# **De-Ice Master +**

Issue Date: 07/01/20

# Safety Data Sheet

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## SECTION 1: Product and Company Identification

1.1. Product Identifier

Product name: De-Ice Master +

- 1.2. Intended Use of the Product Use of the substance/mixture: Dust control and ice control on roadways
- 1.3. Name, Address, and Telephone of the Responsible Party Michigan Chloride Sales LLC 402 W. Jackson Road St Louis, MI 48880 www.michiganchloride.com
- **1.4.** Emergency telephone number

1-800-286-7312

## SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification (GHS-US) Eye Irritant 2A H319

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US):



Signal word (GHS-US): Hazard statements (GHS-US): Precautionary statements (GHS-US): Warning H319 - Causes serious eye irritation. P264 - Wash hands, forearms, and exposed areas thoroughly after handling. P280 - Wear eye protection. P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 - If eye irritation persists: Get medical advice/attention.

#### 2.3. Other hazards

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

No data available

### SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

## 3.2. Mixtures

Name	Product identifier	% by Weight	Classification (GHS-US)
Water	(CAS No) 7732-18-5	66-74	Not classified
Calcium Chloride	(CAS No) 10043-52-4	18-22	Acute Tox. 4 (Oral), H302
			Eye Irrit. 2A, H319
Potassium Chloride	(CAS No) 7447-40-7		Not classified
Sodium chloride	(CAS No) 7647-14-5	4-6	Not classified
Magnesium Chloride	(CAS No) 7786-30-3	3-5	Not classified

Full text of H-phrases: see section 16

#### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

**First-aid measures general:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**First-aid measures after inhalation:** When symptoms occur: go into open air and ventilate suspected area. **First-aid measures after skin contact:** Remove contaminated clothing. Drench affected area with water for at least 15 minutes.

**First-aid measures after eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical advice if necessary.

First-aid measures after ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical advice if necessary.

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

Symptoms/injuries: Eye irritation.

Symptoms/injuries after inhalation: None expected under normal conditions of use.

Symptoms/injuries after skin contact: May cause skin irritation after long exposures, especially on wet skin.

Symptoms/injuries after eye contact: Causes serious eye irritation.

Symptoms/injuries after ingestion: Ingestion may cause nausea, vomiting and diarrhea.

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

If medical advice is needed, have product container or label at hand.

## SECTION 5: Firefighting measures

- 5.1. Extinguishing media
   Suitable extinguishing media: Does not burn. Use extinguishing media appropriate for surrounding fire.
   Unsuitable extinguishing media: None known.
- 5.2. Special hazards arising from the substance or mixture
  Fire hazard: Not flammable.
  Explosion hazard: Product is not explosive.
  Reactivity: Hazardous reactions will not occur under normal conditions.
- 5.3. Advice for firefighters

**Firefighting instructions:** Exercise caution when fighting any chemical fire. **Protection during firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

#### SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures: Handle in accordance with good industrial hygiene and safety practice.

6.1.1. For non-emergency personnel Protective equipment: Use appropriate personal protection equipment (PPE).

Emergency procedures: Evacuate unnecessary personnel.

## 6.1.2. For emergency responders

**Protective equipment:** Equip cleanup crew with proper protection. Use appropriate personal protection equipment (PPE). Emergency procedures: Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

**For containment:** Absorb and/or contain spill with inert material, then place in suitable container. **Methods for cleaning up:** Clear up spills immediately and dispose of waste safely.

6.4. Reference to other sections

See heading 8, Exposure Controls and Personal Protection.

## SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

**Hygiene measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

## 7.2. Conditions for safe storage, including any incompatibilities Storage conditions: Stora in a dry cool and well-ventilated place. Keen container closed whe

Storage conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use.

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Incompatible products: Strong acids. Strong bases. Strong oxidizers.

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

Dust control and ice control on roadways, road stabilization.

## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

No Occupational Exposure Limits (OELs) have been established for this product or its chemical components.

#### 8.2. Exposure controls

Appropriate engineering controls:

Personal protective equipment:

Ensure exposure is below occupational exposure limits (where available). Ensure all national/local regulations are observed. Protective goggles. Gloves.



