

**SAFETY DATA SHEET (SDS)****Section 1. Identification**

<b>Product identifier</b>	LABSHIELD ECO COLOR, Part A
<b>Other means of identification</b>	LSE-Color-A
<b>Recommended use and restrictions on use</b>	Floor coating
<b>Initial supplier identifier</b>	Labsurface. 101-1079 des Forges, Terrebonne, J6Y 0J9, Qué (Canada) Tél. (450) 966-9000
<b>Emergency telephone number/restriction on use</b>	Canada – CANUTEC Number 24 hours 613-996-6666

**Section 2. Hazard Identification**

<b>Classification of hazardous product (name of the category or subcategory of the hazard class)</b>
Skin sensitization (Category 1) Hazardous to the aquatic environment, long-term hazard (Category 3) Carcinogenicity (Category 2)

**Information elements (symbols, signal words, hazard statements and precautionary statements of the category/subcategory)****Warning**

H317 May cause an allergic skin reaction

H351 Suspected of causing cancer.

H412 Harmful to aquatic life with long lasting effects

**Prevention**

P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P261 Avoid breathing dust/fume/gas/mist/vapors/spray. P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment P280 Wear gloves/protective clothing/gloves/eye protection/face protection.

**Response**

IF ON SKIN: P302 + P352 Wash with plenty of water. P333 + P313 If skin irritation or rash occurs: Get medical attention. P362 + P364 Take off contaminated clothing and wash it before reuse. P308 + P313 IF exposed or concerned: Get medical attention.

**Storage**

P405 Store locked up.

**Disposal**

P501 Dispose of contents/container into safe container in accordance with local, regional or national regulations.

**Other hazards known** | None**Section 3. Composition/Information on Ingredients**

<b>Chemical name (common name/synonyms)</b>	<b>CAS number or other</b>	<b>Concentration (%)*</b>
Diethyl fumarate	623-91-6	< 30 %
Aspartic Ester	152637-10-0	< 20 %
<b>Colors may contain:</b>		
Titanium dioxide	13463-67-7	< 25 %
Amorphous silica	7631-86-9	< 2 %
Aluminium hydroxide	21645-51-2	< 2 %
Carbon black	1333-86-4	< 25 %

\*Statement - This safety data sheet provides concentration range(s) instead of the actual concentration(s) considered trade secret(s).

**Section 4. First-Aid Measures**

<b>Inhalation</b>	IF INHALED: Move person to fresh air and keep comfortable for breathing. If symptoms persist, seek medical attention.
<b>Ingestion</b>	IF SWALLOWED: Immediately call a doctor. Prevent aspiration of vomit. Wash mouth out with water. Never give anything by mouth to an unconscious person.
<b>Skin contact</b>	IF ON SKIN: Take off contaminated clothing, wash immediately with plenty of water (20 - 30 minutes). If skin irritation occurs: Get medical attention. Wash clothing before reuse. If symptoms persist, seek medical attention.
<b>Eye contact</b>	IF IN EYES, Rinse cautiously with water for several minutes (20 - 30 minutes). Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
<b>Most important symptoms and effects (acute or delayed)</b>	May cause an allergic skin reaction. Suspected of causing cancer.
<b>Indication of immediate medical attention/special treatment</b>	In all cases, call a doctor. Do not forget this document.

**Section 5. Fire-Fighting Measures**

<b>Specific hazards of the hazardous product (hazardous combustion products)</b>	Carbon monoxide, toxic fumes, ammonia gas, nitrogen oxide.
<b>Suitable and unsuitable extinguishing media</b>	



