

# CYCLONE

## 1. IDENTIFICATION

Product name : **CYCLONE**

Product code : **17-08245** Other means of identification : Not available.

Supplier : Alpine Specialty Chemical Ltd.  
9 City View drive,  
Etobicoke, Ontario  
M9W 5A5

Manufacturer : Alpine Specialty Chemical Ltd.  
9 City View drive,  
Etobicoke, Ontario  
M9W 5A5

Identified uses : Industrial applications: Detergent. Uses advised against : Not available.

Date of issue (YYYY-MM-DD) : 2019-10-08

**In case of emergency : Emergency phone: CANUTEC (613) 996-6666 (Collect calls accepted)**

## 2. HAZARDS IDENTIFICATION

Information in this section only concerns the product as supplied. Contact your account manager to get more information on diluted form hazards identification.

Product Classification : SKIN CORROSION - Category 1A  
SERIOUS EYE DAMAGE - Category 1  
Health Hazards Not Otherwise Classified - Category 1

Signal word : Danger

Hazard pictograms :



Hazard statements : Causes digestive tract burns.  
Causes severe skin burns and eye damage.

### Precautionary statements

General : Corrosive material. Handle with care. Read label before use. Keep out of reach of children.

Prevention : Wash hands thoroughly after handling. Specific protective equipment is suggested for this product. See section 8 for details. Do not breathe dust or mist.

Response : IF INHALED: Move person to fresh air and keep comfortable for breathing. 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. Rinse with water. IF IN EYES: Remove contact lenses, if present and easy to do. Continue rinsing. In any case of exposure, get medical attention if symptoms appear or are severe.

Storage : Store in an appropriate location.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements : No additional information.

Other hazards which do not result in classification : None known.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture : Mixture

<u>Name</u>	<u>CAS number</u>	<u>% (w/w)</u>
potassium hydroxide	1310-58-3	10 - 30
trisodium nitrilotriacetate	5064-31-3	10 - 30

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

### 4. FIRST AID MEASURES

#### Description of required first aid measures

**Eye contact** In case of contact with eyes, flush with fresh water. Check for and remove any contact lenses. Continue rinsing. If irritation persists, get medical attention. Chemical burns must be treated promptly by a physician. Get medical attention if blistering occurs or redness persists.

**Skin contact** Rinse with water. Remove contaminated clothing and wash it before reuse. Chemical burns must be treated promptly by a physician. Get medical attention if blistering occurs or redness persists.

**Ingestion** Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Chemical burns must be treated promptly by a physician. Get medical attention if symptoms occur.

**Inhalation** Move victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Get medical attention if adverse health effects persist or are severe. Maintain an open airway.

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

**Eye contact** Adverse symptoms may include the following:  
pain  
watering  
redness

**Skin contact** Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur

**Ingestion** Adverse symptoms may include the following:  
stomach pains

**Inhalation** Adverse symptoms may include the following:  
respiratory tract irritation  
coughing

**Notes to physician** Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

See toxicological information (Section 11)

### 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** In a fire or if heated, a pressure increase will occur and the container may burst.

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

**Special fire-fighting procedures** Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action should be taken involving any personal risk or without suitable training.

**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.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Initiate spill response procedures if required.
<b>Personal protection</b>	Put on appropriate personal protective equipment (see Section 8).
<b>Cleaning method</b>	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). Use a water rinse for final clean-up.

## 7. HANDLING AND STORAGE

<b>Handling</b>	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. Remove contaminated clothing and protective equipment before entering eating areas. See Section 8 for additional information on hygiene measures.
<b>Storage and Incompatibility</b>	Store in accordance with local regulations. Separate from acids. 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. Keep out of reach of children. Store away from incompatible materials (see Section 10).

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Occupational exposure limits

Ingredient name	Exposure limits
potassium hydroxide	CA Alberta Provincial (Canada, 4/2009). Skin sensitizer. C: 2 mg/m <sup>3</sup> CA British Columbia Provincial (Canada, 6/2017). C: 2 mg/m <sup>3</sup> CA Ontario Provincial (Canada, 7/2015). C: 2 mg/m <sup>3</sup> CA Quebec Provincial (Canada, 1/2014). STEV: 2 mg/m <sup>3</sup> 15 minutes. CA Saskatchewan Provincial (Canada, 7/2013). CEIL: 2 mg/m <sup>3</sup>