Hand protection: Eye protection: Respiratory protection: Wear chemically resistant protective gloves. Chemical goggles or safety glasses. If exposure limits are exceeded or irritation is experienced, NIOSH approved respiratory protection should be worn. When using, do not eat, drink or smoke.

Other information:

### SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

Physical state: Liquid	
Odor: No data available	
Color: Clear to straw yellow	
<b>pH</b> : 5	
Relative evaporation rate (butyl acetate=1	): No data available
Melting point:	No data available
Freezing point:	-20°F
Boiling point:	107 °C (224.6°F)
Flash Point:	No data available
Auto-ignition temperature:	No data available
Decomposition Temperature:	No data available
Flammability (solid, gas):	No data available
Vapor pressure:	17mmHg@25°C
Relative vapor density at 20 °C:	No data available
Relative density:	1.215 - 1.25 (@25°C)
Solubility:	Fully miscible.
Log Pow:	No data available
Log Kow:	No data available
Viscosity, kinematic:	No data available
Viscosity, dynamic:	No data available
Explosive properties:	No data available
Oxidizing properties:	No data available
Explosive limits:	Not applicable
0.2 Other information	

**9.2. Other information** No additional information available

## SECTION 10: Stability and reactivity

**<u>Reactivity</u>** Hazardous reactions will not occur under normal conditions. Hygroscopic substance. <u>Chemical Stability</u> Product is stable under recommended storage and handling conditions. <u>Possibility Of Hazardous Reactions</u> None at normal use. Conditions To Avoid Direct sunlight. Extremely high or low temperatures.

**Incompatible Materials** Strong acids. Strong bases. Strong oxidizers. Calcium Chloride will corrode most metals exposed to air: attack aluminum (and its alloys) and yellow brass: react with sulfuric acid to form hydrogen chloride which is corrosive, irritating, and reactive: give an exothermic reaction with water-reactive materials such as sodium: result in a runaway polymerization reaction with methyl vinyl ether: and, in solution form, react with zinc (galvanizing) to yield hydrogen gas which is explosive. Hazardous Decomposition Products Carbon oxides (CO, CO2). Upon heating, toxic fumes are formed. (chlorine)

#### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity: Not classified Calcium chloride (10043-52-4) LD50 oral rat 1000 mg/kg LD50 dermal rat 2630 mg/kg Magnesium chloride (7786-30-3) LD50 oral rat 2800 mg/kg Sodium chloride (7647-14-5) LD50 oral rat 3 q/kqLD50 dermal rabbit > 10 g/kgLC50 inhalation rat (mg/l) > 42 g/m<sup>3</sup> (Exposure time: 1 h) Potassium chloride (7447-40-7) LD50 oral rat 2600 mg/kg Skin corrosion/irritation: Not classified Serious eye damage/irritation: Causes serious eye irritation. Respiratory or skin sensitization: Not classified Germ cell mutagenicity: Not classified Carcinogenicity: Not classified Reproductive toxicity: Not classified Specific target organ toxicity (single exposure): Not classified Specific target organ toxicity (repeated exposure): Not classified Aspiration hazard: Not classified Symptoms/injuries after inhalation: None expected under normal conditions of use. Symptoms/injuries after skin contact: May cause skin irritation after long exposures, especially on wet skin. Symptoms/injuries after eye contact: Causes serious eye irritation. Symptoms/injuries after ingestion: Ingestion may cause nausea, vomiting and diarrhea. SECTION 12: Ecological information 12.1. Toxicity Calcium chloride (10043-52-4) 10650 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus LC50 fish 1 52 mg/l (Exposure time: 48 h - Species: Daphnia magna) EC50 Daphnia 1 Magnesium chloride (7786-30-3) 4210 mg/l (Exposure time: 96 h - Species: Gambusia affinis LC50 fish 1 [static]) 1400 mg/l (Exposure time: 24 h - Species: Daphnia magna) EC50 Daphnia 1 2200 mg/l (Exposure time: 72 h - Species: Desmodesmus EC50 other aquatic organisms 1 subspicatus) 1970 - 3880 mg/l (Exposure time: 96 h - Species: Pimephales LC50 fish 2 promelas [static]) 140 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static]) EC50 Daphnia 2 Sodium chloride (7647-14-5) 5560 (5560 - 6080) mg/l (Exposure time: 96 h - Species: Lepomis LC50 fish 1 macrochirus [flow-through]) 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna) EC50 Daphnia 1 12946 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus LC50 fish 2 [static]) 340.7 (340.7 - 469.2) mg/l (Exposure time: 48 h - Species: EC50 Daphnia 2 Daphnia magna [Static]) 12.2. Persistence and degradability **Mineral Well Brine** Persistence and degradability Not established.

