

**CRAVEN**

Version 1.0      Revision Date: 01/23/2020      SDS Number: S00035700886      This version replaces all previous versions.

---

**SECTION 1. IDENTIFICATION**

Product name : CRAVEN  
Design code : A12872A  
Product Registration number : 32231  
Other means of identification : No data available

**Manufacturer or supplier's details**

Company name of supplier : Syngenta Canada Inc.  
Address : 140 Research Lane, Research Park  
Guelph ON N1G 4Z3  
Canada  
Telephone : 1-87-SYNGENTA (1-877-964-3682)  
Telefax : 1-519-823-0504  
Emergency telephone number : 1-800-327-8633 (FAST MED)

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

Recommended use : Herbicide

---

**SECTION 2. HAZARDS IDENTIFICATION****GHS classification in accordance with the Hazardous Products Regulations**

Corrosive to metals : Category 1  
Acute toxicity (Oral) : Category 4  
Acute toxicity (Inhalation) : Category 3  
Eye irritation : Category 2B  
Specific target organ toxicity - single exposure : Category 3 (Respiratory system)  
Specific target organ toxicity - repeated exposure : Category 1 (Eyes)

**GHS label elements**

Hazard pictograms : 

Signal word : Danger

---

**CRAVEN**

Version 1.0      Revision Date: 01/23/2020      SDS Number: S00035700886      This version replaces all previous versions.

**Hazard statements** : H290 May be corrosive to metals.  
 H302 Harmful if swallowed.  
 H320 Causes eye irritation.  
 H331 Toxic if inhaled.  
 H335 May cause respiratory irritation.  
 H372 Causes damage to organs (Eyes) through prolonged or repeated exposure.

**Precautionary statements** : **Prevention:**  
 P234 Keep only in original packaging.  
 P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
 P264 Wash skin thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P271 Use only outdoors or in a well-ventilated area.

**Response:**  
 P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.  
 P304 + P340 + P311 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P314 Get medical advice/ attention if you feel unwell.  
 P337 + P313 If eye irritation persists: Get medical advice/ attention.  
 P390 Absorb spillage to prevent material damage.

**Storage:**  
 P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
 P405 Store locked up.

**Disposal:**  
 P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**  
 None known.

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

Chemical name	CAS-No.	Concentration (% w/w)
diquat dibromide	85-00-7	37.3
diquat dibromide	85-00-7	>= 30 - < 60

Actual concentration or concentration range is withheld as a trade secret

**CRAVEN**

Version 1.0      Revision Date: 01/23/2020      SDS Number: S00035700886      This version replaces all previous versions.

---

**SECTION 4. FIRST AID MEASURES**

- General advice : Have the product container, label or Safety Data Sheet with you when calling the emergency number, a poison control center or physician, or going for treatment.
- If inhaled : Move the victim to fresh air.  
If breathing is irregular or stopped, administer artificial respiration.  
Keep patient warm and at rest.  
Call a physician or poison control centre immediately.
- In case of skin contact : Take off all contaminated clothing immediately.  
Wash off immediately with plenty of water.  
If skin irritation persists, call a physician.  
Wash contaminated clothing before re-use.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Remove contact lenses.  
Immediate medical attention is required.
- If swallowed : If swallowed, seek medical advice immediately and show this container or label.  
Do NOT induce vomiting.
- Most important symptoms and effects, both acute and delayed : inflammation of the mouth, throat and oesophagus  
Gastrointestinal discomfort  
Diarrhoea
- Notes to physician : Administer either activated charcoal (100g for adults or 2g/kg body weight in children) or Fuller's Earth (15% solution; 1 litre for adults or 15ml/kg body weight in children).  
NOTE: The use of gastric lavage without administration of an adsorbent has not shown any clinical benefit.  
Eye contact:- Severe damage may be caused by apparently trivial contact and healing may be delayed. Medical supervision should continue until complete healing has occurred.
- 

**SECTION 5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Extinguishing media - small fires  
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.  
Extinguishing media - large fires  
Alcohol-resistant foam  
or  
Water spray
- Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

**CRAVEN**

Version 1.0      Revision Date: 01/23/2020      SDS Number: S00035700886      This version replaces all previous versions.

