



PRODUCT IDENTIFIER – COMP. A – 100% SOLIDS EPOXY
842315052011 • 842315052028 • 842315052035 • 842315052042

DATE & VERSION – MAY 9, 2016 – Version 1.1

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SAFETY DATA SHEET (SDS)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Component A | 100% solids Epoxy
Other means of identification: None
Recommended use: Epoxy Resin
Manufactured by: CTM Adhesives Inc.
8320 Grenache Street
Montreal, QC H1J 1C5
CANADA
E-mail Address : www.ctmadhesives.com
Prepared by: The Health, Safety and Environmental Department of CTM Adhesives
Telephone number of preparer: 514-321-5540
Fax number: 514-321-5570

Emergency Telephone Number:

24-Hour Emergency Telephone Number Canada (CANUTEC) : (613) 996-6666

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification of hazardous product

Skin Sensitization (Category 1B)
Skin Corrosion/irritation (Category 2)
Serious eye damage/irritation (Category 2A)
Acute Toxicity, Oral (Category 5)
Hazardous to the aquatic environment - acute (Category 2)
Hazardous to the aquatic environment - chronic (Category 2)

GHS Label Elements

Hazard Pictograms/symbols



Signal Word: WARNING

Hazard and Precautionary Statements:

H303 May be harmful if swallowed
H315 Causes skin irritation
H317 May cause an allergic skin reaction
H319 Causes serious eye irritation
H401 Toxic to aquatic life
H411 Toxic to aquatic life with long lasting effects

P261 Avoid breathing dust/fume/gas/mist/vapours/spray. **P264** Wash with plenty of water and soap thoroughly after handling. **P272** Contaminated work clothing should not be allowed out of the workplace. **P280** Wear protective gloves/eye protection. **P305 + P351 + P338** **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. **P337 + P313** If eye irritation persists: Get medical advice/attention. **P302 + P352** **IF ON SKIN:** Wash with plenty of water. **P333 + P313** If skin irritation or rash occurs: Get medical advice/attention. **P312** **IF SWALLOWED:** Call a POISON Center/doctor/...if you feel unwell. **P362 + P364** Take off contaminated clothing and wash before reuse. **P273** Avoid release to the environment. **P391** Collect spillage. **P501** Dispose of contents/container into safe container in accordance with local, regional or national regulations.

Other Hazards Known: None known

GHS Special Labeling: EUH205 - "Contains epoxy constituents. See information supplied by the manufacture."



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SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Concentration (%)</u>
Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin	25085-99-8	60 - 100 %
alkyl glycidyl ether	68609-97-2	1 - 10 %
benzyl alcohol	100-51-6	1 - 10 %

SECTION 4. FIRST AID MEASURES

<u>Ingestion</u>	IF SWALLOWED: Call a POISON Center/doctor/...if you feel unwell.
<u>Skin Contact</u>	IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention.
<u>Eye Contact</u>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. If eye irritation persists: Get medical advice/attention

Most important symptoms and effects (acute and delayed)

Prolonged or repeated contact may cause skin irritation with local redness. May cause eye irritation. Corneal injury is unlikely. Has caused allergic skin reactions in humans.

Indication of any immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically.

General Information

If exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure the 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.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media: In case of fire: Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂)

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this might spread the fire.

Specific hazards arising from the hazardous product: During fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating.

Special protective equipment and precautions for fire-fighting: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire-fighting clothing. Avoid contact with this material during fire-fighting operations. If contact is likely, change to full chemical resistant fire-fighting clothing with self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Isolate area. Keep unnecessary and unprotected personnel away. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillage cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Large spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent product from entering drains. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material. 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

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.



