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29 CFR 1910.1200 (OSHA HazCom 2012)

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

**Product identifier**

Trade name : Valvoline™ SYNTHETIC DOT 3&4 BRAKE FLUID

**Recommended use of the chemical and restrictions on use**

<p><b>Details of the supplier of the safety data sheet</b>  Niteo Products, LLC  P.O. Box 191629  Dallas TX 75219  United States of America</p>	<p><b>Emergency telephone number</b>  CHEMTREC DIRECT 1-800-424-9300</p> <p><b>Product Information</b>  1-844-696-4836</p>
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**SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification**

Serious eye damage : Category 1

Reproductive toxicity : Category 2

**GHS Label element**

Hazard pictograms :  

Signal Word : Danger

Hazard Statements : Causes serious eye damage.  
Suspected of damaging fertility or the unborn child.

Precautionary Statements : **Prevention:**  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Wear protective gloves/ protective clothing/ eye protection/ face protection.  
**Response:**  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.

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IF exposed or concerned: Get medical advice/ attention.

**Storage:**

Store locked up.

**Disposal:**

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

**Other hazards**

None known.

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**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

Chemical nature : Defatter

**Hazardous components**

Chemical Name	CAS-No.	Classification	Concentration (%)
Triethylene glycol monomethyl ether, borate	30989-05-0	Not a hazardous substance or mixture.	40.00
TRIETHYLENE GLYCOL MONOBUTYL ETHER	143-22-6	Eye Dam. 1; H318	17.99
POLYOXYETHYLENE MONOBUTYL ETHER	9004-77-7	Eye Dam. 1; H318	13.00
TETRAETHYLENE GLYCOL	112-60-7	Not a hazardous substance or mixture.	10.00
TRIETHYLENE GLYCOL	112-27-6	Not a hazardous substance or mixture.	5.00
PENTAETHYLENE GLYCOL	4792-15-8	Not a hazardous substance or mixture.	5.00
DIISOPROPANOLAMINE	110-97-4	Eye Irrit. 2A; H319	1.50
DIETHYLENE GLYCOL MONOMETHYL ETHER	111-77-3	Repr. 2; H361	0.99

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#### 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 breathed in, move person into fresh air.  
If unconscious place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.
- In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Continue rinsing eyes during transport to hospital.  
Remove contact lenses.  
Protect unharmed eye.
- If swallowed : Obtain medical attention.  
Do NOT induce vomiting.  
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 : Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:  
stomach or intestinal upset (nausea, vomiting, diarrhea)  
irritation (nose, throat, airways)  
Causes serious eye damage.  
Suspected of damaging fertility or the unborn child.
- Notes to physician :

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#### SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Water spray  
Foam  
Carbon dioxide (CO2)  
Dry chemical

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- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : If product is heated above its flash point it will produce vapors sufficient to support combustion. Vapors are heavier than air and may travel along the ground and be ignited by heat, pilot lights, other flames and ignition sources at locations near the point of release.  
Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : carbon dioxide and carbon monoxide  
Hydrocarbons  
Alcohols  
Aldehydes  
ethers  
Nitrogen oxides (NOx)
- Specific extinguishing methods :  
  
Product is compatible with standard fire-fighting agents.
- Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Ensure adequate ventilation.  
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.
- Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.
- Other information : Comply with all applicable federal, state, and local regulations.

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## SECTION 7. HANDLING AND STORAGE

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Advice on safe handling : Do not breathe vapours/dust.  
 Do not smoke.  
 Container hazardous when empty.  
 Avoid contact with skin and eyes.  
 Smoking, eating and drinking should be prohibited in the application area.  
 For personal protection see section 8.  
 Dispose of rinse water in accordance with local and national regulations.


Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.  
 Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
 Observe label precautions.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**
**Components with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Triethylene glycol monomethyl ether, borate	30989-05-0	TWA	2 mg/m3 Inhalable fraction.	ACGIH
		STEL	6 mg/m3 Inhalable fraction.	ACGIH
TETRAETHYLENE GLYCOL	112-60-7	TWA	10 mg/m3 Particulate.	WEEL
				WEEL
TRIETHYLENE GLYCOL	112-27-6	TWA	10 mg/m3 Particulate.	WEEL
				WEEL
PENTAETHYLENE GLYCOL	4792-15-8			WEEL
		TWA	10 mg/m3 Particulate.	WEEL
DIISOPROPANOLAMINE	110-97-4	TWA	10 ppm	SUPLR EXP
		TWA	10 ppm	SUPLR EXP
		TWA	10 ppm	SUPLR EXP
		TWA	10 ppm	SUPLR EXP

**Hazardous components without workplace control parameters**

Components	CAS-No.
TRIETHYLENE GLYCOL MONOBUTYL ETHER	143-22-6
POLYOXYETHYLENE MONOBUTYL ETHER	9004-77-7

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DIETHYLENE GLYCOL MONOMETHYL ETHER	111-77-3
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**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** : A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

**Hand protection**  
Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

**Eye protection** : Wear chemical splash goggles and face shield when there is potential for exposure of the eyes or face to liquid, vapor or mist.  
Maintain eye wash station in immediate work area.

