

NAPA® MAC'S WINDSHIELD DEICER

Version 1.1 Revision Date: 07/21/2016 MSDS Number: 600000000431 Date of last issue: 05/23/2016
Date of first issue: 05/23/2016

SECTION 1. IDENTIFICATION

Product name : NAPA® MAC'S WINDSHIELD DEICER DEICER

Product code : 7000

Manufacturer or supplier's details

Company name of supplier : Niteo Products,LLC

Address : Dallas TX 19162

Telephone : 1-844-696-4836

Emergency telephone number : 1-800-424-9300

*Napa Mac's Windshield
De-Icer Melts Frost
and Ice Fast Harmless To
Finish 7000*

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable aerosols : Category 2

Acute toxicity (Oral) : Category 3

Acute toxicity (Inhalation) : Category 3

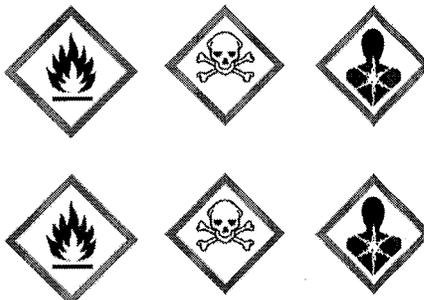
Acute toxicity (Dermal) : Category 3

Specific target organ toxicity - single exposure : Category 1 (Central nervous system, Eyes)

Specific target organ toxicity - repeated exposure (Oral) : Category 2 (Kidney, Liver)

GHS Label element

Hazard pictograms :



Signal word : Danger
Danger

Hazard statements : H223 Flammable aerosol.
H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaled

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H370 Causes damage to organs (Central nervous system, Eyes).
 H373 May cause damage to organs (Kidney, Liver) through prolonged or repeated exposure if swallowed.
 H223 Flammable aerosol.
 H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaled
 H370 Causes damage to organs (Central nervous system, Eyes).
 H373 May cause damage to organs (Kidney, Liver) through prolonged or repeated exposure if swallowed.

Precautionary statements
Prevention:

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Pressurized container: Do not pierce or burn, even after use.

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ protective clothing.

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Pressurized container: Do not pierce or burn, even after use.

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ protective clothing.

Response:

P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Rinse mouth.

P302 + P352 + P312 IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/ physician if you feel unwell.

P304 + P340 + P311 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician.

P307 + P311 IF exposed: Call a POISON CENTER or doctor/ physician.

P362 Take off contaminated clothing and wash before reuse.

P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Rinse mouth.

P302 + P352 + P312 IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/ physician if you feel unwell.

P304 + P340 + P311 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician.

P307 + P311 IF exposed: Call a POISON CENTER or doctor/ physician.

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P362 Take off contaminated clothing and wash before reuse.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Substance name : Blend used in aerosol is R0262703

Hazardous components

Chemical Name	CAS-No.	Concentration (% w/w)
METHANOL	67-56-1	>= 50 - < 70
ETHYLENE GLYCOL	107-21-1	>= 5 - < 10
CARBON DIOXIDE	124-38-9	>= 1 - < 5
MORPHOLINE	110-91-8	>= 0.1 - < 1

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.
 Consult a physician.
 Show this safety data sheet to the doctor in attendance.
 Do not leave the victim unattended.

If inhaled : If unconscious place in recovery position and seek medical advice.
 If symptoms persist, call a physician.
 Move to fresh air.
 Keep patient warm and at rest.

In case of skin contact : Wash off with warm water and soap.
 Wash contaminated clothing before re-use.

