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# SAFETY DATA SHEET

411 Maxkool SS®

## Section 1. Identification

**GHS product identifier** : 411 Maxkool SS®

**Other means of identification** : Not available.

**Product type** : Liquid.

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

**Identified uses** : All purpose synthetic metal working fluid.

**Supplier's details** : Schaeffer Mfg. Company  
102 Barton Street  
Saint Louis, Missouri 63104  
Tel: 314-865-4100  
Fax: 314-865-4107  
Toll Free: 1-800-325-9962  
E-Mail: [safety@schaefferoil.com](mailto:safety@schaefferoil.com)  
Web: <http://www.schaefferoil.com>

**Emergency telephone number (with hours of operation)** : +1 314 865-4105 (24-hour response number)

## Section 2. Hazards identification

**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classification of the substance or mixture** : SKIN IRRITATION - Category 2  
EYE IRRITATION - Category 2A  
SKIN SENSITIZATION - Category 1  
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (gastrointestinal tract) - Category 2

### GHS label elements

**Hazard pictograms** :



**Signal word** : Warning

**Hazard statements** : Causes serious eye irritation.  
Causes skin irritation.  
May cause an allergic skin reaction.  
May cause damage to organs through prolonged or repeated exposure. (gastrointestinal tract)

### Precautionary statements

**Prevention** : Wear protective gloves. Wear eye or face protection. Do not breathe vapor. Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

## Section 2. Hazards identification

- Response** : Get medical attention if you feel unwell. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
- Storage** : Not applicable.
- Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.
- Hazards not otherwise classified** : None known.

## Section 3. Composition/information on ingredients

- Substance/mixture** : Mixture
- Other means of identification** : Not available.

### CAS number/other identifiers

- CAS number** : Not applicable.

Ingredient name	%	CAS number
Base Oil(s)(*)	5 - 10	See below.
Tall oil	≥5 - ≤10	8002-26-4
2,2',2''-Nitrilotriethanol	≥3 - ≤5	102-71-6
Alcohols, C10-16, ethoxylated propoxylated	≥3 - ≤5	69227-22-1
2,2'-(cyclohexylimino)bisethanol	≥3 - ≤5	4500-29-2
2-Aminoethanol	≥1 - ≤3	141-43-5
Sulfonic acids, petroleum, sodium salts	≥1 - ≤3	68608-26-4
Boric acid	≥1 - ≤3	10043-35-3
Hexahydro-1,3,5-tris(3-methoxypropyl)-1,3,5-triazine	≥1 - ≤2.5	3960-05-2
Fatty acids, tall-oil, compds. with isopropanolamine	≥1 - ≤3	67701-22-8
Poly(oxy-1,2-ethanediy), α-[(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	≥1 - ≤3	9036-19-5
3-Iodo-2-propynyl butylcarbamate	≤0.3	55406-53-6

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.**

Occupational exposure limits, if available, are listed in Section 8.

Base oil(s) contained in this material may be described by one or more of the following CAS Nos.: 64742-52-5

## Section 4. First aid measures

### Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention following exposure or if feeling unwell. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : Wash with plenty of soap and water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

## Section 4. First aid measures

- Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention following exposure or if feeling unwell. Never give anything by mouth to an unconscious person.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : Causes skin irritation. May cause an allergic skin reaction.
- Ingestion** : No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness
- Ingestion** : No known significant effects or critical hazards.

### Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.

- Specific hazards arising from the chemical** : No specific fire or explosion hazard.

- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides  
sulfur oxides  
metal oxide/oxides

## Section 5. Fire-fighting measures

**Special protective actions for fire-fighters** : No special measures are required.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** : Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. U.S.A. regulations may require reporting spills of this material that could reach any surface waters. Report spills to all applicable Federal, State, Provincial and local authorities and/or the United States National Response Center at (800) 424-8802 as appropriate or required.