**Skin and body protection** : Wear as appropriate:  
Impervious clothing  
Safety shoes  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
Wear resistant gloves (consult your safety equipment supplier).

**Hygiene measures** : Wash hands before breaks and at the end of workday.  
When using do not eat or drink.

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When using do not smoke.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

- Physical state : liquid
- Colour : yellow
- Odour : ammoniacal
- Odour Threshold : No data available  
No data available
- pH : 7.7
- Melting point/freezing point : < -74 °F / < -59 °C
- Boiling point/boiling range : > 469 °F / > 243 °C
- Flash point : 270 °F / 132 °C  
Method: Closed Cup
- Evaporation rate : No data available  
No data available
- Flammability (solid, gas) : No data available  
No data available
- Upper explosion limit : No data available  
No data available
- Lower explosion limit : No data available  
No data available
- Vapour pressure : Estimated < 0.01 mmHg
- Relative vapour density : > 10AIR=1
- Relative density : No data available  
No data available
- Density : 1.03 - 1.08 g/cm3
- Solubility(ies)  
Water solubility : soluble

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Solubility in other solvents : No data available

No data available

Partition coefficient: n-octanol/water : No data available

No data available

Thermal decomposition : No data available

No data available

Viscosity

Viscosity, dynamic : No data available

No data available

Viscosity, kinematic : 1100 mm<sup>2</sup>/s (40 °C)

Oxidizing properties : No data available

No data available

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No decomposition if stored and applied as directed.

No decomposition if stored and applied as directed.

Chemical stability : Stable under recommended storage conditions.


Stable under recommended storage conditions.

Possibility of hazardous reactions : Product will not undergo hazardous polymerization.

Conditions to avoid : excessive heat  
Do not allow evaporation to dryness.

Incompatible materials : Acids  
Alkaline earth metals  
aluminum  
Bases  
Copper  
galvanized metals  
halogenated hydrocarbons  
nitrites  
strong alkalis  
Strong oxidizing agents  
Zinc



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Hazardous decomposition products

acetaldehyde  
Alcohols  
Aldehydes  
carbon dioxide and carbon monoxide  
dioxolanes  
ethers  
ethylene glycol monomethyl ether  
formaldehyde-like  
Nitrogen oxides (NOx)  
Organic acids  
ketones

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## SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation  
Skin contact  
Eye Contact  
Ingestion

### Acute toxicity

Not classified based on available information.

### Components:

Triethylene glycol monomethyl ether, borate:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 401  
Assessment: No adverse effect has been observed in acute oral toxicity tests.

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: No adverse effect has been observed in acute dermal toxicity tests.

### TRIETHYLENE GLYCOL MONOBUTYL ETHER:

Acute oral toxicity : LD 50 (Rat): 5,300 mg/kg

Acute dermal toxicity : LD 50 (Rabbit): 3,502 mg/kg

### POLYOXYETHYLENE MONOBUTYL ETHER:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rabbit): 3,540 mg/kg

### TETRAETHYLENE GLYCOL:

Acute oral toxicity : LD 50 (Rat): ca. 30,000 mg/kg

Acute dermal toxicity : LD 50 (Rabbit): 22,460 mg/kg

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**TRIETHYLENE GLYCOL:**

Acute oral toxicity : LD 50 (Rat): 15,000 - 22,000 mg/kg

 Acute inhalation toxicity : LC 50 (Rat): > 3.9 mg/l  
 Exposure time: 4 h  
 Assessment: Not classified as acutely toxic by inhalation under GHS.

Acute dermal toxicity : LD 50 (Rabbit): &gt; 22.6 g/kg

 Acute toxicity (other routes of administration) : LD 50 (Rat): 11,700 mg/kg  
 Application Route: Intravenous

**DIISOPROPANOLAMINE:**

 Acute oral toxicity : LD 50 (Rat): > 2,000 mg/kg  
 Assessment: No adverse effect has been observed in acute oral toxicity tests.

