp. Pediatrico Bambino Gesù" Dip. Emergenza - Roma) 800 183459 (Az. Osp. Univ. Foggia - Foggia)
081 5453333 (Az. Osp. "A. Cardarelli" - Napoli)
06 49978000 (CAV Policlinico "Umberto I" - Roma)
06 3054343 (CAV Policlinico "A. Gemelli" - Roma)
055 7947819 (Az. Osp. "Careggi" U.O. Tossicologia Medica - Firenze)
0382 24444 (CAV Centro Nazionale di Informazione Tossicologica - Pavia) 02 66101029 (Osp. Niguarda Ca' Granda - Milano)
800 883300 (Azienda Ospedaliera Papa Giovanni XXII - Bergamo)

1.5 National Contact

: 001 (636) 239-1111

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Black viscous liquid. Asphalt odour.

Most important hazards: Occupational exposure to the substance or mixture may cause adverse effects. Refer also to TOXICOLOGICAL INFORMATION (Section 11).

This mixture is classified as hazardous in accordance with Regulation (EC) No 1272/2008.

Classification::

Germ Cell Mutagenicity - Category 2 ; H341
Carcinogenicity - Category 2 ; H351



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2.2 Label elements

Hazard pictogram(s)



Hazardous components which must be listed on the label: Asphalt, oxidized

Signal word

Warning!

Hazard statements

H341 -Suspected of causing genetic defects.

H351 -Suspected of causing cancer.

P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection.

P308 + P313 - IF exposed or concerned: Get medical advice/attention.

P405 - Store locked up.

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

2.3 Other hazards

Other hazards which do not result in classification:

Burning produces obnoxious and toxic fumes. May be mildly irritating to eyes and skin. Fumes from heated product may irritate respiratory tract. Ingestion may cause irritation of the mouth, throat and stomach.

Endocrine disrupting properties: Not applicable.

PBT assessment

This mixture contains no substance(s) above reportable levels which are considered to be persistent, bioaccumulating nor toxic (PBT), or very persistent and very bioaccumulating (vPvB).

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable

3.2 Mixtures

Mixture

Substance name	<u>CAS No</u>	<u>EC No.</u>	<u>Reach Registration No.</u>	<u>% Weight</u>	<u>Classification according to Regulation (EC) nr. 1272/2008</u>	<u>SCL, M-factor, ATE</u>
Asphalt, oxidized	64742-93-4	265-196-4	Present	30.0 - 60.0	Germ 2; H341; Carc 2;H351 (self-classified)	Not applicable.
Ethylene glycol	107-21-1	203-473-3	Present	0.1 - 1.0	Acute Tox. 4 ;H302 STOT RE 2 H373	Not available



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Crystalline silica	14808-60-7	238-878-4	Xn;R48/20	0.1 - 1.0	STOT RE 2;H373	N/Av
Potassium hydroxide	1310-58-3	215-181-3	Present	0.1 - 1.0	*Acute Tox. 4; H302 Skin Corr. 1A; H314	Not available
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	265-169-7	Present	0.1 - 1.0	Carc. 1B ;H350 Note L	Not applicable.

The following petroleum derived chemicals contain < 3% DMSO:64742-65-0
* minimum classification

SECTION 4. FIRST-AID MEASURES

4.1 Description of first aid measures

- Ingestion* : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms persist.
- Inhalation* : Move to fresh air. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing has stopped, give artificial respiration. If irritation or symptoms develop, seek medical attention.
- Skin contact* : For skin contact, wash with soap and water while removing contaminated clothing. If irritation persists, seek prompt medical attention. Wash contaminated clothing before reuse.
- Eye contact* : Immediately flush eyes with running water for at least 5 to 10 minutes. If irritation persists, seek prompt medical attention.

4.1.2 Self-protection for the first aider

- : Wear eye/face protection.

