

# Material Safety Data Sheet

Citrosol

## Section 1. Chemical product and company identification

**Common name** : Citrosol  
**Material uses** : Degreaser heavy duty.  
**Supplier/Manufacturer** : V-TO Inc. 2975, Nelson, Saint-Hyacinthe, QC J2S 1Y5  
Tél: (450) 774-6849 Fax:(450) 774-4334  
**In case of emergency** : 9 1 1 or Canutec (6 1 3) 996-6666

## Section 2. Hazards identification

**Physical state** : Liquid.  
**Emergency overview** : DANGER!  
CAUSES RESPIRATORY TRACT, EYE AND SKIN BURNS.  
MAY CAUSE ALLERGIC SKIN REACTION.  
MAY BE HARMFUL IF SWALLOWED.  
Do not ingest. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist.  
Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

**Routes of entry** : Dermal contact. Eye contact. Inhalation. Ingestion.

**Potential acute health effects**

**Eyes** : Corrosive to eyes.

**Skin** : Corrosive to the skin. May cause sensitization by skin contact.

**Inhalation** : Corrosive to the respiratory system.

**Ingestion** : Harmful if swallowed. May cause burns to mouth, throat and stomach.

**Potential chronic health effects** : Carcinogenic effects: Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.  
Mutagenic effects: Not available.  
Teratogenic Effects: Not available.

**Medical conditions aggravated by over-exposure** : Repeated skin exposure can produce local skin destruction or dermatitis. Repeated or prolonged exposure to the substance can produce lung damage. Repeated or prolonged contact with spray or mist may produce chronic eye irritation and severe skin irritation.

See toxicological information (section 11)

## Section 3. Composition, Information on Ingredients

	CAS number	% by weight
<b>Canada</b>		
Disodium metasilicate	6834-92-0	7 - 10
Sodium carbonate	497-19-8	1 - 3
(R)-p-Mentha-1,8-diene	5989-27-5	1 - 3

This material is classified hazardous under the WHMIS Controlled Product Regulation in Canada.

See Chapters 8, 11 and 14 for details.

## Section 4. First aid measures

**Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

**Skin contact** : In case of contact, immediately flush skin with plenty of water for at least 20 minutes while removing contaminated clothing and shoes. Get medical attention if symptoms appear.

**Inhalation** : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

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- Ingestion** : Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.
- Notes to physician** : No specific antidote. Medical staff must contact Poison Control Center.

## Section 5. Fire fighting measures

- Flammability of the product** : Non-flammable.
- Explosion hazards in the presence of various substances** : Not considered to be a product presenting a risk of explosion.
- Fire-fighting media and instructions** : Use an extinguishing agent suitable for the surrounding fire.
- 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** : Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment.
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
- Methods for cleaning up** : If emergency personnel are unavailable, contain spilled material. For small spills, add absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealable, liquid-proof container for disposal. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

## Section 7. Handling and storage

- Handling** : Do not ingest. Do not get in eyes or on skin or clothing. Keep container closed. Use only with adequate ventilation. Do not breathe vapor or mist. Wash thoroughly after handling.
- Storage** : Keep container tightly closed. Keep container in a cool, well-ventilated area.

## Section 8. Exposure controls, personal protection

- Engineering controls** : Good general ventilation should be sufficient to control airborne levels.
- Personal protection**
- Eyes** : Splash goggles.



- Respiratory** : Not required if handled in a ventilated enclosure.
- Hands** : Nitrile gloves.



- Skin/Body** : No special protective clothing is required.

- Personal protection in case of a large spill** : Wear appropriate personal protective equipment.

Consult local authorities for acceptable exposure limits.

