

1. Identification

Product identifier	K-CURE® 129B
Other means of identification	
Product code	404500
Product Use	Strong Acid Catalyst
Recommended restrictions	None known.
Manufacturer	
Company name	King Industries, Inc.
Address	Science Road P.O. Box 588 Norwalk, CT 06852 United States
Telephone	+1-203-866-5551
Fax	+1-203-866-1268
E-mail	msds@kingindustries.com
Emergency phone number	For Chemical Emergency ONLY (spill, leak, fire, exposure or accident), 24 hour emergency telephone, call CHEMTREC at 1-800-424-9300 (US, Canada, Puerto Rico); 1-703-527-3887 (elsewhere).
Importer / Supplier	
Supplier	Univar Solutions Canada Ltd. 9800 Van Horne Way Richmond, BC V6X 1W5 Canada Telephone: 1-866-686-4827

2. Hazard identification

Physical hazards	Flammable liquids	Category 2
Health hazards	Acute toxicity, oral	Category 4
	Acute toxicity, dermal	Category 4
	Acute toxicity, inhalation	Category 3
	Skin Corrosion	Category 1B
	Serious Eye Damage	Category 1
	Specific target organ toxicity, single exposure	Category 1
	Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation
	Specific target organ toxicity, single exposure	Category 3 narcotic effects
Environmental hazards	Not classified.	

Label elements



Signal word

Danger

Hazard statement

Highly flammable liquid and vapor. Harmful if swallowed. Harmful in contact with skin. Causes severe skin burns and eye damage. Causes serious eye damage. Toxic if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. Causes damage to organs.

Precautionary statement

Prevention

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Do not breathe mist/vapors. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

Response

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. 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/doctor. Take off contaminated clothing and wash it before reuse. In case of fire: Use appropriate media to extinguish.

Storage

Keep cool. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Store away from incompatible materials.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards

None known.

Supplemental information

None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
1-BUTANOL		71-36-3	30 - < 40
BENZENESULFONIC ACID, 4-METHYL-		104-15-4	30 - < 40
METHANESULPHONIC ACID		75-75-2	10 - < 20
METHANOL		67-56-1	10 - < 20

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

4. First-aid measures

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a poison center or doctor/physician.

Skin contact

Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

Ingestion

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Most important symptoms/effects, acute and delayed

May cause drowsiness and dizziness. Headache. Nausea, vomiting. 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. May cause respiratory irritation.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

General information

Take off all contaminated clothing immediately. 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. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media

Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO₂).

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical	Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	Highly flammable liquid and vapor.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Use water spray to reduce vapors or divert vapor cloud drift. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. This product is miscible in water. Should not be released into the environment. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. 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: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling	Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist/vapors. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Avoid prolonged exposure. When using, do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Type	Value
1-BUTANOL (CAS 71-36-3)	TWA	20 ppm
METHANOL (CAS 67-56-1)	STEL	250 ppm
	TWA	200 ppm

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

Components	Type	Value
1-BUTANOL (CAS 71-36-3)	TWA	60 mg/m3 20 ppm
METHANOL (CAS 67-56-1)	STEL	328 mg/m3 250 ppm

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

Components	Type	Value
	TWA	262 mg/m3
		200 ppm

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

Components	Type	Value
1-BUTANOL (CAS 71-36-3)	Ceiling	30 ppm
	TWA	15 ppm
METHANOL (CAS 67-56-1)	STEL	250 ppm
	TWA	200 ppm

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

Components	Type	Value
1-BUTANOL (CAS 71-36-3)	TWA	20 ppm
METHANOL (CAS 67-56-1)	STEL	250 ppm
	TWA	200 ppm

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

Components	Type	Value
1-BUTANOL (CAS 71-36-3)	TWA	20 ppm
METHANOL (CAS 67-56-1)	STEL	250 ppm
	TWA	200 ppm

Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety)

Components	Type	Value
1-BUTANOL (CAS 71-36-3)	Ceiling	152 mg/m3
		50 ppm
METHANOL (CAS 67-56-1)	STEL	328 mg/m3
		250 ppm
	TWA	262 mg/m3
		200 ppm

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

Components	Type	Value
1-BUTANOL (CAS 71-36-3)	15 minute	30 ppm
	8 hour	20 ppm
METHANOL (CAS 67-56-1)	15 minute	250 ppm
	8 hour	200 ppm

Biological limit values**ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling Time
METHANOL (CAS 67-56-1)	15 mg/l	Methanol	Urine	*

* - For sampling details, please see the source document.