### Methods and materials for containment and cleaning up

**Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

### Precautions for safe handling

**Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.

**Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
Base Oil(s)(*)	<p><b>NIOSH REL (United States, 10/2013).</b> TWA: 5 mg/m<sup>3</sup> 10 hours. Form: Mist STEL: 10 mg/m<sup>3</sup> 15 minutes. Form: Mist</p> <p><b>ACGIH TLV (United States).</b> TWA: 5 mg/m<sup>3</sup> Form: Oil mist. STEL: 10 mg/m<sup>3</sup> Form: Oil mist.</p> <p><b>OSHA PEL (United States).</b> TWA: 5 mg/m<sup>3</sup> Form: Oil mist.</p>
Tall oil 2,2',2''-Nitrilotriethanol	<p>None.</p> <p><b>ACGIH TLV (United States, 3/2015).</b> TWA: 5 mg/m<sup>3</sup> 8 hours.</p>
Alcohols, C10-16, ethoxylated propoxylated 2,2'-(cyclohexylimino)bisethanol 2-Aminoethanol	<p>None.</p> <p>None.</p> <p><b>ACGIH TLV (United States, 3/2015).</b> TWA: 3 ppm 8 hours. TWA: 7.5 mg/m<sup>3</sup> 8 hours. STEL: 6 ppm 15 minutes. STEL: 15 mg/m<sup>3</sup> 15 minutes.</p> <p><b>NIOSH REL (United States, 10/2013).</b> TWA: 3 ppm 10 hours. TWA: 8 mg/m<sup>3</sup> 10 hours. STEL: 6 ppm 15 minutes. STEL: 15 mg/m<sup>3</sup> 15 minutes.</p> <p><b>OSHA PEL (United States, 2/2013).</b> TWA: 3 ppm 8 hours. TWA: 6 mg/m<sup>3</sup> 8 hours.</p>
Sulfonic acids, petroleum, sodium salts Boric acid	<p>None.</p> <p><b>ACGIH TLV (United States, 3/2015).</b> TWA: 2 mg/m<sup>3</sup> 8 hours. Form: Inhalable fraction STEL: 6 mg/m<sup>3</sup> 15 minutes. Form: Inhalable fraction</p>
Hexahydro-1,3,5-tris(3-methoxypropyl)-1,3,5-triazine Fatty acids, tall-oil, compds. with isopropanolamine Poly(oxy-1,2-ethanediyl), α-[(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy- 3-Iodo-2-propynyl butylcarbamate	<p>None.</p> <p>None.</p> <p>None.</p> <p>None.</p>

**Appropriate engineering controls** : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

### Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Wear eye protection such as safety glasses, chemical goggles, or face shields if engineering controls or work practices are not adequate to prevent eye contact.

### Skin protection

**Hand protection** : Use nitrile or oil resistant gloves.

**Body protection** : Personal protective clothing such as gloves, aprons, boots and complete facial protection should be selected based on the task being performed and the risks involved. Users should determine acceptable performance characteristics of protective clothing. Consider physical requirements and other substances present when selecting protective clothing.

## Section 8. Exposure controls/personal protection

- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved.
- Respiratory protection** : If a risk assessment indicates that respiratory protection is required, use a properly fitted, air-purifying or supplied air respirator that complies with an approved standard. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

## Section 9. Physical and chemical properties

### Appearance

- Physical state** : Liquid. [Clear.]
- Color** : Blue-Green.
- Odor** : Mild.
- Odor threshold** : Not available.
- pH** : 8.97 [Conc. (% w/w): 1%]
- Melting point** : Not available.
- Boiling point** : Not available.
- Flash point** : Not applicable.
- Evaporation rate** : Not available.
- Flammability (solid, gas)** : Not available.
- Lower and upper explosive (flammable) limits** : Not available.
- Vapor pressure** : Not available.
- Vapor density** : Not available.
- Relative density** : 1.02
- Solubility** : Complete in water.
- Partition coefficient: n-octanol/water** : Not available.
- Auto-ignition temperature** : Not available.
- Decomposition temperature** : Not available.
- Volatility** : 4.5% (w/w)
- Viscosity** : Not available.

## Section 10. Stability and reactivity

- Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- Chemical stability** : Use as directed.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- Conditions to avoid** : No specific data.
- Incompatible materials** : Reactive or incompatible with the following materials: Strong acids, bases and oxidizers..
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Tall oil	LD50 Oral	Rat	66 g/kg	-
2,2',2"-Nitrilotriethanol	LD50 Oral	Rat	7.39 g/kg	-
2,2'-(cyclohexylimino)bisethanol	LD50 Oral	Rat	2600 mg/kg	-
2-Aminoethanol	LD50 Oral	Rat	1720 mg/kg	-
Sulfonic acids, petroleum, sodium salts	LD50 Oral	Rat	>5 g/kg	-
3-Iodo-2-propynyl butylcarbamate	LD50 Oral	Rat	1470 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2,2',2"-Nitrilotriethanol	Eyes - Mild irritant	Rabbit	-	10 mg	-
	Skin - Mild irritant	Human	-	72 hours 15 mg Intermittent	-
2-Aminoethanol	Skin - Mild irritant	Rabbit	-	24 hours 560 mg	-
	Eyes - Severe irritant	Rabbit	-	250 µg	-
	Skin - Moderate irritant	Rabbit	-	505 mg	-
Poly(oxy-1,2-ethanediyl), α-[(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	Eyes - Mild irritant	Rabbit	-	15 mg	-
	Eyes - Severe irritant	Rabbit	-	1 %	-

#### Sensitization

There is no data available.