4.2 Most important symptoms and effects, both acute and delayed

- : Direct skin contact may cause temporary redness. Direct eye contact may cause temporary redness. If product is heated or mists are formed, inhalation may cause irritation to the nose, throat and respiratory tract. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Suspected of causing cancer. Suspected of causing genetic defects.

4.3 Indication of any immediate medical attention and special treatment needed

- : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

- : Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.

Unsuitable extinguishing media

- : Do not use water jet, as this may spread burning material.

5.2 Special hazards arising from the substance or mixture

- : Not flammable under normal conditions of use. However, may ignite if exposed to extreme heat and flame. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. During a fire, irritating and toxic gases may be generated by thermal decomposition or combustion.

5.3 Advice for firefighters

Protective equipment for fire-fighters

- : Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Do not enter without wearing specialized protective equipment suitable for the situation. Firefighter's normal protective clothing (Bunker Gear) will not provide adequate protection. A full-body encapsulating chemical protective suit with positive pressure self-contained breathing apparatus (NIOSH approved or equivalent) may be necessary.



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Special fire-fighting procedures

- : Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply or any natural waterway.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

- : Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. All persons dealing with the clean-up should wear the appropriate chemically protective equipment. Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

- : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces.

6.3 Methods and material for containment and cleaning up

- : Ventilate area of release. Stop the spill at source if it is safe to do so. Use inert, non-combustible absorbents to assist the pick up of material. Scrape up product and place it into a container for disposal. Notify the appropriate authorities as required. Refer to Section 13 for disposal of contaminated material.

6.4 Reference to other sections

- : Refer to protective measures listed in sections 7 and 8. Refer to Section 13 for disposal of material. 7

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

- : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/clothing and eye/face protection. Use with adequate ventilation. Training the workers on the potential health hazards associated with product vapor, dust or fume is important. Secondary inhalation exposures could occur when cleaning equipment, or when removing or laundering the clothing. Avoid breathing vapors, fumes or dust. Avoid contact with skin, eyes and clothing. Keep away from extreme heat and flame. Keep away from acids and incompatibles. Keep containers closed when not in use. Wash thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

- : Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat. Inspect periodically for damage or leaks. Protect against physical damage. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel.

7.3 Specific end use(s)

- : Heat conducting compound.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

Exposure Limits:

<u>Chemical Name</u>	<u>Exposure Limits</u>	<u>Type</u>	<u>Notes</u>
Asphalt, oxidized	N/Av	European Union (OEL)	N/Av
Crystalline silica	N/Av	European Union (OEL)	N/Av



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	0.1 mg/m ³ (inhalable) (TWA)	France (OEL)	None.
	N/Av	Italy (OEL)	N/Av
	2 mg/m ³ (inhalable) (TWA)	Poland (OEL)	None.
	0.3 mg/m ³ (respirable dust) (STEL)		
	0.1 mg/m ³ (respirable dust) (TWA)	Spain (OEL)	None.
	0.3 mg/m ³ (TWA)	The United Kingdom (WELs)	None.
	0.3 mg/m ³ (respirable dust) (STEL)		
Distillates (petroleum), solvent-dewaxed heavy paraffinic			
	None known.	European Union (OEL)	N/Av
Ethylene glycol	20 ppm (52 mg/m ³) (indicative limit, vapor) (TWA)	France (OEL)	Risk of cutaneous absorption
	40 ppm (104 mg/m ³) (indicative limit, vapor) (STEL)		
	52 mg/m ³ (TWA)	Hungary (OEL)	Potential for cutaneous absorption
	104 mg/m ³ (STEL)		
	20 ppm (52 mg/m ³) (TWA)	Italy (OEL)	skin - potential for cutaneous absorption
	40 ppm (104 mg/m ³) (STEL)		
	15 mg/m ³ (TWA)	Poland (OEL)	None.
	50 mg/m ³ (STEL)		
	20 ppm (52 mg/m ³) (indicative limit value) (TWA)	Spain (OEL)	skin - potential for cutaneous exposure
	40 ppm (104 mg/m ³) (STEL)		
	20 ppm (52 mg/m ³) (vapour) (TWA)	The United Kingdom (WELs)	Potential for cutaneous absorption
	40 ppm (104 mg/m ³) (vapour) (STEL)		
Potassium hydroxide			
	None.	European Union (OEL)	None.
	2 mg/m ³ (STEL)	France (OEL)	None.
	None.	Germany (OEL)	None.
	None.	Italy (OEL)	None.
	0.5 mg/m ³ (TWA)	Poland (OEL)	None.
	1 mg/m ³ (STEL)		
	2 mg/m ³ (STEL)	Spain (OEL)	None.
	2 mg/m ³ (STEL)	The United Kingdom (WELs)	None.