## Section 9. Physical and chemical properties

<b>Physical state</b>	: Liquid.
<b>Color</b>	: Yellow.
<b>pH</b>	: 12.75 to 13.2 [Basic.]
<b>Boiling/condensation point</b>	: Weighted average: 102.71°C (216.9°F)
<b>Melting/freezing point</b>	: May start to solidify at 0°C (32°F) based on data for: Water.
<b>Specific gravity</b>	: 1.04 (Water = 1)
<b>Vapor pressure</b>	: The highest known value is 2.3 kPa (17.5 mm Hg) (at 20°C) (Water).
<b>Vapor density</b>	: The highest known value is 0.62 (Air = 1) (Water).
<b>Viscosity</b>	: Dynamic: 120 cP.
<b>Ionicity (in water)</b>	: Amphoteric. (Water).
<b>Dispersibility properties</b>	: See solubility in water, methanol, acetone.
<b>Solubility</b>	: Easily soluble in methanol, acetone. Partially soluble in cold water, hot water.

## Section 10. Stability and reactivity

<b>Stability and reactivity</b>	: The product is stable.
<b>Incompatibility with various substances</b>	: Reactive with acids and oxidizing materials.
<b>Hazardous polymerization</b>	: Will not occur.

## Section 11. Toxicological information

### Toxicity data

Ingredient name	Test	Result	Route	Species
Disodium metasilicate	LD50	1153 mg/kg	Oral	Rat
	LD50	770 mg/kg	Oral	Mouse
Sodium carbonate	LD50	4090 mg/kg	Oral	Rat
	LD50	6600 mg/kg	Oral	Mouse
(R)-p-Mentha-1,8-diene	LD50	4400 mg/kg	Oral	Rat
	LD50	5600 mg/kg	Oral	Mouse
	LD50	>5000 mg/kg	Dermal	Rabbit
<b>Eyes</b>	: Corrosive to eyes.			
<b>Skin</b>	: Corrosive to the skin. May cause sensitization by skin contact.			
<b>Inhalation</b>	: Corrosive to the respiratory system.			
<b>Ingestion</b>	: Harmful if swallowed. May cause burns to mouth, throat and stomach.			
<b>Potential chronic health effects</b>	: Carcinogenic effects: Not classified or listed by IARC, NTP, OSHA, EU and ACGIH. Mutagenic effects: Not available. Teratogenic Effects: Not available.			

## Section 12. Ecological information

### Ecotoxicity data

Ingredient name	Species	Period	Result
Sodium carbonate	Lepomis macrochirus (LC50)	96 hour/hours	300 mg/l
	Lepomis macrochirus (LC50)	96 hour/hours	320 mg/l
	Pimephales promelas (LC50)	96 hour/hours	<850 mg/l
(R)-p-Mentha-1,8-diene	Daphnia pulex (EC50)	48 hour/hours	69.6 mg/l
	Pimephales promelas (LC50)	96 hour/hours	0.702 mg/l
<b>Products of degradation</b>	: These products are carbon oxides and water. Some metallic oxides.		

## Section 13. Disposal considerations

**Waste disposal** : The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Consult your local or regional authorities.

## Section 14. Transport information

### Classification

TDG/ IMDG/ IATA : UN number	Proper shipping name	Class	Packing group
UN3266	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Disodium metasilicate)	8	III

### Label

TDG



### Additional information

## Section 15. Regulatory information

### Canada

**WHMIS (Canada)** : Class E: Corrosive material



DSL : All components listed.

### International regulations

#### International lists

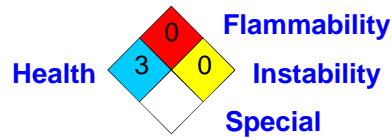
: All components listed are listed on major international inventories or exempted from being listed in Australia (AICS), Europe (EINECS/ELINCS), Korea (TCCL), Japan (METI/MOL), Philippines (RA6969).

## Section 16. Other information

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

Health	3
Fire hazard	0
Reactivity	0
Personal protection	C

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



- References** : ANSI Z400.1, MSDS Standard, 2004. - Manufacturer's Material Safety Data Sheet. - Canada Gazette Part II, Vol. 122, No. 2. Registration SOR/88-64, 31 December 1987. Hazardous Products Act "Ingredient Disclosure List" - Canadian Transport of Dangerous Goods, Regulations and Schedules, Clear Language version 2002.
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**Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.