


## 1. Product and Company Identification

<b>Product identifier</b>	<b>Ty-Ion B-14A (7519-05)</b>
<b>Other means of identification</b>	Not available
<b>Recommended use</b>	Corrosion inhibitor
<b>Recommended restrictions</b>	None known.
<b>Manufacturer information</b>	Nu-Calgon 2611 Schuetz Road St. Louis, MO 63043 US Phone: 314-469-7000 / 800-554-5499 Emergency Phone: 1-800-424-9300 (CHEMTREC)
<b>Supplier</b>	See above.

## 2. Hazards Identification

<b>Physical hazards</b>	Corrosive to metals	Category 1
<b>Health hazards</b>	Acute toxicity, oral	Category 3
	Skin corrosion/irritation	Category 1
	Serious eye damage/eye irritation	Category 1
	Carcinogenicity	Category 1B
	Reproductive toxicity	Category 2
<b>Environmental hazards</b>	Not classified.	
<b>WHMIS 2015 defined hazards</b>	Not classified	
<b>Label elements</b>		

**Signal word** Danger

**Hazard statement** May be corrosive to metals. Toxic if swallowed. Causes severe skin burns and eye damage. May cause cancer by ingestion. Suspected of damaging fertility or the unborn child.

**Precautionary statement**

**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 and face protection. Keep only in original packaging.  
Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe mist or vapor.

**Response** Absorb spillage to prevent material-damage.  
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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.  
IF exposed or concerned: Get medical attention.

**Storage** Store locked up. Store in a corrosion resistant container with a resistant inner liner.

**Disposal** Dispose of container in accordance with local, regional, national and international regulations.

**WHMIS 2015: Health Hazard(s) not otherwise classified (HHNOC)** None known

**WHMIS 2015: Physical Hazard(s) not otherwise classified (PHNOC)** None known

**Hazard(s) not otherwise classified (HNOC)** None known.

**Supplemental information** None.

### 3. Composition/Information on Ingredients

#### Mixture

Chemical name	Common name and synonyms	CAS number	%
1-Propanol, 2-amino-2-methyl-		124-68-5	1-5*
Diethylaminoethanol		100-37-8	0.1-1*
Sodium carbonate		497-19-8	1-5*
Sodium hydroxide		1310-73-2	3-7*
Sodium metaborate		7775-19-1	1-5*
Sodium nitrite		7632-00-0	10-30*
Sodium tolytriazole		64665-57-2	0.5-1.5*

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### Composition comments

US GHS: The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

\*CANADA GHS: The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. First Aid Measures

<b>Inhalation</b>	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.
<b>Skin contact</b>	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse.
<b>Eye contact</b>	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.
<b>Ingestion</b>	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor.
<b>Most important symptoms/effects, acute and delayed</b>	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically. Symptoms may be delayed.
<b>General information</b>	IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Wear rubber gloves and chemical splash goggles. Keep out of reach of children. Contact with combustible material and heat may cause fire.

### 5. Fire Fighting Measures

<b>Suitable extinguishing media</b>	Flood fire area with water from a distance. Carbon dioxide.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire. DO NOT use dry chemical fire extinguishing agents containing ammonium compounds (such as some A:B:C agents). An explosive compound can be formed.
<b>Specific hazards arising from the chemical</b>	Container may explode in heat of fire. Firefighters should wear a self-contained breathing apparatus.
<b>Special protective equipment and precautions for firefighters</b>	Firefighters should wear full protective clothing including self-contained breathing apparatus.
<b>Fire-fighting equipment/instructions</b>	Move containers from fire area if you can do so without risk.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
<b>Hazardous combustion products</b>	May include and are not limited to: Oxides of carbon. Oxides of nitrogen.

### 6. Accidental Release Measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
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**Methods and materials for containment and cleaning up**

Stop leak if you can do so without risk. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb spillage to prevent material damage. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. 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. For waste disposal, see section 13 of the SDS.