#### Mutagenicity

There is no data available.

#### Carcinogenicity

##### Classification

Product/ingredient name	OSHA	IARC	NTP	ACGIH	EPA	NIOSH
2,2',2"-Nitrilotriethanol	-	3	-	-	-	-
Boric acid	-	-	-	A4	-	-

#### Reproductive toxicity

There is no data available.

#### Teratogenicity

There is no data available.

#### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
2-Aminoethanol	Category 3	Not applicable.	Respiratory tract irritation
Hexahydro-1,3,5-tris(3-methoxypropyl)-1,3,5-triazine	Category 3	Not applicable.	Respiratory tract irritation

#### Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
2,2'-(cyclohexylimino)bisethanol	Category 2	Oral	gastrointestinal tract
3-Iodo-2-propynyl butylcarbamate	Category 1	Not determined	larynx

#### Aspiration hazard

There is no data available.

**Information on the likely routes of exposure** : Dermal contact. Eye contact. Inhalation. Ingestion.

#### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

**Inhalation** : No known significant effects or critical hazards.

## Section 11. Toxicological information

- Skin contact** : Causes skin irritation. May cause an allergic skin reaction.  
**Ingestion** : No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : Adverse symptoms may include the following:  
 pain or irritation  
 watering  
 redness
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : Adverse symptoms may include the following:  
 irritation  
 redness
- Ingestion** : No known significant effects or critical hazards.

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

- Potential immediate effects** : No known significant effects or critical hazards.
- Potential delayed effects** : No known significant effects or critical hazards.

#### Long term exposure

- Potential immediate effects** : No known significant effects or critical hazards.
- Potential delayed effects** : No known significant effects or critical hazards.

#### Potential chronic health effects

- General** : May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

<b>Route</b>	<b>ATE value</b>
Oral	6955 mg/kg
Dermal	36885.5 mg/kg
Inhalation (vapors)	368.9 mg/L



## Section 12. Ecological information

### Toxicity

Product/ingredient name	Result	Species	Exposure
2,2',2''-Nitrilotriethanol	Acute EC50 609.98 mg/L Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
2-Aminoethanol	Acute LC50 11800000 µg/L Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 16000 µg/L Fresh water	Daphnia - Daphnia magna	21 days
	Acute EC50 8.42 mg/L Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Acute LC50 >100000 µg/L Marine water	Crustaceans - Crangon crangon - Adult	48 hours
Boric acid	Acute LC50 170000 µg/L Fresh water	Fish - Carassius auratus	96 hours
	Acute LC50 133000 µg/L Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 108 mg/L Marine water	Fish - Paralichthys olivaceus	96 hours
	Chronic NOEC 6000 µg/L Fresh water	Daphnia - Daphnia magna	21 days
Poly(oxy-1,2-ethanediy), α-[(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	Chronic NOEC 2100 µg/L Fresh water	Fish - Oncorhynchus mykiss	87 days
	Acute LC50 10800 µg/L Marine water	Crustaceans - Pandalus montagui - Adult	48 hours
	Acute LC50 8600 µg/L Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 7200 µg/L Fresh water	Fish - Oncorhynchus mykiss	96 hours
3-Iodo-2-propynyl butylcarbamate	Acute LC50 500 ppb Fresh water	Crustaceans - Hyalella azteca	48 hours
	Acute LC50 40 ppb Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 67 µg/L Fresh water	Fish - Oncorhynchus mykiss - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Chronic NOEC 8.4 ppb	Fish - Pimephales promelas	35 days

### Persistence and degradability

There is no data available.

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Tall oil	3.2 to 6.8	-	high
2,2',2''-Nitrilotriethanol	-1	<3.9	low
2-Aminoethanol	-1.31	-	low
Boric acid	-1.09	-	low

### Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : There is no data available.

**Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

	DOT Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Additional information	-	-	-

**AERG** : Not applicable.

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

## Section 15. Regulatory information

**U.S. Federal regulations** : **TSCA 4(a) proposed test rules:** Sodium 4(or 5)-methyl-1H-benzotriazolide  
**TSCA 4(a) final test rules:** Acetaldehyde  
**TSCA 8(a) PAIR:** Acetaldehyde; 1,1'-Oxydipropan-2-ol; Poly(oxy-1,2-ethanediyl),  $\alpha$ -[(1,1,3,3-tetramethylbutyl)phenyl]- $\omega$ -hydroxy-  
**TSCA 8(a) CDR Exempt/Partial exemption:** Not determined  
**Commerce control list precursor:** 2,2',2''-Nitrilotriethanol  
**United States inventory (TSCA 8b):** Not determined.  
**Clean Water Act (CWA) 311:** Acetaldehyde; Propylene oxide; Potassium hydroxide

**Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)** : Listed

**Clean Air Act Section 602 Class I Substances** : Not listed

**Clean Air Act Section 602 Class II Substances** : Not listed

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

**DEA List II Chemicals (Essential Chemicals)** : Not listed

## Section 15. Regulatory information

### SARA 302/304

#### Composition/information on ingredients

Name	%	EHS	SARA 302 TPQ		SARA 304 RQ	
			(lbs)	(gallons)	(lbs)	(gallons)
Ethylene oxide	<0.1	Yes.	1000	-	10	-
Propylene oxide	<0.1	Yes.	10000	1444.3	100	14.4

**SARA 304 RQ** : 326797.4 lbs / 148366 kg [38425.6 gal / 145456.9 L]

### SARA 311/312

**Classification** : Immediate (acute) health hazard  
Delayed (chronic) health hazard

#### Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
2,2',2''-Nitrilotriethanol	≥3 - ≤5	No.	No.	No.	Yes.	No.
Alcohols, C10-16, ethoxylated propoxylated	≥3 - ≤5	No.	No.	No.	Yes.	No.
2,2'-(cyclohexylimino)bisethanol	≥3 - ≤5	No.	No.	No.	Yes.	Yes.
2-Aminoethanol	≥1 - ≤3	Yes.	No.	No.	Yes.	No.
Sulfonic acids, petroleum, sodium salts	≥1 - ≤3	No.	No.	No.	Yes.	No.
Boric acid	≥1 - ≤3	No.	No.	No.	No.	Yes.
Hexahydro-1,3,5-tris(3-methoxypropyl)-1,3,5-triazine	≥1 - ≤2.5	No.	No.	No.	Yes.	No.
Fatty acids, tall-oil, compds. with isopropanolamine	≥1 - ≤3	No.	No.	No.	Yes.	No.
Poly(oxy-1,2-ethanediyl), α-[(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-3-iodo-2-propynyl butylcarbamate	≥1 - ≤3	No.	No.	No.	Yes.	No.
	≤0.3	No.	No.	No.	Yes.	Yes.

### SARA 313

There is no data available.

### State regulations

- Massachusetts** : The following components are listed: 2,2',2''-Nitrilotriethanol; 2-Aminoethanol
- New York** : None of the components are listed.
- New Jersey** : The following components are listed: 2,2',2''-Nitrilotriethanol; 2-Aminoethanol; Boric acid
- Pennsylvania** : The following components are listed: Distillates (petroleum), hydrotreated heavy naphthenic; 2,2',2''-Nitrilotriethanol; 2-Aminoethanol

### California Prop. 65

**WARNING:** This product contains less than 0.1% of a chemical known to the State of California to cause cancer.

**WARNING:** This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
2,2'-Iminodiethanol	Yes.	No.	No.	No.
1,4-Dioxane	Yes.	No.	Yes.	No.
Ethylene oxide	Yes.	Yes.	Yes.	Yes.
Propylene oxide	Yes.	No.	No.	No.
Acetaldehyde	Yes.	No.	90 µg/day (inhalation)	No.

## Section 16. Other information

### Hazardous Material Information System (U.S.A.)

**Health :** 1 \* **Flammability :** 0 **Physical hazards :** 0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

### National Fire Protection Association (U.S.A.)

**Health :** 1 **Flammability :** 0 **Instability :** 0

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### Procedure used to derive the classification

Classification	Justification
SKIN IRRITATION - Category 2	Expert judgment
EYE IRRITATION - Category 2A	Expert judgment
SKIN SENSITIZATION - Category 1	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (gastrointestinal tract) - Category 2	Calculation method

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### History

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**Prepared by :** KMK Regulatory Services Inc.

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