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

METHANOL (CAS 67-56-1) Can be absorbed through the skin.

Canada - British Columbia OELs: Skin designation

METHANOL (CAS 67-56-1) Can be absorbed through the skin.

Canada - Manitoba OELs: Skin designation

METHANOL (CAS 67-56-1) Danger of cutaneous absorption

Canada - Ontario OELs: Skin designation

METHANOL (CAS 67-56-1) Can be absorbed through the skin.

Canada - Quebec OELs: Skin designation

1-BUTANOL (CAS 71-36-3)

Can be absorbed through the skin.

METHANOL (CAS 67-56-1)

Can be absorbed through the skin.

Canada - Saskatchewan OELs: Skin designation

METHANOL (CAS 67-56-1)

Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

METHANOL (CAS 67-56-1)

Danger of cutaneous absorption

Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. Good general ventilation 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. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Wear safety glasses with side shields (or goggles) meeting EN166 standard.

Skin protection**Hand protection**

Wear impervious chemically resistant gloves conforming to EN 374 standard. Recommended: Protective index 6, corresponding > 480 minutes of permeation time; nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm).

Other

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes).

Respiratory protection

Chemical respirator with organic vapor cartridge. Use a NIOSH/MSHA approved respirator or EN 140 compliant half-face respirator fitted with an EN 14387 Type A filter if there is a risk of exposure at levels exceeding the exposure limits. Follow device manufacturer's guidance.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not smoke. 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.

9. Physical and chemical properties**Appearance****Physical state**

Liquid.

Form

Liquid.

Color

Clear straw

Odor

Alcohol-like

Odor threshold

Not available.

pH

< 2

Melting point/freezing point

Not available.

Initial boiling point and boiling range

Not available.

Flash point

53.6 °F (12.0 °C)

Evaporation rate

Not available.

Flammability (solid, gas)

Not applicable.

Upper/lower flammability or explosive limits**Explosive limit - lower (%)**

Not available.

Explosive limit - upper (%)

Not available.

Vapor pressure

Not available.

Vapor density

Not available.

Relative density

Not available.

Solubility(ies)**Solubility (water)**

Soluble

Solubility (other)

Soluble in alcohols, esters, glycol ethers, glycols, ketones. Insoluble in aliphatics and aromatics.

Partition coefficient (n-octanol/water)

Not available.

Auto-ignition temperature

Not available.

Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	1.11 g/cm ³
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

10. Stability and reactivity

Reactivity	Reacts violently with strong alkaline substances. This product may react with reducing agents.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials. Do not mix with other chemicals.
Incompatible materials	Bases. Strong oxidizing agents. Reducing agents. Alkaline metals.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Toxic if inhaled. May cause damage to organs by inhalation. May cause drowsiness and dizziness. Headache. Nausea, vomiting.
Skin contact	Causes severe skin burns. Harmful in contact with skin.
Eye contact	Causes serious eye damage.
Ingestion	Causes digestive tract burns. Harmful if swallowed.
Symptoms related to the physical, chemical and toxicological characteristics	May cause drowsiness and dizziness. Headache. Nausea, vomiting. 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. May cause respiratory irritation.

Information on toxicological effects

Acute toxicity	Toxic if inhaled. Harmful in contact with skin. Harmful if swallowed.
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Components	Species	Test Results
1-BUTANOL (CAS 71-36-3)		
<u>Acute</u>		
Dermal		
<i>Liquid</i>		
LD50	Rabbit	3430 mg/kg
LD50	Rabbit	3400 mg/kg
Inhalation		
<i>Vapor</i>		
LC0	Rat	> 17.76 mg/l, 4 Hours No mortality observed
Oral		
<i>Liquid</i>		
LD50	Hamster	1200 mg/kg
LD50	Rat	790 mg/kg
BENZENESULFONIC ACID, 4-METHYL- (CAS 104-15-4)		
<u>Acute</u>		
Dermal		
<i>Liquid</i>		
LD50	Rabbit	> 2000 mg/kg
Inhalation		
<i>Vapor</i>		
LC50	Rat	>= 50 mg/kg