Avoid discharge into drains, water courses or onto the ground. Do not discharge into lakes, streams, ponds or public waters.

Advise authorities if product has penetrated drains, sewers or water pipes.

## 7. Handling and Storage

**Precautions for safe handling**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Do not ingest. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Provide adequate ventilation. Avoid prolonged exposure. Wear appropriate personal protective equipment. Wash thoroughly after handling. Use good industrial hygiene practices in handling this material.

**Conditions for safe storage, including any incompatibilities**

Store locked up. Store in a cool, dry place out of direct sunlight. Store in a corrosion resistant container with a resistant inner liner. Store in a closed container away from incompatible materials. Store away from incompatible materials (see Section 10 of the SDS). Keep out of reach of children. Keep away from heat, open flames or other sources of ignition.

## 8. Exposure Controls/Personal Protection

**Occupational exposure limits****Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)**

Components	Type	Value
Diethylaminoethanol (CAS 100-37-8)	TWA	9.6 mg/m <sup>3</sup>
		2 ppm
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m <sup>3</sup>

**Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)**

Components	Type	Value
Diethylaminoethanol (CAS 100-37-8)	TWA	2 ppm
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m <sup>3</sup>

**Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)**

Components	Type	Value
Diethylaminoethanol (CAS 100-37-8)	TWA	2 ppm
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m <sup>3</sup>

**Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)**

Components	Type	Value	Form
Diethylaminoethanol (CAS 100-37-8)	TWA	2 ppm	
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m <sup>3</sup>	
Sodium metaborate (CAS 7775-19-1)	STEL	6 mg/m <sup>3</sup>	Inhalable fraction.
	TWA	2 mg/m <sup>3</sup>	Inhalable fraction.

**Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)**

Components	Type	Value
Diethylaminoethanol (CAS 100-37-8)	TWA	48 mg/m <sup>3</sup>
		10 ppm

**Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)**

Components	Type	Value
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3

**Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21)**

Components	Type	Value
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

Components	Type	Value
Diethylaminoethanol (CAS 100-37-8)	PEL	50 mg/m3 10 ppm
Sodium hydroxide (CAS 1310-73-2)	PEL	2 mg/m3

**US. ACGIH Threshold Limit Values**

Components	Type	Value
Diethylaminoethanol (CAS 100-37-8)	TWA	2 ppm
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3

**US. NIOSH: Pocket Guide to Chemical Hazards**

Components	Type	Value
Diethylaminoethanol (CAS 100-37-8)	TWA	50 mg/m3 10 ppm
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Exposure guidelines****Canada - Alberta OELs: Skin designation**

Diethylaminoethanol (CAS 100-37-8) Can be absorbed through the skin.

**Canada - British Columbia OELs: Skin designation**

Diethylaminoethanol (CAS 100-37-8) Can be absorbed through the skin.

**Canada - Manitoba OELs: Skin designation**

Diethylaminoethanol (CAS 100-37-8) Can be absorbed through the skin.

**Canada - Ontario OELs: Skin designation**

Diethylaminoethanol (CAS 100-37-8) Can be absorbed through the skin.

**Canada - Quebec OELs: Skin designation**

Diethylaminoethanol (CAS 100-37-8) Can be absorbed through the skin.

**Canada - Saskatchewan OELs: Skin designation**

Diethylaminoethanol (CAS 100-37-8) Can be absorbed through the skin.

**US ACGIH Threshold Limit Values: Skin designation**

Diethylaminoethanol (CAS 100-37-8) Can be absorbed through the skin.

**US. NIOSH: Pocket Guide to Chemical Hazards**

Diethylaminoethanol (CAS 100-37-8) Can be absorbed through the skin.

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

Diethylaminoethanol (CAS 100-37-8) Can be absorbed through the skin.

**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**

Wear safety glasses with side shields (or goggles) and a face shield.