In case of fire: Use Carbon dioxide (CO <sub>2</sub> ), dry chemical, alcohol resistant foam.			
<b>Special protective equipment and precautions for fire-fighters</b>			
During a fire, irritating/toxic fumes may be generated. Do not enter fire area without proper protection. Firefighters should wear proper protective equipment as required. Shield personnel to protect from venting, rupturing or bursting cans. Move containers from fire area if it can be done without risk.			
<b>Section 6. Accidental Release Measures</b>			
<b>Personal precautions, protective equipment and emergency procedures</b>			
Evacuate non-emergency personnel. Isolate the area and prevent access. Control source of the leak. Ensure clean-up is conducted by trained personnel only. All persons dealing with clean-up should wear the appropriate protective equipment (See Section 8). Prevent the spill spread into drains, sewers, water supplies, or soil.			
<b>Methods and materials for containment and cleaning up</b>			
Avoid prolonged exposure. Stop leak if you can do it without risk. Do not touch or walk through spilled material. Spill should be contained with inert material and disposed into suitable retaining area. Small volumes of liquid may be contained or absorbed into an appropriate absorbent. Keep away from all watercourses. Do not flush down storm or sanitary sewer. Dispose of in accordance with local, provincial and federal regulations.			
<b>Section 7. Handling and Storage</b>			
<b>Precautions for safe handling</b>			
Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear gloves/protective clothing/gloves/eye protection/face protection.			
<b>Conditions for safe storage, including any incompatibilities</b>			
Store in a cool, well-ventilated area. Keep container closed when not in use. Do not handle or store near open flames, heat or other sources of ignition. Store away from incompatible materials (Section 10). Inspect all incoming containers to make sure they are properly labelled and not damaged. Storage area should be clearly identified, clear of obstruction and accessible only to trained personnel. Inspect periodically for damage or leaks. Storage temperature: 16 - 27 °C.			
<b>Section 8. Exposure Controls/Personal Protection</b>			
<b>Control parameters (biological limit values or exposure limit values and source of those values)</b>			
Exposure Limits: ACGIH – TLV-TWA CAS 1333-86-4 – ACGIH – TLV-TWA 3 mg/m <sup>3</sup> & PEL-TWA 3.5 mg/m <sup>3</sup> ; CAS 13463-67-7 ACGIH – TLV-TWA 10 mg/m <sup>3</sup> & PEL-TWA 10 mg/m <sup>3</sup> ; CAS 7631-86-9 PEL-TWA 80 mg/m <sup>3</sup> ; CAS 21645-51-2 ACGIH – TLV-TWA 1 mg/m <sup>3</sup>			
<b>Appropriate engineering controls</b>			
Use product in well-ventilated areas. Do not spray the product. Local exhaust ventilation system is recommended to maintain concentrations of contaminants below exposure limits. Supply emergency safety/quick-drench shower, eyewash station and washing facilities available in work area and near handling area. Where such systems are not effective, wear suitable personal protection equipment which performs satisfactorily and meets recognized standards.			
<b>Individual protection measures/personal protective equipment</b>			
Gloves: Neopren gloves or equivalent; Clothing: Shirts with long sleeves, long pants; Respiratory: Not required if working area is well ventilated. Use a NIOSH approved respirators if the exposure limits are unknown; Equipment: Safety glasses, chemical resistant. Special instructions for protection and hygiene: Wash hands/nails/face thoroughly after handling. Do not eat, drink or smoke when using this product. Practice good personal hygiene after using this material. Remove and wash contaminated work clothing before re-use. Educate and train employees in the safe use and handling of this product. Follow all label instructions.			
<b>Section 9. Physical and Chemical Properties</b>			
<b>Appearance, physical state/colour</b>	Liquid	<b>Vapour pressure</b>	Not available
<b>Odour</b>	Faint odor	<b>Vapour density</b>	Not available
<b>Odour threshold</b>	Not available	<b>Relative density</b>	Not available
<b>pH</b>	Not available	<b>Solubility</b>	Not soluble
<b>Melting/freezing point</b>	Not available	<b>Partition coefficient - n-octanol/water</b>	Not available
<b>Initial boiling point/range</b>	Not available	<b>Auto-ignition temperature</b>	Not available
<b>Flash point</b>	> 93 °C	<b>Decomposition temperature</b>	Not available
<b>Evaporation rate</b>	Not available	<b>Viscosity</b>	Not available
<b>Flammability (solids and gases)</b>	Not available	<b>VOC</b>	Not available
<b>Upper and lower flammability/explosive limits</b>	Not available	<b>Other</b>	None known
<b>Section 10. Stability and Reactivity</b>			
<b>Reactivity</b>			
Stable under normal conditions.			
<b>Chemical stability</b>			
Yes, Stable under the recommended storage and handling conditions prescribed.			
<b>Possibility of hazardous reactions</b>			
Non under normal conditions of storage and use.			
<b>Conditions to avoid (static discharge, shock or vibration)</b>			
Excess heat			
<b>Incompatible materials</b>			