Acute dermal toxicity : LD 50 (Rabbit): 8,000 mg/kg

**DIETHYLENE GLYCOL MONOMETHYL ETHER:**

 Acute oral toxicity : LD50 (Mouse): > 5,288 mg/kg  
 Method: OECD Test Guideline 401  
 GLP: no

 Acute inhalation toxicity : LC0 (Rat): > 1.2 mg/l  
 Exposure time: 6 h  
 Test atmosphere: vapour  
 Method: OECD Test Guideline 403

 Acute dermal toxicity : LD50 (Rabbit): 9,404 mg/kg  
 Method: OECD Test Guideline 402

**Skin corrosion/irritation**

Not classified based on available information.

**Product:**

Result: Repeated exposure may cause skin dryness or cracking.

**Components:**

 Triethylene glycol monomethyl ether, borate:  
 Result: No skin irritation

**TRIETHYLENE GLYCOL MONOBUTYL ETHER:**

Result: No skin irritation


**POLYOXYETHYLENE MONOBUTYL ETHER:**

Result: Slightly irritating to skin

**TETRAETHYLENE GLYCOL:**

Result: No skin irritation

**TRIETHYLENE GLYCOL:**

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Result: No skin irritation

PENTAETHYLENE GLYCOL:  
Result: Slightly irritating to skin

DIISOPROPANOLAMINE:  
Result: No skin irritation

DIETHYLENE GLYCOL MONOMETHYL ETHER:  
Species: Rabbit  
Method: OECD Test Guideline 404  
Result: No skin irritation

**Serious eye damage/eye irritation**

Causes serious eye damage.

**Product:**

Remarks: May cause irreversible eye damage.

**Components:**

Triethylene glycol monomethyl ether, borate:  
Result: Slightly irritating to eyes

TRIETHYLENE GLYCOL MONOBUTYL ETHER:  
Result: Corrosive

POLYOXYETHYLENE MONOBUTYL ETHER:  
Result: Corrosive

TETRAETHYLENE GLYCOL:  
Result: Mildly irritating to eyes

TRIETHYLENE GLYCOL:  
Result: Mildly irritating to eyes

PENTAETHYLENE GLYCOL:  
Result: Slightly irritating to eyes

DIISOPROPANOLAMINE:  
Result: Severely irritating to eyes

DIETHYLENE GLYCOL MONOMETHYL ETHER:  
Species: Rabbit  
Result: Slightly irritating to eyes  
Method: OECD Test Guideline 405


**Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

**Components:**

POLYOXYETHYLENE MONOBUTYL ETHER:  
Test Type: Maximisation Test (GPMT)  
Species: Guinea pig  
Method: OECD Test Guideline 406

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Result: Did not cause sensitisation on laboratory animals.

**DIETHYLENE GLYCOL MONOMETHYL ETHER:**

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:**

**PENTAETHYLENE GLYCOL:**

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro  
 Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test  
 Test species: Mouse  
 Cell type: Bone marrow  
 Result: negative

**DIETHYLENE GLYCOL MONOMETHYL ETHER:**

Genotoxicity in vitro : Test Type: Ames test  
 Test species: Salmonella typhimurium  
 Metabolic activation: with and without metabolic activation  
 Method: OECD Test Guideline 471  
 Result: negative

**Carcinogenicity**

Not classified based on available information.

**Reproductive toxicity**

Suspected of damaging fertility or the unborn child.

**Components:**

**DIETHYLENE GLYCOL MONOMETHYL ETHER:**

Reproductive toxicity - : Some evidence of adverse effects on development, based on  
 Assessment animal experiments.

**STOT - single exposure**

Not classified based on available information.

**STOT - repeated exposure**

Not classified based on available information.

**Aspiration toxicity**

Not classified based on available information.

**Further information**

**Product:**

Remarks: No data available


**Carcinogenicity:**

**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

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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.

**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Product:**

Ecotoxicology Assessment

Acute aquatic toxicity : Acute aquatic toxicity Category 3; Harmful to aquatic life.

Chronic aquatic toxicity : Chronic aquatic toxicity Category 3; Harmful to aquatic life with long lasting effects.