**Skin protection****Hand protection**

Impervious gloves. Confirm with reputable supplier first.

**Other**

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. As required by employer code.

<b>Respiratory protection</b>	Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134), CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2).
<b>Thermal hazards</b>	Not applicable.
<b>General hygiene considerations</b>	Keep away from food and drink. 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. When using do not eat or drink.

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## 9. Physical and Chemical Properties

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<b>Appearance</b>	Clear
<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid
<b>Color</b>	Brown
<b>Odor</b>	Mild amine
<b>Odor threshold</b>	Not available.
<b>pH</b>	12 - 14
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	Not available
<b>Pour point</b>	Not available.
<b>Specific gravity</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Flash point</b>	Not available.
<b>Evaporation rate</b>	Not available
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available
<b>Flammability limit - upper (%)</b>	Not available.
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	Not available
<b>Vapor density</b>	Not available
<b>Relative density</b>	1.235 - 1.315
<b>Solubility(ies)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Other information</b>	
<b>Explosive properties</b>	Not explosive.
<b>Oxidizing properties</b>	Not oxidizing.

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## 10. Stability and Reactivity

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<b>Reactivity</b>	Reacts violently with strong acids. This product may react with oxidizing agents. May be corrosive to metals. This product may react with strong oxidizing agents.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Conditions to avoid</b>	Do not mix with other chemicals. Reacts violently with acids.
<b>Incompatible materials</b>	Strong acids. Strong oxidizing agents. Reducing agents. Cyanides. Metals. Amines. Ammonium salts.
<b>Hazardous decomposition products</b>	May include and are not limited to: Oxides of carbon. Oxides of nitrogen.

## 11. Toxicological Information

**Routes of exposure** Eye, Skin contact, Skin absorption, Inhalation, Ingestion.

**Information on likely routes of exposure**

**Ingestion** Toxic if swallowed. Causes digestive tract burns. May cause stomach distress, nausea or vomiting.

**Inhalation** May cause irritation to the respiratory system. Prolonged inhalation may be harmful.

**Skin contact** Causes severe skin burns.

**Eye contact** Causes serious eye damage.

**Symptoms related to the physical, chemical and toxicological characteristics** Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

**Information on toxicological effects**

**Acute toxicity** Toxic if swallowed.

**Components**

**Species**

**Test Results**

1-Propanol, 2-amino-2-methyl- (CAS 124-68-5)

**Acute**

*Dermal*

LD50 Rabbit > 2000 mg/kg, 24 Hours, ECHA

*Inhalation*

LC50 Not available

*Oral*

LD100 Rat 4000 mg/kg, ECHA

LD50 Rat 2900 mg/kg, ECHA

Diethylaminoethanol (CAS 100-37-8)

**Acute**

*Dermal*

LD50 Guinea pig 1000 mg/kg, HSDB  
885 mg/kg, 4 Days, ECHA  
880 mg/kg, Journal of Industrial Hygiene and Toxicology. Vol. 26,no. 8 (Oct. 1944)  
Rabbit 1100 mg/kg, ECHA

*Inhalation*

LC50 Mouse 5000 mg/m3, CCOHS cheminfo  
Rat 4.6 mg/L, ECHA  
4.5 mg/L, 4 Hours, RTECS

*Oral*

LD50 Rat 1480 mg/kg, ECHA  
1320 mg/kg, ECHA  
1300 mg/kg, ECHA/HSDB

Sodium carbonate (CAS 497-19-8)

**Acute**

*Dermal*

LD50 Rabbit > 2000 mg/kg, ECHA  
Rat > 2000 mg/kg, ECHA

*Inhalation*

LC50 Guinea pig 800 mg/m3, 2 Hours, ECHA  
0.8 mg/L, 2 Hours  
Mouse 1200 mg/m3, 2 Hours, ECHA  
1.2 mg/L, 2 Hours  
Rat 2300 mg/m3, 2 Hours, ECHA  
2.3 mg/L, 2 Hours