Organic acid, mineral acid, peroxide, oxidizing agents, nitrous acid, sodium hypochlorite.	
<b>Hazardous decomposition products</b>	
Nitrogen oxide, carbon mono and dioxide, nitrosamine, nitric acid, ammonia.	
<b>Section 11. Toxicological Information</b>	
<b>Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact)</b>	
May cause an allergic skin reaction Suspected of causing cancer.	
<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	
May cause nose, throat and lung irritation. In high concentration, inhalation of vapors and/or aerosols may cause irritation of respiratory system. Skin irritation, redness, stinging; Eye irritation/redness.	
<b>Delayed and immediate effects (chronic effects from short-term and long-term exposure)</b>	
Skin Sensitization – May cause allergic skin reaction. Skin disorders and Allergies. Respiratory Sensitization – No data available; Germ Cell Mutagenicity – No data available; Carcinogenicity – Ingredients listed by IARC, ACGIH, NTP or OSHA; Reproductive Toxicity – No data available; Specific Target Organ Toxicity — Single Exposure – No data available; Specific Target Organ Toxicity — Repeated Exposure – No data available; Aspiration Hazard – No data available; Health Hazards Not Otherwise Classified – No data available.	
<b>Numerical measures of toxicity (ATE; LD<sub>50</sub> &amp; LC<sub>50</sub>)</b>	
CAS 623-91-6: Acute toxicity oral LD50-rat: 1,367mg/kg; CAS 152637-10-0: Acute Toxicity Oral/dermal: LD50-rat: >2.000mg/kg; Acute Toxicity Inhalation: LD50-rat: >4.224mg/m <sup>3</sup> 4h; ATE not available in this document.	
<b>Section 12. Ecological Information</b>	
<b>Ecotoxicity (aquatic and terrestrial information)</b>	
<b>Toxicity to fish:</b> CAS 623-91-6: - LC50: 66mg/l (Zebra fish (Brachydanio rerio) 96h); <b>Toxicity to Aquatic Invertebrates:</b> CAS 623-91-6: EC 50: 88.6 mg/l (Water flea (Daphnia magna) 48h) ; <b>Toxicity to Aquatic and terrestrial Plants:</b> CAS 623-91-6: EC 50: 3110 mg/l (Green algae (Scenedesmus subspicatus) 72h); 111 mg/l, 72h.	
<b>Persistence and degradability</b>	No data available
<b>Bioaccumulative potential</b>	No data available
<b>Mobility in soil</b>	No data available
<b>Other adverse effects</b>	Harmful to aquatic organism, may cause long-term adverse effects in aquatic environment.
<b>Section 13. Disposal Considerations</b>	
<b>Information on safe handling for disposal/methods of disposal/contaminated packaging</b>	
Dispose in a suitable waste treatment facility in compliance with all federal, provincial and local regulations.	
<b>Section 14. Transport Information</b>	
<b>UN number; Proper shipping name; Class(es); Packing group (PG) of the TDG Regulations</b>	
Not regulated	
<b>UN number; Proper shipping name; Class(es); Packing group (PG) of the IMDG (maritime)</b>	
Not regulated	
<b>UN number; Proper shipping name; Class(es); Packing group (PG) of the IATA (air)</b>	
Not regulated	
<b>Special precautions (transport/conveyance)</b>	None
<b>Environmental hazards (IMDG or other)</b>	None
<b>Bulk transport (usually more than 450 L in capacity)</b>	None
<b>Section 15. Regulatory Information</b>	
<b>Safety/health Canadian regulations specifics</b>	This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR).
<b>Environmental Canadian regulations specifics</b>	Refer to Section 3 for ingredient(s) of the DSL
<b>Safety/health/environmental outside regulations specifics</b>	
United States OSHA information: This product is regulated according to OSHA (29 CFR). United States EPA (Environmental Protection Agency) information: 40 CFR Refer to the ingredients listed in Section 3 & Sections 12; 13 & 14. United States TCSA information: Refer to the ingredients listed in Section 3. California Proposition 65: For Color, White and Black <b>WARNING:</b> This product contains Titanium dioxide (CAS 13467-67-7) & Carbon black (CAS 1333-86-2) known to the State of California to cause cancer or other reproductive harm.	
<b>Section 16. Other Information</b>	
<b>Date of the latest revision of the safety data sheet</b>	November 22, 2019 - version 02
<b>Corrections</b>	Sections 1; 2; 3; 4; 7; 8; 9; 11; 15
<b>References</b>	Safety Data Sheets from manufacturer/supplier & from Sigma-Aldrich.com & Echa.eurpea.eu.
<b>Abbreviations</b>	
ACGIH	American Conference of Governmental Industrial Hygienists
ATE	Acute toxicity estimate
CAS	Chemical Abstract Service
DSL	Domestic Substance List
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association