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- In case of eye contact : Flush eyes with water as a precaution.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
- If swallowed : Get medical attention immediately.
Rinse mouth with water.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
- Most important symptoms and effects, both acute and delayed : Toxic if swallowed, in contact with skin or if inhaled
Causes damage to organs.
May cause damage to organs through prolonged or repeated exposure if swallowed.
Effects of acute ethylene glycol poisoning appear in three fairly distinct stages. The initial stage occurs shortly after exposure, lasts 6-12 hours, and is characterized by central nervous system effects (transient exhilaration, nausea, vomiting, and in severe cases, coma, convulsions, and possible death). The second stage lasts from 12-36 hours after exposure and is initiated by the onset of coma. This phase is characterized by tachypnea, tachycardia, mild hypotension, cyanosis, and in severe cases, pulmonary edema, bronchopneumonia, cardiac enlargement, and congestive failure. The final stage occurs 24-72 post-exposure and is characterized by renal failure, ranging from a mild increase in blood urea nitrogen and creatinine followed by recovery, to complete anuria with acute tubular necrosis that can lead to death. Oxaluria is found in most cases. The most significant laboratory finding in ethylene glycol intoxication is severe metabolic acidosis.
- Notes to physician : This product contains ethylene glycol. Ethanol decreases the metabolism of ethylene glycol to toxic metabolites. Ethanol should be administered as soon as possible in cases of severe poisoning since the elimination half-life of ethylene glycol is 3 hours. If medical care will be delayed several hours, give the patient three to four 1-ounce oral "shots" of 86-proof or higher whiskey before or during transport to the hospital. Fomepizole (4-methylpyrazole) is an effective antagonist of alcohol dehydrogenase, and as such, may be used as an antidote in the treatment of ethylene glycol poisoning. Hemodialysis effectively removes ethylene glycol and its metabolites from the body.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray
Carbon dioxide (CO2)
Dry chemical
Alcohol-resistant foam

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- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire-fighting : Do not use a solid water stream as it may scatter and spread fire.
Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Carbon oxides
Aldehydes
- Specific extinguishing methods : Product is compatible with standard fire-fighting agents.
- Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Use a water spray to cool fully closed containers.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
-

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Remove all sources of ignition.
Ensure adequate ventilation.
Avoid breathing dust.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
Evacuate personnel to safe areas.
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.
Comply with all applicable local, state and federal regulations.
- Environmental precautions : Prevent further leakage or spillage if safe to do so.
Prevent product from entering drains.
Do not flush into surface water or sanitary sewer system.
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
-

SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Keep away from open flames, hot surfaces and sources of ignition. Use only explosion-proof equipment. Do not spray on a naked

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flame or any incandescent material.

Advice on safe handling : Open drum carefully as content may be under pressure.
Provide sufficient air exchange and/or exhaust in work rooms.
Do not breathe vapours/dust.
Do not smoke.
Take precautionary measures against static discharges.
Dispose of rinse water in accordance with local and national regulations.
Container hazardous when empty.
Smoking, eating and drinking should be prohibited in the application area.
For personal protection see section 8.

Conditions for safe storage : BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects.
Keep container tightly closed in a dry and well-ventilated place.
Observe label precautions.
No smoking.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
METHANOL	67-56-1	TWA	200 ppm	ACGIH
		STEL	250 ppm	ACGIH
		TWA	200 ppm 260 mg/m ³	NIOSH REL
		ST	250 ppm 325 mg/m ³	NIOSH REL
		TWA	200 ppm 260 mg/m ³	OSHA Z-1
		STEL	250 ppm 325 mg/m ³	OSHA P0
ETHYLENE GLYCOL	107-21-1	C (Aerosol only)	100 mg/m ³	ACGIH
		C	50 ppm 125 mg/m ³	OSHA P0
CARBON DIOXIDE	124-38-9	TWA	5,000 ppm	ACGIH
		STEL	30,000 ppm	ACGIH
		TWA	5,000 ppm 9,000 mg/m ³	NIOSH REL
		ST	30,000 ppm 54,000 mg/m ³	NIOSH REL
		TWA	5,000 ppm	OSHA Z-1

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			9,000 mg/m ³	
		TWA	10,000 ppm 18,000 mg/m ³	OSHA P0
		STEL	30,000 ppm 54,000 mg/m ³	OSHA P0
MORPHOLINE	110-91-8	TWA	20 ppm	ACGIH
		TWA	20 ppm 70 mg/m ³	NIOSH REL
		ST	30 ppm 105 mg/m ³	NIOSH REL
		TWA	20 ppm 70 mg/m ³	OSHA Z-1
		TWA	20 ppm 70 mg/m ³	OSHA P0
		STEL	30 ppm 105 mg/m ³	OSHA P0

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sam-pling time	Permissible concentra-tion	Basis
METHANOL	67-56-1	Methanol	Urine	End of shift (As soon as possible after exposure ceases)	15 mg/l	ACGIH BEI

Engineering measures : Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Personal protective equipment

Respiratory protection : Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust).
Use NIOSH approved respiratory protection.