**Components:**

Triethylene glycol monomethyl ether, borate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l  
 Exposure time: 96 h  
 Test Type: semi-static test  
 Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Water flea (Daphnia magna)): >= 500 mg/l  
 Exposure time: 48 h

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (algae)): > 100 mg/l  
 Exposure time: 72 h  
 Method: OECD Test Guideline 201

POLYOXYETHYLENE MONOBUTYL ETHER:

Toxicity to fish : LC50 (Flatfish, flounder (Scophthalmus maximus)): > 1,800 mg/l  
 Exposure time: 96 h  
 Test Type: semi-static test  
 Method: OECD Test Guideline 203

Toxicity to algae : ErC50 (Skeletonema costatum (marine diatom)): 391 mg/l  
 Exposure time: 72 h

TETRAETHYLENE GLYCOL:

Toxicity to fish : LC 50 (Pimephales promelas (fathead minnow)): > 1,000 mg/l  
 Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : LC 50 (Water flea (Daphnia magna)): 7,746 mg/l  
 Exposure time: 48 h

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Toxicity to algae : IC50 (Pseudokirchneriella subcapitata (green algae)): > 1,000 mg/l

**TRIETHYLENE GLYCOL:**

Toxicity to fish : LC 50 (Bluegill (Lepomis macrochirus)): > 10,000 mg/l  
 Exposure time: 96 h  
 Method: Static  
 Remarks: Mortality

Toxicity to daphnia and other aquatic invertebrates : EC 50 (Water flea (Daphnia magna)): 46,500 mg/l  
 Exposure time: 48 h  
 Method: Static  
 Remarks: Intoxication

**DIISOPROPANOLAMINE:**

Toxicity to fish : LC 50 (Carassius auratus (goldfish)): 1,100 mg/l  
 Exposure time: 24 h  
 Test Type: static test

**DIETHYLENE GLYCOL MONOMETHYL ETHER:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 5,741 mg/l  
 Exposure time: 96 h  
 Test Type: static test

LC 50 (Bluegill (Lepomis macrochirus)): 7,500 mg/l  
 Exposure time: 96 h  
 Method: Static  
 Remarks: Mortality

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1,192 mg/l  
 Exposure time: 48 h  
 Test Type: static test

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): > 1,000 mg/l  
 End point: Biomass  
 Exposure time: 96 h  
 Test Type: static test  
 Method: OECD Test Guideline 201


**Persistence and degradability**
**Components:**

Triethylene glycol monomethyl ether, borate:

Biodegradability : Biodegradation: > 70 %  
 Exposure time: 28 d  
 Method: OECD Test Guideline 301A

**TETRAETHYLENE GLYCOL:**

Biodegradability : Biodegradation: 40 %  
 Exposure time: 28 d  
 Method: OECD Test Guideline 301D

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**TRIETHYLENE GLYCOL:**

Biodegradability : Result: Readily biodegradable

**DIETHYLENE GLYCOL MONOMETHYL ETHER:**

Biodegradability : aerobic  
 Inoculum: activated sludge  
 Result: Readily biodegradable  
 Biodegradation: 100 %  
 Exposure time: 28 d

**Bioaccumulative potential**

**Components:**

**TETRAETHYLENE GLYCOL:**

Partition coefficient: n-octanol/water : log Pow: Estimated -2.30

**TRIETHYLENE GLYCOL:**

Bioaccumulation : Species: Sheepshead minnow (*Cyprinodon variegatus*)  
 Bioconcentration factor (BCF): 1,700  
 Exposure time: 28 d  
 Concentration: 7.8 mg/l  
 Method: Flow through

**PENTAETHYLENE GLYCOL:**

Partition coefficient: n-octanol/water : log Pow: -2.3

**DIISOPROPANOLAMINE:**

Partition coefficient: n-octanol/water : log Pow: -0.82

**Mobility in soil**

**Components:**

No data available

**Other adverse effects**

No data available

**Product:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Harmful to aquatic life with long lasting effects.

**Components:**

**SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods**

General advice : Dispose of in accordance with all applicable local, state and

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federal regulations.

The product should not be allowed to enter drains, water courses or the soil.

Do not contaminate ponds, waterways or ditches with chemical or used container.

Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Do not re-use empty containers.

**SECTION 14. TRANSPORT INFORMATION**

**International transport regulations**

**REGULATION**

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.

**MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES**

Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER**

Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO**

Not dangerous goods

**INTERNATIONAL MARITIME DANGEROUS GOODS**

Not dangerous goods

**TRANSPORT CANADA - INLAND WATERWAYS**

Not dangerous goods


**TRANSPORT CANADA - RAIL**

Not dangerous goods

**TRANSPORT CANADA - ROAD**

Not dangerous goods



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**U.S. DOT - INLAND WATERWAYS**

Not dangerous goods

**U.S. DOT - RAIL**

Not dangerous goods

**U.S. DOT - ROAD**

Not dangerous goods

**\*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID**

Marine pollutant		no
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Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

**SECTION 15. REGULATORY INFORMATION**

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

**CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
SODIUM HYDROXIDE	1310-73-2	1000	100010.001

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

**SARA 313 Component(s)**

TRIETHYLENE GLYCOL MONOMETHYL ETHER	112-35-6	30.00 %
TRIETHYLENE GLYCOL MONOBUTYL ETHER	143-22-6	17.99 %
DIETHYLENE GLYCOL MONOMETHYL ETHER	111-77-3	0.99 %