IMDG	International Maritime Dangerous Goods Code
LC	Lethal concentration
LD	Lethal Dosage
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program (U.S.A.)
OSHA	Occupational Safety and Health Administration (U.S.A.)
PEL	Permissible Exposure Limit
STEL	Short-term Exposure Limit
TDG	Transport of dangerous goods in Canada
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average
WHMIS	Workplace Hazardous Materials Information System

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**SAFETY DATA SHEET (SDS)****Section 1. Identification**

<b>Product identifier</b>	LABSHIELD ECO, Part B
<b>Other means of identification</b>	LSE-B
<b>Recommended use and restrictions on use</b>	Top Coat Polycarbamide
<b>Initial supplier identifier</b>	LabSurface. 101-1079, rue des Forges, Terrebonne, QC, J6Y 0J9 (Canada) Tél. (450) 966-9000
<b>Emergency telephone number/restriction on use</b>	Canada – CANUTEC Number 24 hours 613-996-6666

**Section 2. Hazard Identification**

<b>Classification of hazardous product (name of the category or subcategory of the hazard class)</b>
Skin irritation (Category 2) Skin sensitization (Category 1) Acute toxicity, Inhalation (Category 4) Sensitisation Respiratory (Category 1) Specific target organ toxicity, single exposure, respiratory tract irritation (STOT, SE) (Category 3) Hazardous to the aquatic environment, acute hazard (Category 3)

**Information elements (symbols, signal words, hazard statements and precautionary statements of the category/subcategory)****Warning**

H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H332 Harmful if inhaled.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335 May cause respiratory irritation.  
H402 Harmful to aquatic life.

**Prevention**

P261 Avoid breathing dust/fume/gas/mist/vapors/spray. P264 Wash hands/nails/face/eyes thoroughly after handling. P271 Use only outdoors or in a well ventilated area. P273 Avoid release to the environment P280 Wear gloves/protective clothing/gloves/eye protection/face protection. P284 (In case of inadequate ventilation) wear respiratory protection.

**Response**

IF ON SKIN: P302 + P352 Wash with plenty of water. P333 + P317 If skin irritation or rash occurs: Get emergency medical help P362 + P364 Take off contaminated clothing and wash it before reuse.  
IF INHALED: P304 + P340 Remove person to fresh air and keep comfortable for breathing. P317 Get emergency medical help. P342 + P316 If experiencing respiratory symptoms: Get emergency medical help immediately.  
P391 Collect spillage

**Storage**

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

**Disposal**

P501 Dispose of contents/container into safe container in accordance with local, regional or national regulations.