Hand protection

Remarks : Wear resistant gloves (consult your safety equipment supplier). The suitability for a specific workplace should be discussed with the producers of the protective gloves. Discard gloves that show tears, pinholes, or signs of wear.

Eye protection : Not required under normal conditions of use. Wear splash-proof safety goggles if material could be misted or splashed into eyes.

Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Wear as appropriate:

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Impervious clothing
 Flame-resistant clothing
 Safety shoes
 Remove and wash contaminated clothing before re-use.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
 Avoid contact with skin, eyes and clothing.
 Wash hands before breaks and immediately after handling the product.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	aerosol
Odour	:	No data available
pH	:	No data available
Melting point/freezing point	:	No data available
Boiling point/boiling range	:	64.7 °C (1,013.25 hPa) Value for Component
Flash point	:	12 °C The value is calculated
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Upper explosion limit	:	36 %(V) The value is calculated
Lower explosion limit	:	3.2 %(V) The value is calculated
Vapour pressure	:	169.3164 hPa (25 °C) Value for Component
Density	:	0.7972 g/cm ³ (15.56 °C)
Solubility(ies) Water solubility	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Viscosity Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Oxidizing properties	:	No data available

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Heat of combustion : estimated 15.35 kJ/g

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : Vapours may form explosive mixture with air.

Conditions to avoid : Heat, flames and sparks.
Exposure to sunlight.

Incompatible materials : Aldehydes
Alkali metals
Alkaline earth metals
Aluminium
Lead
Strong acids
Strong bases
Strong oxidizing agents
Sulphur compounds
Zinc
Peroxides

SECTION 11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure**

Inhalation
Eye contact
Skin contact

Acute toxicity

Toxic if swallowed, in contact with skin or if inhaled

Product:

Acute oral toxicity : Acute toxicity estimate: 159.13 mg/kg
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: 0.8 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: 479.17 mg/kg
Method: Calculation method

Components:**METHANOL:**

Acute oral toxicity : LDLo (Humans): 300 mg/kg

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Assessment: The component/mixture is toxic after single ingestion.

Acute inhalation toxicity : Assessment: The component/mixture is toxic after short term inhalation.

Acute dermal toxicity : LD50 (Rabbit): 12,800 mg/kg
 Assessment: The component/mixture is toxic after single contact with skin.

ETHYLENE GLYCOL:

Acute oral toxicity : LD50 (Rat): 6,140 mg/kg

LD50 (Humans): estimated 1.56 g/kg
 Assessment: The component/mixture is moderately toxic after single ingestion.

Acute inhalation toxicity : LC50 (Rat): 10.9 mg/l
 Exposure time: 1 h
 Test atmosphere: dust/mist
 Assessment: No adverse effect has been observed in acute inhalation toxicity tests.

Acute dermal toxicity : LD50 (Rabbit): 9,530 mg/kg

MORPHOLINE:

Acute oral toxicity : LD50 (Rat): ca. 1,900 mg/kg
 Method: OECD Test Guideline 401

Acute inhalation toxicity : Assessment: The component/mixture is toxic after short term inhalation.

Acute dermal toxicity : LD50 (Rabbit): ca. 500 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Product:

Result: Repeated exposure may cause skin dryness or cracking.

Components:
METHANOL:

Species: Rabbit

Result: No skin irritation

ETHYLENE GLYCOL:

Result: Mild skin irritation

CARBON DIOXIDE:

Assessment: No skin irritation

Result: No skin irritation

MORPHOLINE:

Result: Corrosive after 3 minutes or less of exposure

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Serious eye damage/eye irritation

Not classified based on available information.

Product:

Remarks: No eye irritation

Remarks: Unlikely to cause eye irritation or injury.

Components:**METHANOL:**

Species: Rabbit

Result: Possibly irritating to eyes

ETHYLENE GLYCOL:

Result: Possibly irritating to eyes

CARBON DIOXIDE:

Result: No eye irritation

MORPHOLINE:

Result: Irreversible effects on the eye

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Components:**METHANOL:**

Test Type: Maximisation Test (GPMT)

Species: Guinea pig

Assessment: Does not cause skin sensitisation.