**California Prop 65** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**The components of this product are reported in the following inventories:**

TSCA : On the inventory, or in compliance with the inventory

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- DSL : All components of this product are on the Canadian DSL
- AICS : Not in compliance with the inventory
- ENCS : Not in compliance with the inventory
- KECI : On the inventory, or in compliance with the inventory
- PICCS : On the inventory, or in compliance with the inventory
- IECSC : On the inventory, or in compliance with the inventory

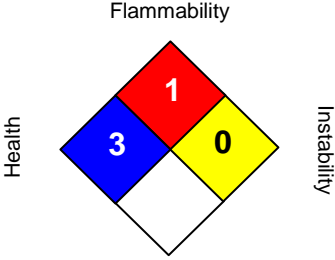
**Inventories**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

**SECTION 16. OTHER INFORMATION**

**Further information**


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<p><b>NFPA:</b></p>  <p>Special hazard.</p>	<p><b>HMIS III:</b></p> <table border="1"> <tr> <td style="background-color: blue; color: white;"><b>HEALTH</b></td> <td style="text-align: center;"><b>3*</b></td> </tr> <tr> <td style="background-color: red; color: white;"><b>FLAMMABILITY</b></td> <td style="text-align: center;"><b>1</b></td> </tr> <tr> <td style="background-color: yellow; color: black;"><b>PHYSICAL HAZARD</b></td> <td style="text-align: center;"><b>0</b></td> </tr> </table> <p>0 = not significant, 1 =Slight, 2 = Moderate, 3 = High 4 = Extreme, * = Chronic</p>	<b>HEALTH</b>	<b>3*</b>	<b>FLAMMABILITY</b>	<b>1</b>	<b>PHYSICAL HAZARD</b>	<b>0</b>
<b>HEALTH</b>	<b>3*</b>						
<b>FLAMMABILITY</b>	<b>1</b>						
<b>PHYSICAL HAZARD</b>	<b>0</b>						

**NFPA Flammable and Combustible Liquids Classification**  
Combustible Liquid Class IIIB

**Full text of H-Statements**

- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H361 Suspected of damaging fertility or the unborn child.

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Sources of key data used to compile the Safety Data Sheet  
Internal data including own and sponsored test reports  
The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.  
Cefic, the European Chemical Industry Council.  
ESIS European Chemical Substances Information System


The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Niteo's Environmental Health and Safety Department (1-844-696-4836).

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :

ACGIH : American Conference of Industrial Hygienists  
BEI : Biological Exposure Index  
CAS : Chemical Abstracts Service (Division of the American Chemical Society).  
CMR : Carcinogenic, Mutagenic or Toxic for Reproduction  
FG : Food grade  
GHS : Globally Harmonized System of Classification and Labeling of Chemicals.  
H-statement : Hazard Statement  
IATA : International Air Transport Association.  
IATA-DGR : Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO : International Civil Aviation Organization  
ICAO-TI (ICAO) : Technical Instructions by the "International Civil Aviation Organization"  
IMDG : International Maritime Code for Dangerous Goods  
ISO : International Organization for Standardization  
logPow : octanol-water partition coefficient  
LCxx : Lethal Concentration, for xx percent of test population  
LDxx : Lethal Dose, for xx percent of test population.  
ICxx : Inhibitory Concentration for xx of a substance  
Ecxx : Effective Concentration of xx  
N.O.S.: Not Otherwise Specified  
OECD : Organization for Economic Co-operation and Development  
OEL : Occupational Exposure Limit  
P-Statement : Precautionary Statement  
PBT : Persistent , Bioaccumulative and Toxic  
PPE : Personal Protective Equipment  
STEL : Short-term exposure limit  
STOT : Specific Target Organ Toxicity  
TLV : Threshold Limit Value  
TWA : Time-weighted average  
vPvB : Very Persistent and Very Bioaccumulative  
WEL : Workplace Exposure Level

CERCLA : Comprehensive Environmental Response, Compensation, and Liability Act  
DOT : Department of Transportation  
FIFRA : Federal Insecticide, Fungicide, and Rodenticide Act  
HMIRC : Hazardous Materials Information Review Commission  
HMIS : Hazardous Materials Identification System  
NFPA : National Fire Protection Association

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NIOSH : National Institute for Occupational Safety and Health  
 OSHA : Occupational Safety and Health Administration  
 PMRA : Health Canada Pest Management Regulatory Agency  
 RTK : Right to Know  
 WHMIS : Workplace Hazardous Materials Information System