**Other hazards known** | None

**Section 3. Composition/Information on Ingredients**

<b>Chemical name (common name/synonyms)</b>	<b>CAS number or other</b>	<b>Concentration (%)*</b>
1,6-Hexamethylene Diisocyanate Based Polyisocyanate	28182-81-2	60 - 100 %
Trade secret	----	1 - 10 %

\*Statement - This safety data sheet provides concentration range(s) instead of the actual concentration(s) considered trade secret(s)

**Section 4. First-Aid Measures**

<b>Inhalation</b>	IF INHALED: if overexposure remove person to fresh air and keep comfortable for breathing. Administer oxygen or artificial respiration as needed. Asthmatic symptoms may develop and may be immediate or delayed up to several hours. Extreme asthmatic reactions can be life threatening. If symptoms persist, get medical attention.
<b>Ingestion</b>	IF SWALLOWED: Prevent aspiration of vomit. Do not give anything by mouth to an unconscious person. If symptoms persist, seek medical attention
<b>Skin contact</b>	IF ON SKIN: Immediately take off contaminated clothing and shoes. Wash with soap and plenty of water (20- 30 minutes). Use lukewarm water if possible. If symptoms persist: Get medical attention. Wash contaminated clothing before reuse. For several exposures, immediately get under safety shower and begin rinsing.



<b>Eye contact</b>	IF IN EYES, In case of contact, immediately rinse cautiously with water for several minutes (20 - 30 minutes). Use lukewarm water if possible. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritations persist: Get medical attention.		
<b>Most important symptoms and effects (acute or delayed)</b>	Causes skin irritation. May cause an allergic skin reaction. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation.		
<b>Indication of immediate medical attention/special treatment</b>	In all cases, call a doctor. Do not forget this document.		
<b>Section 5. Fire-Fighting Measures</b>			
<b>Specific hazards of the hazardous product (hazardous combustion products)</b>			
Carbon monoxide (CO), toxic fumes.			
<b>Suitable and unsuitable extinguishing media</b>			
In case of fire: Use carbon dioxide (CO <sub>2</sub> ), dry chemical.			
<b>Special protective equipment and precautions for fire-fighters</b>			
During a fire, irritating/toxic fumes may be generated. Do not enter fire area without proper protection. Firefighters should wear proper protective equipment as required.			
<b>Section 6. Accidental Release Measures</b>			
<b>Personal precautions, protective equipment and emergency procedures</b>			
<b>Spill and Leak Procedures</b>			
Evacuate non-emergency personnel. Isolate the area and prevent access. Control source of the leak. Ensure clean-up is conducted by trained personnel only. All persons dealing with clean-up should wear the appropriate protective equipment (See Section 8). Prevent the spill spread into drains, sewers, water supplies, or soil.			
<b>Methods and materials for containment and cleaning up</b>			
Avoid prolonged exposure. Stop leak if you can do it without risk. Do not touch or walk through spilled material. Spill should be contained with inert material and disposed into suitable retaining area. Small volumes of liquid may be contained or absorbed into an appropriate absorbent. Keep away from all watercourses. Do not flush down storm or sanitary sewer. Take precautionary measures against static discharges. Dispose of in accordance with local, provincial and federal regulations.			