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12.3. Bioaccumulative potentia	I	
Mineral Well Brine		
<b>Bioaccumulative potential</b>	Not established.	
Calcium chloride (10043-52-4)		
BCF fish 1	(no bioaccumulation)	
Sodium chloride (7647-14-5)		
BCF fish 1	(no bioaccumulation)	
12.4. Mobility in soil:	No additional information available	
12.5. Other adverse effects		
Other information:	Avoid release to the environment.	
SECTION 13: Disposal consid	erations	
13.1. Waste treatment methods Waste disposal recommendations: I regulations. SECTION 14: Transport infor	Dispose of waste material in accordance with all loca	al, regional, national, and international
In accordance with ICAO/IATA/DOT/T 14.1. UN number Not regulated for 14.2. UN proper shipping name 14.3. Additional information Other information: No supplementa Overland transport Not regulated for Transport by sea Not regulated for transport Air transport Not regulated for transport	DG or transport. No data available ary information available. transport. ansport.	
SECTION 15: Regulatory info 15.1. US Federal regulations Calcium chloride (10043-52-4) Listed on the United States TSCA (T	ormation	
Magnesium chloride (7786-30-3)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
Sodium chloride (7647-14-5)		
	oxic Substances Control Act) inventory	
Water (7732-18-5)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
15.3. US State regulations		
Calcium chloride (10043-52-4)		
U.S Texas - Effects Screening Leve	els - Long Term	

U.S. - Texas - Effects Screening Levels - Long Term U.S. - Texas - Effects Screening Levels - Short Term

#### Magnesium chloride (7786-30-3)

U.S. - Texas - Effects Screening Levels - Long Term U.S. - Texas - Effects Screening Levels - Short Term

#### Sodium chloride (7647-14-5)

U.S. - Texas - Effects Screening Levels - Long Term

U.S. - Texas - Effects Screening Levels - Short Term

#### SECTION 16: Other information

Other information: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

**GHS Full Text Phrases:** 

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
H302	Harmful if swallowed
H319	Causes serious eye irritation

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. SDS US (GHS HazCom) - US





## 1. Identification

1. Identification			
Product identifier	12B103 Corn Condensed Distillers Solubles		
Other means of identification	Not available.		
Recommended use	Not available.		
<b>Recommended restrictions</b>	None known.		
Manufacturer/Importer/Supplier/I	Distributor information		
Manufacturer			
Company name Address	Grain Processing Corporation P.O. Box 349		
	1600 Oregon Street Muscatine, Iowa 52761 USA		
Telephone	For Other Information, call:	(563) 264-4265 (M-F 8am-5pm)	
	24-hour Assistance:	(563) 264-4304	
Website E-mail	www.grainprocessing.com Not available.		
Emergency phone number	24-hour CHEMTREC US	1-800-424-9300	
	24-hour CHEMTREC International	1-703-527-3887	
2. Hazard(s) identification			
Physical hazards	Not classified.		
Health hazards	Not classified.		
Environmental hazards	Not classified.		
OSHA defined hazards	Not classified.		
Label elements			
Hazard symbol	None.		
Signal word	None.		
Hazard statement	The substance does not meet the criteria for classification.		
Prevention	Observe good industrial hygiene practices.		
Response	Wash hands after handling.		
Storage	Store away from incompatible materials.		
Disposal	Dispose of waste and residues in accordance with local authority requirements.		
Hazard(s) not otherwise classified (HNOC)	None known.		
Supplemental information	Not applicable.		

## 3. Composition/information on ingredients

#### Substances

Chemical name	Common name and synonyms	CAS number	%
Corn Condensed Distillers Solubles		1004791-87-0	~42%
Water		7732-18-5	~58%

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures	
Inhalation	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.
Skin contact	Rinse skin with water/shower. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.