- Specific hazards during firefighting : As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10). Exposure to decomposition products may be a hazard to health.
- Further information : Do not allow run-off from fire fighting to enter drains or water courses.  
Cool closed containers exposed to fire with water spray.
- Special protective equipment for firefighters : Wear full protective clothing and self-contained breathing apparatus.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency procedures : Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : Prevent further leakage or spillage if safe to do so.  
Do not flush into surface water or sanitary sewer system.  
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).  
Clean contaminated surface thoroughly.  
Clean with detergents. Avoid solvents.  
Retain and dispose of contaminated wash water.

**SECTION 7. HANDLING AND STORAGE**

- Advice on safe handling : Avoid contact with skin and eyes.  
When using do not eat, drink or smoke.  
For personal protection see section 8.  
Spray solutions should not be mixed, stored or applied in containers other than plastic, plastic-lined steel, stainless steel or fiberglass.
- Conditions for safe storage : No special storage conditions required.  
Keep containers tightly closed in a dry, cool and well-ventilated place.  
Keep out of the reach of children.  
Keep away from food, drink and animal feedingstuffs.

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

Components	CAS-No.	Value type	Control	Basis
------------	---------	------------	---------	-------

**CRAVEN**Version  
1.0Revision Date:  
01/23/2020SDS Number:  
S00035700886

This version replaces all previous versions.

		(Form of exposure)	parameters / Permissible concentration	
diquat dibromide	85-00-7	TWA (Total)	0.5 mg/m <sup>3</sup>	CA AB OEL
		TWA (Respirable)	0.1 mg/m <sup>3</sup>	CA AB OEL
		TWA	0.5 mg/m <sup>3</sup>	CA ON OEL
		TWA (Respirable fraction)	0.1 mg/m <sup>3</sup>	CA ON OEL
		TWA (Inhalable fraction)	0.5 mg/m <sup>3</sup> (the cation)	ACGIH
		TWA (Respirable fraction)	0.1 mg/m <sup>3</sup> (the cation)	ACGIH

**Engineering measures** : THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THE PRODUCT. FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated.

The extent of these protection measures depends on the actual risks in use.

Maintain air concentrations below occupational exposure standards.

Where necessary, seek additional occupational hygiene advice.

**Personal protective equipment**

**Respiratory protection** : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.  
Suitable respiratory equipment:  
Respirator with a half face mask  
The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

Hand protection

**Remarks** : Wear protective gloves. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other.

**CRAVEN**

Version 1.0      Revision Date: 01/23/2020      SDS Number: S00035700886      This version replaces all previous versions.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The breakthrough time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

- Eye protection : Tightly fitting safety goggles  
Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded.
- Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.  
Remove and wash contaminated clothing before re-use.  
Wear as appropriate:  
Impervious clothing
- Protective measures : The use of technical measures should always have priority over the use of personal protective equipment.  
When selecting personal protective equipment, seek appropriate professional advice.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance : liquid
- Odour Threshold : No data available
- pH : 4 - 6
- Melting point/range : No data available
- Boiling point/boiling range : No data available
- Flash point : Method: Pensky-Martens closed cup  
does not flash
- Evaporation rate : No data available
- Upper explosion limit / Upper flammability limit : No data available
- Lower explosion limit / Lower flammability limit : No data available
- Vapour pressure : No data available
- : No data available

**CRAVEN**

Version 1.0      Revision Date: 01/23/2020      SDS Number: S00035700886      This version replaces all previous versions.

---

Relative vapour density : No data available

Density : 1.202 g/cm<sup>3</sup> (25 °C)

Solubility(ies)  
Solubility in other solvents : soluble

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

Auto-ignition temperature : > 650 °C

Decomposition temperature : No data available

Viscosity  
Viscosity, dynamic : No data available  
No data available

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

---

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity : See section "Possibility of hazardous reactions".

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : Corrosive in contact with metals

Conditions to avoid : No decomposition if used as directed.