Components	Species	Test Results
Oral <i>Liquid</i> LD50	Rat	>= 1104 mg/kg Mortality attributed to acidity and corrosiveness.
METHANESULPHONIC ACID (CAS 75-75-2)		
<u>Acute</u> Dermal <i>Liquid</i> LD50	Rabbit	> 1000 mg/kg
Inhalation <i>Vapor</i> LC0		> 1.88 mg/m3, 1 Hours
Oral <i>Liquid</i> LD50	Rat	1158 mg/kg
METHANOL (CAS 67-56-1)		
<u>Acute</u> Dermal LD50	Rabbit	15800 mg/kg
Inhalation LC50	Rat	87.5 mg/l, 6 Hours
Oral <i>Liquid</i> LD50	Rat	1187 mg/kg
Skin corrosion/irritation	Causes severe skin burns and eye damage.	
Irritation Corrosion - Skin BENZENESULFONIC ACID, 4-METHYL- METHANESULPHONIC ACID 1-BUTANOL METHANOL	Result: Corrosive Result: Corrosive Result: Irritating Result: Not irritating	
Serious eye damage/eye irritation	Causes serious eye damage.	
Eye BENZENESULFONIC ACID, 4-METHYL- METHANOL 1-BUTANOL METHANESULPHONIC ACID	Result: Corrosive Result: Not irritating Result: Serious eye damage Result: Serious eye damage	
Respiratory or skin sensitization		
Canada - Alberta OELs: Irritant		
1-BUTANOL (CAS 71-36-3)	Irritant	
Respiratory sensitization	Based on available data, the classification criteria are not met.	
Skin sensitization	Based on available data, the classification criteria are not met.	
Sensitization 1-BUTANOL BENZENESULFONIC ACID, 4-METHYL- METHANESULPHONIC ACID METHANOL	Result: Not a sensitizer Result: Not a sensitizer Result: Not a sensitizer Result: Not a sensitizer	
Germ cell mutagenicity	Based on available data, the classification criteria are not met.	
Germ cell mutagenicity: Ames test 1-BUTANOL BENZENESULFONIC ACID, 4-METHYL- METHANESULPHONIC ACID METHANOL	Result: Negative Result: Negative Result: Negative Result: Negative	
Germ cell mutagenicity: Chromosome abberation 1-BUTANOL	Result: Negative	

Germ cell mutagenicity: Chromosome aberration

BENZENESULFONIC ACID, 4-METHYL-

Result: Negative

METHANESULPHONIC ACID

Result: Negative

METHANOL

Result: Negative

Mutagenicity

1-BUTANOL

Result: Negative

BENZENESULFONIC ACID, 4-METHYL-

Result: Negative

METHANESULPHONIC ACID

Result: Negative

METHANOL

Result: Negative

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

Developmental effects

BENZENESULFONIC ACID, 4-METHYL-

> 3000 mg/kg/day

Result: NOAEL

Species: Rat

1-BUTANOL

1454 mg/kg/day

Result: NOAEL

Reproductivity

METHANOL

2.39 mg/l

Result: NOAEC

1-BUTANOL

750 ppm

Result: NOAEC

Specific target organ toxicity - single exposure

Causes damage to organs. May cause respiratory irritation. May cause drowsiness and dizziness.

Specific target organ toxicity - repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Not likely, due to the form of the product.

Chronic effects

Prolonged inhalation may be harmful.

12. Ecological information**Ecotoxicity**

Based on available data, the classification criteria are not met for hazardous to the aquatic environment.

Components		Species	Test Results
1-BUTANOL (CAS 71-36-3)			
Acute			
Other	EC10	Pseudomonas putida	2476 mg/l, 17 Hours
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	100 - 500 mg/l, 96 hours
Acute			
Algae	EC50	Algae	225 mg/l, 96 Hours
Crustacea	EC50	Daphnia	1328 mg/l, 48 Hours
Fish	LC50	Fish	1376 mg/l, 96 Hours
Chronic			
Crustacea	NOEC	Daphnia	4.1 mg/l, 21 days
BENZENESULFONIC ACID, 4-METHYL- (CAS 104-15-4)			
Acute			
Other	NOEC	Activated sludge of a predominantly domestic sewage	580 mg/l, 3 Hours
Aquatic			
Acute			
Algae	NOEC	Pseudokirchnerella subcapitata	44.8 mg/l, 72 Hours
Crustacea	EC50	Daphnia magna	> 103 mg/l, 48 Hours
Fish	LC50	Fish	> 500 mg/l, 96 Hours
METHANOL (CAS 67-56-1)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	> 10000 mg/l, 48 hours