Components	Species	Test Results
<i>Oral</i> LD50	Rat	4090 mg/kg, RTECS 2800 mg/kg, ECHA, HSDB
Sodium hydroxide (CAS 1310-73-2)		
<b>Acute</b>		
<i>Dermal</i> LD50	Not available	
<i>Inhalation</i> LC50	Not available	
<i>Oral</i> LD50	Rabbit	325 mg/kg, ECHA
Sodium metaborate (CAS 7775-19-1)		
<b>Acute</b>		
<i>Dermal</i> LD50	Rabbit	> 2000 mg/kg, 24 Hours, ECHA
<i>Inhalation</i> LC50	Rat	> 2.1 mg/L, 4 Hours, ECHA > 2 mg/L, 4 Hours, ECHA > 2 mg/L, 5 Hours, ECHA > 0.2 mg/L, 4 Hours
<i>Oral</i> LD50	Dog	2000 mg/kg, ECHA
	Mouse	3450 mg/kg, ECHA
	Rat	> 2600 mg/kg, ECHA > 2500 mg/kg, ECHA > 2000 mg/kg, ECHA > 250 mg/kg, ECHA 5560 mg/kg, ECHA 3401 mg/kg, ECHA 3305 mg/kg, ECHA 3225 mg/kg, ECHA 2660 mg/kg 2330 mg/kg, HSDB 2.3 g/kg, ECHA
Sodium nitrite (CAS 7632-00-0)		
<b>Acute</b>		
<i>Dermal</i> LD50	Not available	
<i>Inhalation</i> LC50	Rat	5.5 mg/L, 4 Hours, HSDB
<i>Oral</i> LD50	Mouse	175 mg/kg, HSDB
	Rabbit	186 mg/kg, HSDB
	Rat	180 mg/kg, ECHA 85 mg/kg, HSDB
Sodium tolytriazole (CAS 64665-57-2)		
<b>Acute</b>		
<i>Dermal</i> LD50	Rabbit	> 2000 mg/kg, 24 Hours, ECHA
<i>Inhalation</i> LC50	Not available	

Components	Species	Test Results
Oral LD50	Rat	930 mg/kg, ECHA 735 mg/kg, ECHA 1.7 ml/kg, ECHA
<b>Skin corrosion/irritation</b>	Causes severe skin burns and eye damage.	
<b>Exposure minutes</b>	Not available.	
<b>Erythema value</b>	Not available.	
<b>Oedema value</b>	Not available.	
<b>Serious eye damage/eye irritation</b>	Causes serious eye damage.	
<b>Corneal opacity value</b>	Not available.	
<b>Iris lesion value</b>	Not available.	
<b>Conjunctival reddening value</b>	Not available.	
<b>Conjunctival oedema value</b>	Not available.	
<b>Recover days</b>	Not available.	
<b>Respiratory or skin sensitization</b>		
<b>Canada - Alberta OELs: Irritant</b>		
Sodium hydroxide (CAS 1310-73-2)	Irritant	
<b>Respiratory sensitization</b>	Not a respiratory sensitizer.	
<b>Skin sensitization</b>	This product is not expected to cause skin sensitization.	
<b>Mutagenicity</b>	Non-hazardous by WHMIS/OSHA criteria.	
<b>Carcinogenicity</b>	May cause cancer. Nitrate or nitrite (ingested) under conditions that result in endogenous nitrosation, IARC Group 2A, Volume 94, 2010	
<b>US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b>	Not listed.	
<b>Reproductive toxicity</b>	Suspected of damaging fertility or the unborn child. Borates may cause harmful reproductive effects based on animal data.	
<b>Teratogenicity</b>	Non-hazardous by WHMIS/OSHA criteria.	
<b>Specific target organ toxicity - single exposure</b>	Not classified.	
<b>Specific target organ toxicity - repeated exposure</b>	Not classified.	
<b>Aspiration hazard</b>	Not an aspiration hazard.	
<b>Chronic effects</b>	Prolonged inhalation may be harmful. Non-hazardous by WHMIS/OSHA criteria.	