<b>Section 7. Handling and Storage</b>			
<b>Precautions for safe handling</b>			
Avoid breathing dust/fume/gas/mist/vapors/spray. Wash hands/nails/face/eyes thoroughly after handling. Use only outdoors or in a well ventilated area. Avoid release to the environment. Wear gloves/protective clothing/gloves/eye protection/face protection. (In case of inadequate ventilation) wear respiratory protection			
<b>Conditions for safe storage, including any incompatibilities</b>			
Store in a cool, well-ventilated area. Keep container closed when not in use. Do not handle or store near open flames, heat or other sources of ignition. Store away from incompatible materials (Section 10). Inspect all incoming containers to make sure they are properly labelled and not damaged. Storage area should be clearly identified, clear of obstruction and accessible only to trained personnel. Inspect periodically for damage or leaks. Storage temperature: 16 - 27 °C.			
<b>Section 8. Exposure Controls/Personal Protection</b>			
<b>Control parameters (biological limit values or exposure limit values and source of those values)</b>			
Exposure Limit: ACGIH – TLV-TWA: CAS 28182-81-2 0.5 mg/m <sup>3</sup>			
<b>Appropriate engineering controls</b>			
Use product in well-ventilated areas. Do not spray the product. Local exhaust ventilation system is recommended to maintain concentrations of contaminants below exposure limits. Supply emergency safety/quick-drench shower, eyewash station and washing facilities available in work area and near handling area. Where such systems are not effective, wear suitable personal protection equipment which performs satisfactorily and meets recognized standards.			
<b>Individual protection measures/personal protective equipment</b>			
Gloves: Neopren gloves or equivalent; Clothing: Shirts with long sleeves, long pants; Respiratory: Not required if working area is well ventilated. Use a NIOSH approved respirators if the exposure limits are unknown; Equipment: Safety glasses, chemical resistant. Special instructions for protection and hygiene: Wash hands/nails/face thoroughly after handling. Do not eat, drink or smoke when using this product. Practice good personal hygiene after using this material. Remove and wash contaminated work clothing before re-use. Educate and train employees in the safe use and handling of this product. Follow all label instructions.			
<b>Section 9. Physical and Chemical Properties</b>			
<b>Appearance, physical state/colour</b>	Liquid	<b>Vapour pressure</b>	Not available
<b>Odour</b>	Faint odor	<b>Vapour density</b>	Not available
<b>Odour threshold</b>	Not available	<b>Relative density</b>	Not available
<b>pH</b>	Not available	<b>Solubility</b>	Reacts
<b>Melting/freezing point</b>	Not available	<b>Partition coefficient - n-octanol/water</b>	Not available
<b>Initial boiling point/range</b>	Not applicable.	<b>Auto-ignition temperature</b>	Not available
<b>Flash point</b>	> 150 °C	<b>Decomposition temperature</b>	Not available
<b>Evaporation rate</b>	Not available	<b>Viscosity</b>	Not available
<b>Flammability (solids and gases)</b>	Not available	<b>VOC</b>	Not available
<b>Upper and lower flammability/explosive limits</b>	Not available	<b>Other</b>	None known