Components	Species	Test Results
Fish	LC50	Fathead minnow (Pimephales promelas) > 100 mg/l, 96 hours
Persistence and degradability	No data is available on the degradability of the mixture.	
Bioaccumulative potential		
Partition coefficient n-octanol / water (log Kow)		
1-BUTANOL	0.88	
BENZENESULFONIC ACID, 4-METHYL-	-0.96	
METHANESULPHONIC ACID	-2.38	
METHANOL	-0.77	
Mobility in soil	No data available.	
Other adverse effects	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		
Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Dispose of contents/container in accordance with local/regional/national/international regulations.	
Local disposal regulations	Dispose in accordance with all applicable regulations.	
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.	
Waste from residues / unused products	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).	
Contaminated packaging	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		
TDG		
UN number	UN2924	
UN proper shipping name	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (METHANOL; METHANESULPHONIC ACID)	
Transport hazard class(es)		
Class	3	
Subsidiary risk	8	
Packing group	II	
Environmental hazards	Not available.	
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.	
IATA		
UN number	UN2924	
UN proper shipping name	Flammable liquid, corrosive, n.o.s. (METHANOL; METHANESULPHONIC ACID)	
Transport hazard class(es)		
Class	3	
Subsidiary risk	8	
Packing group	II	
Environmental hazards	No.	
ERG Code	3CH	
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.	
Other information		
Passenger and cargo aircraft	Allowed with restrictions.	
Cargo aircraft only	Allowed with restrictions.	
IMDG		
UN number	UN2924	
UN proper shipping name	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (METHANOL; METHANESULPHONIC ACID)	
Transport hazard class(es)		
Class	3	
Subsidiary risk	8	
Packing group	II	
Environmental hazards		
Marine pollutant	No.	

EmS

F-E, S-C

Special precautions for user

Read safety instructions, SDS and emergency procedures before handling.

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

Not established.

IATA; IMDG; TDG



15. Regulatory information

Canadian 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.

Controlled Drugs and Substances Act

Not regulated.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

Ontario. Toxic Substances. Toxic Reduction Act, 2009. Regulation 455/09 (July 1, 2011)

METHANOL (CAS 67-56-1)

Precursor Control Regulations

Not regulated.

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto protocol

Not applicable.

Montreal Protocol

Not applicable.

Basel Convention

Not applicable.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

Country(s) or region	Inventory name	On inventory (yes/no)*
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
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)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information

Issue date 04-10-2017

Revision date 08-31-2021

Version # 03

List of abbreviations

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures).
CAS: Chemical Abstract Service.
CEN: European Committee for Standardization (Comité Européen de Normalisation).
EC: European Community.
EC50: Effective Concentration 50%.
ECHA: European Chemical Agency.
IBC Code: International Bulk Chemical (Code) (International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk).
LC50: Lethal Concentration 50%.
LD50: Lethal Dose 50%.
NFPA: National Fire Protection Association.
NIOSH: National Institute for Occupational Safety & Health.
NOAEC: No Observed Adverse Effect Concentration.
OECD: Organization for Economic Cooperation and Development.
OSHA: Occupational Safety & Health Administration.
QSAR: Quantitative Structure Activity Relation.
UN: United Nations.
CLP: Classification, Labeling and Packaging.
EN: European Norm.
NOAEL: No Observed Adverse Effect Level.
NOEC: No Observed Effect Concentration.
REACH: Registration, Evaluation and Authorization of Chemicals.
SDS: Safety Data Sheet.

Disclaimer

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.

Revision information

Section 2: The classification of the product has been updated.
Section 3: Ingredient(s) disclosure has been updated.
Section 8: Specifications on recommended hand, face, eye, and respiratory protection were added
Sections 11 and 12: Ingredient hazard information updated.
Section 14: Updated Transport information.
Section 16: Added list of abbreviations.