**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.

### Individual protection measures

<b>Eye/face protection</b>	Continued or severe exposures might require to wear a face shield or chemical splash goggles. It is minimally suggested to wear safety glasses while using or handling this product.
<b>Hands and Body protection</b>	It is suggested to wear chemical-resistant gloves while using or handling this product. No special protective clothing is required.
<b>Respiratory protection</b>	No specific protective equipment required under normal use conditions.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state</b>	Liquid. [Transparent liquid]	<b>pH</b>	14 [Conc. (% w/w): 1%]	<b>Flash point</b>	[Product does not sustain combustion.]
<b>Color</b>	Red.	<b>Relative density</b>	1.2	<b>Melting point</b>	Not available.
<b>Odor</b>	Not available.	<b>Viscosity</b>	Not available.	<b>Boiling point</b>	Not available.
<b>Odor threshold</b>	Not available.	<b>Vapor pressure</b>	Not available.	<b>Fire point</b>	: Not available.
<b>Solubility in water</b>	: Not available.	<b>Vapor density</b>	: Not available.	<b>Evaporation rate</b>	: Not available.
<b>Decomposition temperature</b>	: Not available.	<b>Auto-ignition temperature</b>	: Not available.		
<b>Partition coefficient: n-octanol/water</b>	: Not available.	<b>Flammability (solid, gas)</b>	: Not available.		
<b>Lower and upper explosive (flammable) limits</b>	: Not available.				

## 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	No specific test data related to reactivity available for this product or its ingredients.
<b>Chemical stability</b>	The product is stable.
<b>Incompatible materials</b>	Reactive or incompatible with acids.
<b>Conditions to avoid</b>	No specific data.
<b>Possibility of hazardous reactions</b>	May cause an exothermic reaction in presence of acids.
<b>Hazardous decomposition products</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11. TOXICOLOGICAL INFORMATION

<b>Route of exposure</b>	Routes of entry anticipated: Oral, Dermal, Inhalation.	
	<u>Potential acute health effects</u>	<u>Symptoms</u>
<b>Eye contact</b>	May cause eye burn	Adverse symptoms may include the following: pain watering redness
<b>Skin contact</b>	May cause skin burns	Adverse symptoms may include the following: pain or irritation redness blistering may occur
<b>Ingestion</b>	Corrosive to the digestive tract. Causes burns. May cause burns to mouth, throat and stomach.	Adverse symptoms may include the following: stomach pains
<b>Inhalation</b>	Inhalation of vapors or mist may cause respiratory tract irritation.	Adverse symptoms may include the following: respiratory tract irritation coughing

### Toxicity data

Product/ingredient name	Result	Species	Dose	Exposure
potassium hydroxide	LD50 Oral	Rat	273 mg/kg	-
trisodium nitrilotriacetate	LD50 Dermal	Rabbit	>10000 mg/kg	-
	LD50 Oral	Rat	1000 mg/kg	-

### Information on toxicological effects

<b>Mutagenicity</b>	No known significant effects or critical hazards.
<b>Teratogenicity</b>	No known significant effects or critical hazards.
<b>Developmental effects</b>	No known significant effects or critical hazards.
<b>Fertility effects</b>	No known significant effects or critical hazards.
<b>Sensitization</b>	Not available.
<b>Carcinogenicity</b>	No known significant effects or critical hazards.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity data


Product/ingredient name	Result	Species	Exposure
potassium hydroxide	Acute LC50 80 ppm Fresh water	Fish - Gambusia affinis - Adult	96 hours
trisodium nitrilotriacetate	Acute EC50 780 mg/l	Daphnia	48 hours
	Acute LC50 185000 µg/l Fresh water	Algae - Navicula seminulum	96 hours
	Acute LC50 98 mg/l	Fish	96 hours
	Chronic NOEC 100000 µg/l Fresh water	Algae - Algae - Exponential growth phase	96 hours
	Chronic NOEC 100000 µg/l Fresh water	Daphnia - Daphnia magna	21 days

**Persistence and degradability** : Unknown **Bioaccumulative potential** : Unknown **Mobility in soil** : Unknown **Other adverse effects** : Unknown

### 13. DISPOSAL CONSIDERATIONS

**Disposal methods**                      Dispose content and container in accordance with local, regional and national regulation in force.

### 14. TRANSPORT INFORMATION

	UN number	UN proper shipping name	Transport hazard class (es)	Packing group	TDG Placard
<b>TDG Classification</b>	UN3266	UN 3266 Corrosive liquid, basic, inorganic, n.o.s (potassium hydroxide)	8	II	

Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.40-2.42 (Class 8).

Additional information                      See shipping documents for specific information on DOT, IMDG or IATA

### 15. REGULATORY INFORMATION

Canadian lists

**Canadian NPRI**                                      The following components are listed: Nitrotriacetic acid (and its salts)

**CEPA Toxic substances**                      None of the components are listed.

**Canada inventory**                              All components are listed or exempted.

International lists

**United States**                      All components are listed or exempted.

### 16. OTHER INFORMATION

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

Health Hazard	0
Fire Hazard	0
Reactivity	0
Personal Protection	

Date of issue/Date of revision (YYYY-MM-DD)                      : 2019-10-08

**Prepared by**                      : Regulatory Affairs Department  
    Alpine Specialty Chemical Ltd.  
    9 City View drive,  
    Etobicoke, Ontario  
    M9W 5A5

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