Biological Exposure Indices:

No biological exposure limits noted for the ingredient(s).

Derived No Effect Level (DNEL): Not available.

Predicted No Effect Concentration (PNEC) :Not available.

8.2 Exposure controls

Ventilation and engineering measures

- : Use with adequate ventilation. Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.



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- Respiratory protection** : If the TLV is exceeded, a NIOSH/MSHA-approved respirator is advised. Advice should be sought from respiratory protection specialists.
- Skin protection** : Gloves impervious to the material are recommended. Advice should be sought from glove suppliers.
- Eye / face protection** : Safety goggles or glasses as appropriate for the job.
- Other protective equipment** : Where extensive exposure to product is possible, use resistant coveralls, apron and boots to prevent contact. Ensure that eyewash stations and safety showers are close to the workstation location.
- General hygiene considerations** : Avoid breathing vapors, fumes or dust. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use.

8.3 Environmental exposure controls

- : Avoid release to the environment.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- Physical state** : Black viscous liquid.
- Colour** : Black
- Odour** : Asphalt odour.
- Odour threshold** : Not available.
- pH** : Not available.
- Flash point** : Not available.
- Flashpoint (Method)** : Not available.
- Lower flammable limit (% by vol.)** : Not available.
- Upper flammable limit (% by vol.)** : Not available.
- Auto-ignition temperature** : Not applicable.
- Decomposition temperature** : Not available.
- Oxidizing properties** : Not applicable.
- Explosive properties** : Not applicable.
- Initial boiling point and boiling range** : Not available.
- Melting/Freezing point** : Not available.
- Relative density** : 1.6
- Solubility in water** : insoluble
- Other solubility(ies)** : Not available.
- Vapour pressure** : Not available.
- Vapour density** : Not available.
- Partition coefficient: n-octanol/water** : Not available.
- Viscosity** : viscous
- Evaporation rate (BuAe = 1)** : < 1
- Particle characteristics** : Not applicable.



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9.2 Other Information

- Volatiles (% by weight)** : 43%
- Volatile organic Compounds (VOC's)**
: Not applicable.
- Other physical/chemical comments**
: Not applicable

SECTION 10. STABILITY AND REACTIVITY

- 10.1 Reactivity** : Not normally reactive.
- 10.2 Chemical stability** : Stable under the recommended storage and handling conditions prescribed.
- 10.3 Possibility of hazardous reactions**
: Hazardous polymerization will not occur.
- 10.4 Conditions to avoid** : Avoid heat and open flame. Avoid contact with incompatible materials. Do not use in areas without adequate ventilation.
- 10.5 Incompatible materials**
: Acids; Oxidizing agents.
- 10.6 Hazardous decomposition products**
: None known, refer to hazardous combustion products in Section 5.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological effects:

- Acute toxicity** : According to the classification criteria of the European Union, this product is not considered as being an acutely toxic chemical.
- Skin corrosion/Irritation** : According to the classification criteria of the European Union, this product is not considered as being a skin corrosive or irritant.
- Serious eye damage/irritation**
: According to the classification criteria of the European Union, this product is not considered an eye damage or irritant.
- Respiratory or skin sensitisation**
: Not expected to be a skin or respiratory sensitizer.
- Germ cell mutagenicity** : Germ Cell Mutagenicity - Category 2 Suspected of causing genetic defects.
- Carcinogenicity** : Carcinogenicity- Category 2 Suspected of causing cancer.
- Reproductive toxicity** : According to the classification criteria of the European Union, this product is not considered as being toxic to reproduction.
- STOT-single exposure** : According to the classification criteria of the European Union, this product is not expected to cause target organ toxicity through a single exposure.
- STOT-repeated exposure** : According to the classification criteria of the European Union, this product is not expected to cause target organ toxicity through repeated exposures.
- Aspiration hazard** : According to the classification criteria of the European Union, this product is not considered as being an aspiration hazard to humans.
- Routes of exposure** : Skin contact, eye contact, inhalation. Ingestion
- Effects of acute exposure** : Direct skin contact may cause slight or mild, transient irritation.
Direct eye contact may cause slight or mild, transient irritation.
Mild respiratory irritant
Extreme overexposures may cause kidney effects.
- Potential Chronic Health Effects**
: May cause damage to the kidneys through prolonged or repeated exposure if swallowed.

11.1.1 Acute Toxicity



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Toxicological data : No data is available on the product itself. See below for individual ingredient acute toxicity data.

<u>Chemical name</u>	<u>LC₅₀(4hr)</u> <u>inh, rat</u>	<u>LD₅₀</u>	
		<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Asphalt, oxidized	N/Av	>5000 mg/kg	N/Av
Ethylene glycol	4300 ppm (10.92 mg/L) (aerosol)	4000 mg/kg (rat) The estimated human lethal dose is: 1110 - 1665 mg/kg	9530 mg/kg
Crystalline silica	N/Av	N/Av	N/Av
Potassium hydroxide	N/Av	250 mg/kg	> 1260 mg/kg
Distillates (petroleum), solvent-dewaxed heavy paraffinic	>5 mg/L	>5000 mg/kg	>5000 mg/kg

11.2 Information on other Hazards

: Not applicable

11.2.1 Endocrine disrupting properties :Not applicable

11.2.2 Other hazards: Not applicable

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity : No data is available on the product itself. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters. See the following tables for individual ingredient ecotoxicity data.

Ecotoxicity data:

<u>Ingredients</u>	<u>CAS No</u>	<u>Toxicity to Fish</u>		
		<u>LC50 / 96h</u>	<u>NOEC / 21 day</u>	<u>M Factor</u>
Asphalt, oxidized	64742-93-4	N/Av	N/Av	
Ethylene glycol	107-21-1	22 810 mg/L (Rainbow trout)	N/Av	None.
Crystalline silica	14808-60-7	N/Av	N/Av	None.
Potassium hydroxide	1310-58-3	80 mg/L (Mosquito fish)	N/Av	None.
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	>100mg/L (Fathead minnow)	N/Av	None.



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<u>Ingredients</u>	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Asphalt, oxidized	64742-93-4	N/Av	N/Av	
Ethylene glycol	107-21-1	49 000 mg/L (Daphnia magna)	7500 - 15 000 mg/L	None.
Crystalline silica	14808-60-7	N/Av	N/Av	None.
Potassium hydroxide	1310-58-3	56 mg/L Ceriodaphnia (water flea)	N/Av	None.
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	>10000mg/L (Daphnia magna)	N/Av	None.

<u>Ingredients</u>	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Asphalt, oxidized	64742-93-4	72 Hr EC50 Pseudokirchneriella subcapitata: 56 mg/L	N/Av	
Ethylene glycol	107-21-1	6500 - 13 000 mg/L/96hr (Green algae)	10 000 mg/L/96hr	None.
Crystalline silica	14808-60-7	N/Av	N/Av	None.
Potassium hydroxide	1310-58-3	N/Av	N/Av	None.
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	>1000mg/L	N/Av	None.

12.2 Persistence and degradability

: The product itself has not been tested.

12.3 Bioaccumulation potential

: The product itself has not been tested.