Indication of immediate medical attention and special treatment needed	Treat symptomatically.
General information	If you feel unwell, seek medical advice (show the label where possible).
5. Fire-fighting measures	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire-fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Move containers from fire area if you can do so without risk.
General fire hazards	No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. For waste disposal, see section 13 of the SDS. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
Environmental precautions	Never return spills to original containers for re-use. Prevent further leakage or spillage if safe to do so.

## 7. Handling and storage

Precautions for safe handlingUse care in handling/storage.Conditions for safe storage,<br/>including any incompatibilitiesStore in original tightly closed container. Store away from incompatible materials (see Section 10<br/>of the SDS).

## 8. Exposure controls/personal protection

	-
Occupational exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

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

Eye/face protection	Not normally needed.
Hand protection	Not normally needed.
Other	Wear suitable protective clothing.
<b>Respiratory protection</b>	No personal respiratory protective equipment normally required.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

#### 9. Physical and chemical properties

Appearance	Syrup
Physical state	Liquid.
Form	Liquid. Syrup
Color	Brown, hazy syrup
Odor	Slight Cereal Note
Odor threshold	Not available.

рН	Not available.	
Melting point/freezing point	Not available.	
Initial boiling point and boiling	< 248 °F (< 120 °C)	
range		
Flash point	Not available.	
Evaporation rate	Not available.	
Flammability (solid, gas)	Not available.	
Upper/lower flammability or explosive limits		
Flammability limit - lower (%)	Not available.	
Flammability limit - upper (%)	Not available.	
Explosive limit - lower (%)	Not available.	
Explosive limit - upper (%)	Not available.	
Vapor pressure	Not available.	
Vapor density	Not available.	
Relative density	Not available.	
Solubility(ies)		
Solubility (water)	Very Soluble	
Partition coefficient (n-octanol/water)	Not available.	
Auto-ignition temperature	Not available.	
Decomposition temperature	Not available.	
Viscosity	Not available.	
Other information		
Specific gravity	> 1	

## 10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.	
Chemical stability	Material is stable under normal conditions.	
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.	
Conditions to avoid	Contact with incompatible materials.	
Incompatible materials	Strong oxidizing agents. and Alkalies.	
Hazardous decomposition products	Carbon oxides.	

## 11. Toxicological information

## Information on likely routes of exposure

Ingestion	Expected to be a low ingestion hazard.	
Inhalation	No adverse effects due to inhalation are expected. Skin	
contact	No adverse effects due to skin contact are expected.	
Eye contact	Direct contact with eyes may cause temporary irritation.	
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.	
Information on toxicological effe	cts	
Acute toxicity	Not available.	
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.	
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.	
Respiratory or skin sensitization		
<b>Respiratory sensitization</b>	Not available.	
Skin sensitization	This product is not expected to cause skin sensitization.	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.	

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Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.	
Specific target organ toxicity - single exposure	Not classified.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not available.	
12. Ecological information		
Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.	
Persistence and degradability	No data is available on the degradability of this product	

Persistence and degradability	No data is available on the degradability of this product.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

### 13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.	
Local disposal regulations	Dispose in accordance with all applicable regulations.	
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.	
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).	
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.	

## 14. Transport information

#### DOT

Not regulated as dangerous goods.

#### ΙΑΤΑ

Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not available. Annex II of MARPOL 73/78 and the IBC Code

### 15. Regulatory information

#### **US** federal regulations

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

## Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
SARA 302 Extremely hazardous substance	No
SARA 311/312 Hazardous chemical	No
SARA 313 (TRI reporting) Not regulated.	

### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Not regulated. (SDWA)

#### **US state regulations**

US. Massachusetts RTK - Substance List

Not regulated.

US. Rhode Island RTK

Not regulated.

#### **US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

## International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

Issue date	04-28-2015
Version #	01
Further information	HMIS® is a registered trade and service mark of the American Coatings Association
HMIS® ratings	Health: 0 Flammability: 0 Physical hazard: 0
NFPA ratings	Health: 0 Flammability: 0 Instability: 0
References	ACGIH EPA: AQUIRE database NLM: Hazardous Substances Data Base US. IARC Monographs on Occupational Exposures to Chemical Agents
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