Incompatible materials : Aluminium  
Mild steel  
Iron

Hazardous decomposition products : No hazardous decomposition products are known.

---

**SECTION 11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure**

Ingestion  
Inhalation  
Skin contact  
Eye contact

**Acute toxicity****Product:**

Acute oral toxicity : LD50 (Rat, female): 886 mg/kg

---

**CRAVEN**

Version 1.0      Revision Date: 01/23/2020      SDS Number: S00035700886      This version replaces all previous versions.

---

Acute inhalation toxicity : Assessment: The substance/mixture is not toxic on inhalation as defined by dangerous goods regulations.

Acute toxicity estimate: 0.6059 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: Calculation method

Acute dermal toxicity : LD50 (Rat, male and female): > 5,050 mg/kg

**Components:****diquat dibromide:**

Acute oral toxicity : LD50 (Rat, female): 399.75 mg/kg

LD50 (Rat, male): 414.69 mg/kg  
Remarks: Lethal dose for man is approximately 4-6g of diquat (equivalent to approximately 60mg/kg). May cause nausea, vomiting, abdominal pain and diarrhoea within a few hours of swallowing. Ulceration of lips, mouth, throat and intestine may follow within 24-48 hours. Kidney failure and liver damage may occur; in severe cases circulatory collapse; coma or death/cardiac arrest.

Acute inhalation toxicity : LC50 (Rat, male): 0.226 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rat, male and female): > 792 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

**diquat dibromide:**

Acute oral toxicity : LD50 (Rat, female): 399.75 mg/kg

LD50 (Rat, male): 414.69 mg/kg  
Remarks: Lethal dose for man is approximately 4-6g of diquat (equivalent to approximately 60mg/kg). May cause nausea, vomiting, abdominal pain and diarrhoea within a few hours of swallowing. Ulceration of lips, mouth, throat and intestine may follow within 24-48 hours. Kidney failure and liver damage may occur; in severe cases circulatory collapse; coma or death/cardiac arrest.

Acute inhalation toxicity : LC50 (Rat, male): 0.226 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rat, male and female): > 792 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity



**CRAVEN**

Version 1.0      Revision Date: 01/23/2020      SDS Number: S00035700886      This version replaces all previous versions.

---

**Skin corrosion/irritation****Product:**

Species : Rabbit  
Result : No skin irritation

**Components:****diquat dibromide:**

Species : Rabbit  
Result : Irritating to skin.  
Remarks : Expert judgement  
May also cause discoloration, cracking and loss of nails.  
Normal growth follows without delay.

**diquat dibromide:**

Species : Rabbit  
Result : Irritating to skin.  
Remarks : Expert judgement  
May also cause discoloration, cracking and loss of nails.  
Normal growth follows without delay.

**Serious eye damage/eye irritation****Product:**

Species : Rabbit  
Result : Mild eye irritation

**Components:****diquat dibromide:**

Species : Rabbit  
Result : Eye irritation  
Remarks : Expert judgement  
This material has a delayed eye irritation effect. May lead to ulceration of cornea and conjunctival epithelium giving rise to secondary infection. Although healing may be slow, the injury is superficial and with proper medical care recovery will be complete, even in severe cases.

**diquat dibromide:**

Species : Rabbit  
Result : Eye irritation  
Remarks : Expert judgement  
This material has a delayed eye irritation effect. May lead to ulceration of cornea and conjunctival epithelium giving rise to secondary infection. Although healing may be slow, the injury is superficial and with proper medical care recovery will be complete, even in severe cases.

**CRAVEN**Version  
1.0Revision Date:  
01/23/2020SDS Number:  
S00035700886

This version replaces all previous versions.

**Respiratory or skin sensitisation****Product:**

Species : Guinea pig  
Result : Did not cause sensitisation on laboratory animals.

**Components:****diquat dibromide:**

Species : Guinea pig  
Result : May cause sensitisation by skin contact.

**diquat dibromide:**

Species : Guinea pig  
Result : May cause sensitisation by skin contact.

**Germ cell mutagenicity****Product:**

Germ cell mutagenicity - Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

**Components:****diquat dibromide:**

Germ cell mutagenicity - Assessment : Animal testing did not show any mutagenic effects.