Components

Partition coefficient n-octanol/water (log Kow)

Bioconcentration factor (BCF)

Ethylene glycol (CAS 107-21-1)	- 1.36
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12.4 Mobility in soil : The product itself has not been tested.

12.5 Results of PBT and vPvB assessment

: Not applicable

12.6 Endocrine disrupting properties

: Not applicable

12.7 Other Adverse Environmental effects

: Not applicable

12.8 Additional information : Not applicable

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

Handling for Disposal : Handle waste according to recommendations in Section 7.

Methods of Disposal : Dispose in accordance with all applicable federal, state, provincial and local regulations.



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SECTION 14. TRANSPORTATION INFORMATION

Regulatory Information	14.1 UN Number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing Group	Label
49CFR/DOT	None.	Not regulated.	Not regulated	none	
49CFR/DOT Additional information	None.				
TDG	None.	Not regulated.	Not regulated	none	
TDG Additional information	None.				
ICAO/IATA	None.	Not regulated.	Not regulated	none	
ICAO/IATA Additional information	None.				
IMDG	None.	Not regulated.	not regulated	none	
IMDG Additional information	None.				

14.5 Environmental hazards : This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.

14.6 Special precautions for user

: Appropriate advice on safety must accompany the package.

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

: This information is not available.

SECTION 15. REGULATORY INFORMATION

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



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- : Classification according to Regulation (EC) No. 1272/2008 on the classification of hazardous substances and mixtures. This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended [including Regulation (EU) 2020/878].
- Authorisations
- Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended: Restrictions on use Not applicable.
- Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use, as amended Not applicable.
- RoHS European Union's Directive 2002/95/EC, the Restriction of the Use of certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) : Not applicable.
- Directive 2012/18/EU (Seveso III) on the control of major-accident hazards involving dangerous substances: Not applicable.
- Directive 98/24/EC on the protection of the health and safety of workers from risks related to chemical agents at work: Not applicable.
- Directive 98/24/EC on the protection of the health and safety of workers from risks related to chemical agents at work: Not applicable.
- Water contaminating class (Germany) -1-

15.2 Chemical safety assessment

- : A chemical safety assessment has not been carried out by the Manufacturer of this product.

SECTION 16. OTHER INFORMATION

Legend

- : ACGIH: American Conference of Governmental Industrial Hygienists
- CAS: Chemical Abstract Services
- CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
- CFR: Code of Federal Regulations
- DOT: Department of Transportation
- EPA: Environmental Protection Agency
- IARC: International Agency for Research on Cancer
- MSHA: Mine Safety and Health Administration
- N/Av: Not Applicable
- N/Av: Not Available
- NFPA: National Fire Protection Association
- NIOSH: National Institute of Occupational Safety and Health
- NTP: National Toxicology Program
- OSHA: Occupational Safety and Health Administration
- PEL: Permissible exposure limit
- SARA: Superfund Amendments and Reauthorization Act
- STEL: Short Term Exposure Limit
- TDG: Canadian Transportation of Dangerous Goods Act & Regulations
- TLV: Threshold Limit Values
- TWA: Time Weighted Average

Information Source

- : 1. Material Safety Data Sheet from manufacturer.
- 2. Canadian Centre for Occupational Health and Safety, CCInfoWeb Databases
- 3. European Chemicals Agency, Classification Legislation
- 4. OECD - The Global Portal to Information on Chemical Substances

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Regulation and Procedure

:



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Based on expert judgement: not regulated

H-phrases (full-text)

H302 - Harmful if swallowed.

H314 - Causes severe skin burns and eye damage.

H341 - Suspected of causing genetic defects <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>. H350 - May cause cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H351 - Suspected of causing cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H373 - May cause damage to organs (a,b,c) through prolonged or repeated exposure.

Other special considerations for handling

: Provide adequate information, instruction and training for operators.

Prepared for:

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Prepared by:

ICC The Compliance Center Inc.
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