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## 12. Ecological Information

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**Ecotoxicity** Components of this product have been identified as having potential environmental concerns. See below

### Ecotoxicological data

Components	Species	Test Results
1-Propanol, 2-amino-2-methyl- (CAS 124-68-5)		
Algae	IC50	Algae 520 mg/L, 72 Hours
Crustacea	EC50	Daphnia 193 mg/L, 48 Hours
Diethylaminoethanol (CAS 100-37-8)		
Algae	IC50	Algae 30 mg/L, 72 Hours
Crustacea	EC50	Daphnia 83.6 mg/L, 48 Hours
<b>Aquatic</b>		
Fish	LC50	Fathead minnow (Pimephales promelas) 1660 - 1920 mg/L, 96 hours
Sodium carbonate (CAS 497-19-8)		
Crustacea	EC50	Daphnia 265 mg/L, 48 Hours
<b>Aquatic</b>		
Crustacea	EC50	Water flea (Ceriodaphnia dubia) 156.6 - 298.9 mg/L, 48 hours



Components	Species	Test Results	
Fish	LC50	Bluegill ( <i>Lepomis macrochirus</i> )	300 mg/L, 96 hours
Sodium hydroxide (CAS 1310-73-2)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea ( <i>Ceriodaphnia dubia</i> )	34.59 - 47.13 mg/L, 48 hours
Fish	LC50	Western mosquitofish ( <i>Gambusia affinis</i> )	125 mg/L, 96 hours
Sodium nitrite (CAS 7632-00-0)			
<b>Aquatic</b>			
Crustacea	EC50	Greasyback shrimp ( <i>Metapenaeus ensis</i> )	16.14 - 26.61 mg/L, 48 hours
Fish	LC50	Rainbow trout, donaldson trout ( <i>Oncorhynchus mykiss</i> )	0.15 - 0.25 mg/L, 96 hours
<b>Persistence and degradability</b>	No data is available on the degradability of this product.		
<b>Bioaccumulative potential</b>	No data available.		
<b>Mobility in soil</b>	No data available.		
<b>Mobility in general</b>	Not available.		
<b>Other adverse effects</b>	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

<b>Disposal instructions</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Local disposal regulations</b>	Dispose in accordance with all applicable regulations.
<b>Hazardous waste code</b>	D002: Waste Corrosive material [pH <=2 or =>12.5, or corrosive to steel] The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Waste from residues / unused products</b>	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).
<b>Contaminated packaging</b>	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

### 14. Transport Information

<b>Transport of Dangerous Goods (TDG) Proof of Classification</b>	Classification Method: Classified as per Part 2, Sections 2.1 – 2.8 of the Transportation of Dangerous Goods Regulations. If applicable, the technical name and the classification of the product will appear below.
<b>General</b>	IMDG Regulated Marine Pollutant.
<b>U.S. Department of Transportation (DOT)</b>	
<b>Basic shipping requirements:</b>	
UN number	UN1760
Proper shipping name	Corrosive liquids, n.o.s.
Technical name	Sodium hydroxide
Hazard class	8
Packing group	III
Special provisions	IB3, T7, TP1, TP28
Packaging exceptions	<1.3 Gallons - Limited Quantity
Packaging non bulk	203
Packaging bulk	241
<b>Transportation of Dangerous Goods (TDG - Canada)</b>	
<b>Basic shipping requirements:</b>	
UN number	UN1760
Proper shipping name	CORROSIVE LIQUID, N.O.S.
Technical name	SODIUM HYDROXIDE
Hazard class	8
Packing group	III
Special provisions	16
Packaging exceptions	<5L - Limited Quantity

DOT



TDG



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## 15. Regulatory Information

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**Canadian federal regulations** This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

**Export Control List (CEPA 1999, Schedule 3)**

Not listed.