**diquat dibromide:**

Germ cell mutagenicity - Assessment : Animal testing did not show any mutagenic effects.

**Carcinogenicity****Components:****diquat dibromide:**

Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies.

**diquat dibromide:**

Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies.

**Reproductive toxicity****Components:****diquat dibromide:**

Reproductive toxicity - Assessment : No toxicity to reproduction

**CRAVEN**Version  
1.0Revision Date:  
01/23/2020SDS Number:  
S00035700886

This version replaces all previous versions.

**diquat dibromide:**Reproductive toxicity -  
Assessment : No toxicity to reproduction**STOT - single exposure****Product:**

Assessment : May cause respiratory irritation.

**Components:****diquat dibromide:**

Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

**diquat dibromide:**

Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

**STOT - repeated exposure****Components:****diquat dibromide:**Target Organs : Eyes  
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 1.  
Remarks : Ocular effects (cataracts) have been reported following long term oral exposure of laboratory animals.**diquat dibromide:**Target Organs : Eyes  
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 1.  
Remarks : Ocular effects (cataracts) have been reported following long term oral exposure of laboratory animals.

---

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Product:**Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 65.43 mg/l  
Exposure time: 96 h

## CRAVEN

Version 1.0      Revision Date: 01/23/2020      SDS Number: S00035700886      This version replaces all previous versions.

- Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia similis* (water flea)): 0.59 mg/l  
Exposure time: 48 h
- Toxicity to algae/aquatic plants : EC50 (*Pseudokirchneriella subcapitata* (green algae)): 0.13 mg/l  
Exposure time: 72 h
- NOEC (*Pseudokirchneriella subcapitata* (green algae)): 0.025 mg/l  
Exposure time: 72 h

### Components:

#### **diquat dibromide:**

- Toxicity to fish : LC50 (*Oncorhynchus mykiss* (rainbow trout)): Calculated 10.46 mg/l  
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): Calculated 2.49 mg/l  
Exposure time: 48 h
- Toxicity to algae/aquatic plants : ErC50 (*Navicula pelliculosa* (Freshwater diatom)): Calculated 0.001148 mg/l  
Exposure time: 96 h
- NOEC (*Navicula pelliculosa* (Freshwater diatom)): Calculated 0.0005945 mg/l  
Exposure time: 96 h
- Toxicity to fish (Chronic toxicity) : NOEC (*Pimephales promelas* (fathead minnow)): Calculated 0.04726 mg/l  
Exposure time: 34 d
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (*Daphnia magna* (Water flea)): Calculated 0.0504 mg/l  
Exposure time: 21 d

#### **diquat dibromide:**

- Toxicity to fish : LC50 (*Oncorhynchus mykiss* (rainbow trout)): Calculated 10.46 mg/l  
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): Calculated 2.49 mg/l  
Exposure time: 48 h
- Toxicity to algae/aquatic plants : ErC50 (*Navicula pelliculosa* (Freshwater diatom)): Calculated 0.001148 mg/l  
Exposure time: 96 h
- NOEC (*Navicula pelliculosa* (Freshwater diatom)): Calculated 0.0005945 mg/l  
Exposure time: 96 h
- Toxicity to fish (Chronic toxicity) : NOEC (*Pimephales promelas* (fathead minnow)): Calculated

**CRAVEN**

Version 1.0      Revision Date: 01/23/2020      SDS Number: S00035700886      This version replaces all previous versions.

---

toxicity)      0.04726 mg/l  
Exposure time: 34 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): Calculated 0.0504 mg/l  
Exposure time: 21 d

**Persistence and degradability****Components:****diquat dibromide:**

Stability in water : Degradation half life: > 30 d  
Remarks: Persistent in water.

**diquat dibromide:**

Stability in water : Degradation half life: > 30 d  
Remarks: Persistent in water.

**Bioaccumulative potential****Components:****diquat dibromide:**

Bioaccumulation : Remarks: Low bioaccumulation potential.