Method: OECD Test Guideline 406

Germ cell mutagenicity

Not classified based on available information.

Components:**MORPHOLINE:**

Genotoxicity in vitro

: Test Type: unscheduled DNA synthesis assay
Species: rat hepatocytes
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 482
Result: negative

: Test Type: In vitro mammalian cell gene mutation test
Species: mouse lymphoma cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: positive

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Carcinogenicity

Not classified based on available information.

IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Causes damage to organs (Central nervous system, Eyes).

Components:**METHANOL:**

Target Organs: Central nervous system, Eyes

Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 1.

STOT - repeated exposure

May cause damage to organs (Kidney, Liver) through prolonged or repeated exposure if swallowed.

Components:**ETHYLENE GLYCOL:**

Exposure routes: Ingestion

Target Organs: Kidney, Liver

Assessment: May cause damage to organs through prolonged or repeated exposure.

Aspiration toxicity

Not classified based on available information.

Further information**Product:**

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

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Waste from residues : Dispose of in accordance with all applicable local, state and federal regulations.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION

International Regulation

IATA-DGR

UN/ID No. : UN 1950

Proper shipping name : Aerosols, flammable, containing substances in Division 6.1, Packing Group III

Class : 2.1

Subsidiary risk : 6.1

Packing group : Not assigned by regulation

Labels : Flammable Gas, Toxic

Packing instruction (cargo aircraft) : 203

Packing instruction (passenger aircraft) : 203

IMDG-Code

UN number : UN 1950

Proper shipping name : AEROSOLS, FLAMMABLE, CONTAINING SUBSTANCES IN DIVISION 6.1, PACKING GROUP III

Class : 2.1

Subsidiary risk : 6.1

Packing group : Not assigned by regulation

Labels : 2.1 (6.1)

EmS Code : F-D, S-U

Marine pollutant : no

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

Not applicable for product as supplied.

National Regulations

49 CFR

UN/ID/NA number : UN 1950

Proper shipping name : AEROSOLS, FLAMMABLE, CONTAINING SUBSTANCES IN DIVISION 6.1, PACKING GROUP III

Class : 2.1

Packing group : Not assigned by regulation

Labels : Class 2 - Gases: Flammable (Division 2.1)

ERG Code : 126

Marine pollutant : no

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SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Component RQ (lbs)
METHANOL	67-56-1	5000	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Fire Hazard
 Chronic Health Hazard
 Acute Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

METHANOL	67-56-1	62.458 %
ETHYLENE GLYCOL	107-21-1	5.921 %

US State Regulations

Massachusetts Right To Know

METHANOL	67-56-1	50 - 70 %
ETHYLENE GLYCOL	107-21-1	5 - 10 %
CARBON DIOXIDE	124-38-9	1 - 5 %

Pennsylvania Right To Know

METHANOL	67-56-1	50 - 70 %
WATER	7732-18-5	20 - 30 %
ETHYLENE GLYCOL	107-21-1	5 - 10 %
CARBON DIOXIDE	124-38-9	1 - 5 %

New Jersey Right To Know

METHANOL	67-56-1	50 - 70 %
WATER	7732-18-5	20 - 30 %
ETHYLENE GLYCOL	107-21-1	5 - 10 %
CARBON DIOXIDE	124-38-9	1 - 5 %

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive

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harm.

TSCA list

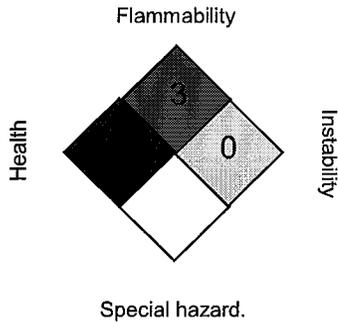
The following substance(s) is/are subject to a Significant New Use Rule:
ETHYLENE GLYCOL MONOMETHYL ETHER 109-86-4

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Further information

NFPA:



HMIS III:

HEALTH	2*
FLAMMABILITY	3
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

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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.

US / EN