**Greenhouse Gases**

Not listed.

**Precursor Control Regulations**

Not regulated.

**WHMIS 2015 Exemptions**

Not applicable

**US federal regulations**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

All chemicals used are on the TSCA inventory.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Sodium nitrite (CAS 7632-00-0) 1.0 % One-Time Export Notification only.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Sodium hydroxide (CAS 1310-73-2) Listed.

Sodium nitrite (CAS 7632-00-0) 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 - Yes  
Delayed Hazard - Yes  
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)**

Chemical name	CAS number	% by wt.
Sodium nitrite	7632-00-0	10-30*

**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.

US state regulations

See below

**US - California Hazardous Substances (Director's): Listed substance**

Diethylaminoethanol (CAS 100-37-8) Listed.  
Sodium hydroxide (CAS 1310-73-2) Listed.  
Sodium nitrite (CAS 7632-00-0) Listed.

**US - Illinois Chemical Safety Act: Listed substance**

Sodium hydroxide (CAS 1310-73-2)  
Sodium nitrite (CAS 7632-00-0)

**US - Louisiana Spill Reporting: Listed substance**

Sodium hydroxide (CAS 1310-73-2) Listed.  
Sodium nitrite (CAS 7632-00-0) Listed.

**US - Minnesota Haz Subs: Listed substance**

Diethylaminoethanol (CAS 100-37-8) Listed.  
Sodium hydroxide (CAS 1310-73-2) Listed.

**US - New Jersey RTK - Substances: Listed substance**

1-Propanol, 2-amino-2-methyl- (CAS 124-68-5)  
Diethylaminoethanol (CAS 100-37-8)  
Sodium hydroxide (CAS 1310-73-2)  
Sodium metaborate (CAS 7775-19-1)  
Sodium nitrite (CAS 7632-00-0)

**US - Texas Effects Screening Levels: Listed substance**

1-Propanol, 2-amino-2-methyl- (CAS 124-68-5) Listed.  
Diethylaminoethanol (CAS 100-37-8) Listed.  
Sodium carbonate (CAS 497-19-8) Listed.  
Sodium hydroxide (CAS 1310-73-2) Listed.  
Sodium metaborate (CAS 7775-19-1) Listed.  
Sodium nitrite (CAS 7632-00-0) Listed.  
Sodium tolyltriazole (CAS 64665-57-2) Listed.

**US. Massachusetts RTK - Substance List**

1-Propanol, 2-amino-2-methyl- (CAS 124-68-5)  
Diethylaminoethanol (CAS 100-37-8)  
Sodium hydroxide (CAS 1310-73-2)  
Sodium nitrite (CAS 7632-00-0)

**US. New Jersey Worker and Community Right-to-Know Act**

Sodium nitrite (CAS 7632-00-0)

**US. Pennsylvania Worker and Community Right-to-Know Law**

1-Propanol, 2-amino-2-methyl- (CAS 124-68-5)  
Diethylaminoethanol (CAS 100-37-8)  
Sodium hydroxide (CAS 1310-73-2)  
Sodium nitrite (CAS 7632-00-0)

**US. Rhode Island RTK**

Diethylaminoethanol (CAS 100-37-8)  
Sodium hydroxide (CAS 1310-73-2)

**US. California Proposition 65**

Not Listed.

Inventory status

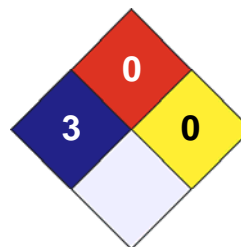
Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

**16. Other Information**

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

HEALTH	* 3
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	X



**Disclaimer**

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document. The information in the sheet was written based on the best knowledge and experience currently available.

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01

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**Prepared by**

Nu-Calgon Technical Service Phone: (314) 469-7000

**Other information**

For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.