**diquat dibromide:**

Bioaccumulation : Remarks: Low bioaccumulation potential.

**Mobility in soil****Components:****diquat dibromide:**

Distribution among environmental compartments : Remarks: immobile

Stability in soil : Dissipation time: 11 - 41 y  
Percentage dissipation: 50 % (DT50)  
Remarks: Persistent in soil.

**diquat dibromide:**

Distribution among environmental compartments : Remarks: immobile

Stability in soil : Dissipation time: 11 - 41 y  
Percentage dissipation: 50 % (DT50)  
Remarks: Persistent in soil.

## CRAVEN

Version 1.0      Revision Date: 01/23/2020      SDS Number: S00035700886      This version replaces all previous versions.

### Other adverse effects

#### Components:

##### **diquat dibromide:**

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

##### **diquat dibromide:**

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

- Waste from residues : Refer to the product label for specific disposal/recycling information
- Do not contaminate ponds, waterways or ditches with chemical or used container.  
Do not dispose of waste into sewer.  
Where possible recycling is preferred to disposal or incineration.  
If recycling is not practicable, dispose of in compliance with local regulations.
- Contaminated packaging : Refer to the product label for specific disposal/recycling information
- Empty remaining contents.  
Triple rinse containers.  
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 Regulations

#### **UNRTDG**

UN number : UN 1760  
Proper shipping name : CORROSIVE LIQUID, N.O.S. (DIQUAT DIBROMIDE)  
Class : 8  
Packing group : III  
Labels : 8

#### **IATA-DGR**

UN/ID No. : UN 1760

**CRAVEN**

Version 1.0      Revision Date: 01/23/2020      SDS Number: S00035700886      This version replaces all previous versions.

Proper shipping name : Corrosive liquid, n.o.s.  
(DIQUAT DIBROMIDE)  
Class : 8  
Packing group : III  
Labels : Class 8 - Corrosive substances  
Packing instruction (cargo aircraft) : 856  
Packing instruction (passenger aircraft) : 852

**IMDG-Code**

UN number : UN 1760  
Proper shipping name : CORROSIVE LIQUID, N.O.S.  
(DIQUAT DIBROMIDE)  
Class : 8  
Packing group : III  
Labels : 8  
EmS Code : F-A, S-B  
Marine pollutant : yes

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**National Regulations****TDG**

UN number : UN 1760  
Proper shipping name : CORROSIVE LIQUID, N.O.S.  
(DIQUAT DIBROMIDE)  
Class : 8  
Packing group : III  
Labels : 8  
ERG Code : 154  
Marine pollutant : yes(DIQUAT DIBROMIDE)

**Special precautions for user**

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

**SECTION 15. REGULATORY INFORMATION**

This chemical is a pest control product registered by Health Canada Pest Management Regulatory Agency and is subject to certain labelling requirements under the Pest Control Products Act. These requirements differ from the classification criteria and hazard information required for GHS-consistent safety data sheets. The following is the hazard information required on the pest control product label: Read the label, authorised under the Pest Control Products Act, prior to using or handling the pest control product

There are Canada-specific environmental requirements for handling, use, and disposal of this pest control product that are indicated on the label.

Warning

poison

Eye irritant

Skin irritant

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

DSL : All components of this product are on the Canadian DSL

**CRAVEN**

Version 1.0      Revision Date: 01/23/2020      SDS Number: S00035700886      This version replaces all previous versions.

---

**Canadian lists**

No substances are subject to a Significant New Activity Notification.

---

**SECTION 16. OTHER INFORMATION****Full text of other abbreviations**

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
CA AB OEL	:	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
CA ON OEL	:	Ontario Table of Occupational Exposure Limits made under the Occupational Health and Safety Act.
ACGIH / TWA	:	8-hour, time-weighted average
CA AB OEL / TWA	:	8-hour Occupational exposure limit
CA ON OEL / TWA	:	Time-Weighted Average Limit (TWA)

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

Revision Date : 01/23/2020



**CRAVEN**

Version	Revision Date:	SDS Number:	This version replaces all previous versions.
1.0	01/23/2020	S00035700886	

---

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

CA / EN