<b>Section 10. Stability and Reactivity</b>	
<b>Reactivity</b>	
Stable under normal conditions.	
<b>Chemical stability</b>	
Yes, Stable under the recommended storage and handling conditions prescribed.	
<b>Possibility of hazardous reactions</b>	
Contact with moisture, may cause polymerization with temperatures above 170 °C	
<b>Conditions to avoid (static discharge, shock or vibration)</b>	
Excess heat	
<b>Incompatible materials</b>	
Acid, amine, humidity, alcohol, metal, oxidizing agents.	
<b>Hazardous decomposition products</b>	
Cyanate and isocyanate, acid, cyanogen, nitrile, hydrogen cyanide, carbon mono and dioxide	
<b>Section 11. Toxicological Information</b>	
<b>Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact)</b>	
Causes skin irritation. May cause an allergic skin reaction. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation.	
<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	
No specific information available.	
<b>Delayed and immediate effects (chronic effects from short-term and long-term exposure)</b>	
Skin Sensitization – May cause allergic skin reaction. Skin disorders and Allergies. Respiratory Sensitization – No data available; Germ Cell Mutagenicity – No data available; Carcinogenicity – No ingredient listed by IARC, ACGIH, NTP or OSHA; Reproductive Toxicity – No data available; Specific Target Organ Toxicity — Single Exposure – No data available; Specific Target Organ Toxicity — Repeated Exposure – No data available; Aspiration Hazard – No data available; Health Hazards Not Otherwise Classified – No data available.	
<b>Numerical measures of toxicity (ATE; LD<sub>50</sub> &amp; LC<sub>50</sub>)</b>	
CAS 28182-81-2: Acute Oral Toxicity: LD <sub>50</sub> : > 5,000 mg/kg (rat) Estimated Value; Acute Inhalation Toxicity: LC <sub>50</sub> : 390 – 453 mg/m <sup>3</sup> , aerosol, 4 h (rat). LD <sub>50</sub> : 20.8 mg/m <sup>3</sup> , 3 h; Acute dermal toxicity: LD <sub>50</sub> : > 5,000 mg/kg (rabbit). ATE not available in this document.	
<b>Section 12. Ecological Information</b>	
<b>Ecotoxicity (aquatic and terrestrial information):</b>	
<b>Acute and prolonged Toxicity to Fish:</b> CAS 28182-81-2: Acute and Prolonged LC <sub>50</sub> : > 100 mg/L (Zebra fish (Brachydanio rerio) 96h) ; <b>Acute Toxicity to Aquatic Invertebrates:</b> CAS 28182-81-2 EC <sub>50</sub> : > 100 mg/L (Water flea (Daphnia magna) 48 h); <b>Toxicity to Aquatic Plants:</b> CAS 28182-81-2 EC <sub>50</sub> : > 1,000 mg/L, (Green algae (Scenedesmus subspicatus) 72 h); <b>Toxicity to Microorganisms:</b> CAS 28182-81-2 EC <sub>50</sub> : > 1,000 mg/L, (Activated sludge microorganism, 3 h).	
<b>Persistence and degradability</b>	CAS 28182-81-2: 0%, Exposure time: 28 Days, Not readily biodegradable.
<b>Bioaccumulative potential</b>	No data available
<b>Mobility in soil</b>	No data available
<b>Other adverse effects</b>	Harmful to aquatic life.
<b>Section 13. Disposal Considerations</b>	
<b>Information on safe handling for disposal/methods of disposal/contaminated packaging</b>	
Dispose of contents/container into safe container in accordance with local, regional or national regulations.	
<b>Section 14. Transport Information</b>	
<b>UN number; Proper shipping name; Class(es); Packing group (PG) of the TDG Regulations</b>	
Not regulated.	
<b>UN number; Proper shipping name; Class(es); Packing group (PG) of the IMDG (maritime)</b>	
Not regulated.	
<b>UN number; Proper shipping name; Class(es); Packing group (PG) of the IATA (air)</b>	
Not regulated.	
<b>Special precautions (transport/conveyance)</b>	None
<b>Environmental hazards (IMDG or other)</b>	None
<b>Bulk transport (usually more than 450 L in capacity)</b>	None
<b>Section 15. Regulatory Information</b>	
<b>Safety/health Canadian regulations specifics</b>	This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR).
<b>Environmental Canadian regulations specifics</b>	Refer to Section 3 for ingredient(s) of the DSL.
<b>Safety/health/environmental outside regulations specifics</b>	
<b>United States Federal Regulations</b>	
United States OSHA information: This product is regulated according to OSHA (29 CFR).	



California Proposition 65: This product does not contain an ingredient known to the State of California to cause cancer or other reproductive harm.

United States EPA (Environmental Protection Agency) information: 40 CFR Refer to the ingredients listed in Section 3 & Sections 12; 13 & 14.

United States TCSA information: Refer to the ingredients listed in Section 3.

**Section 16. Other Information**

**Date of the latest revision of the safety data sheet** | February 15, 2023 - version 03

**Corrections** | Section 2, 3, 7, 8,11, 15, 16

**References** | Safety Data Sheets from manufacturer/supplier & from Sigma-Aldrich.com & Echa.eurpea.eu.

**Abbreviations**

ACGIH	American Conference of Governmental Industrial Hygienists
ATE	Acute toxicity estimate
CAS	Chemical Abstract Service
DSL	Domestic Substance List
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods Code
LC	Lethal concentration
LD	Lethal Dosage
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program (U.S.A.)
OSHA	Occupational Safety and Health Administration (U.S.A.)
PEL	Permissible Exposure Limit
STEL	Short-term Exposure Limit
TDG	Transport of dangerous goods in Canada
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average
WHMIS	Workplace Hazardous Materials Information System

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