SAFETY DATA SHEET (SDS)

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

Avoid prolonged or repeated contact with skin. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid use of electric band heaters. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in cool and dry, under well-ventilated conditions. Store away from incompatible materials (see Section 10 of the SDS). Keep container closed when not in use. Do not reuse empty container without commercial cleaning or reconditioning.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters (biological limit values or exposure limit values and source of those values)

Exposure limits:

CAS 25085-99-8	For Workers: Acute - systemic effects Dermal 8.330 mg/kg bw/day Inhalation 12.25 mg/m ³ For Consumers: Acute - systemic effects Dermal 3.571 mg/kg bw/day Inhalation 0.75 mg/m ³ For Workers: Long-term - systemic effects Dermal 8.330 mg/kg bw/day Inhalation 12.25 mg/m ³ For Consumers: Long-term - systemic effects Dermal 3.571 mg/kg bw/day Inhalation 0.75 mg/m ³
CAS 68609-97-2	No exposure limits noted for the ingredient(s)
CAS 100-51-6	No exposure limits noted for the ingredient(s)

Engineering Controls

Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines.

Personal Protective Equipment

Wear a NIOSH-certified (or equivalent) organic vapor/particulate respirator. Wear appropriate chemical resistant protective gloves. Wear tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists. Wear appropriate protective clothing. When using, do not eat, drink or smoke. 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. Eyewash fountains and safety showers are recommended in the work area.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State/ Appearance/ Color:	Transparent liquid, Clear	Vapour Pressure:	Not available
Odour:	Odorless to mild	Vapour Density:	Not available
Odour threshold:	Not available	Relative Density:	1.122 (g/ml)
pH:	Not available	Solubility:	Partial
Melting/freezing point:	Not available	Partition coefficient-n-octanol/water:	Not available
Initial boiling point/range:	Not available	Auto-ignition temperature:	Not available
Flash point (closed cup):	> 93 °C	Decomposition temperature:	Not available
Evaporation rate:	Not available	Viscosity:	1200 - 1400 cps
Flammability (solids and gases):	Not available	VOC:	45 g/L
Upper and lower flammability/explosive limits	Not available	Other:	None known



SAFETY DATA SHEET (SDS)

SECTION 10. STABILITY AND REACTIVITY

Reactivity: This product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical Stability: This product is stable under normal conditions.
Possibility of hazardous reactions: This product will polymerize if mixed with an amine. Considerable heat can evolve.
Conditions to Avoid: Avoid temperatures exceeding the flash point. Avoid unintended contact with amines.
Incompatible materials: Strong oxidizers, strong alkalis, strong mineral acids, amines.
Hazardous decomposition products: Unknown.

SECTION 11. TOXICOLOGICAL INFORMATION

Likely routes of exposure (inhalation, ingestion, skin and eye contact):
May be harmful if swallowed. May cause skin irritation. May cause an allergic skin reaction. May cause eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics:
High airborne concentrations of vapors may cause irritation of the respiratory tract and mucous membranes. Symptoms may include stinging, itching, tearing, redness, swelling, and blurred vision.

Delayed and immediate effects (chronic effects from short-term and long-term exposure):

Skin Sensitization – Sensitization after skin contact possible; **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.

Numerical measures of toxicity (ATE; LD₅₀ & LC₅₀):
CAS 25085-99-8 LD₅₀, Oral - Rat >15000 mg/kg
LD₅₀, Dermal - Rabbit 23000 mg/kg
CAS 68609-97-2 LD₅₀, Oral - Rat 17100 mg/kg
LD₅₀, Dermal - Rabbit >4.5 mL/kg
CAS 100-51-6 LD₅₀, Oral - Rat 1360 mg/kg

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity (aquatic and terrestrial information):
Hazardous to the aquatic environment

Product	Species	Result
CAS 25085-99-8	LC ₅₀ Oncorhynchus mykiss (rainbow trout)	2 mg/l -96 h
	EC ₅₀ Daphnia magna (Water flea)	1.8 mg/l - 48 h
CAS 68609-97-2	LC ₅₀ Fish	> 1800 mg/l - 96 h
	LC ₅₀ Fish	> 5000 mg/l - 96 h
	EC ₅₀ Invertebrates	6.07-7.2 mg/l - 48 h
CAS 100-51-6	LC ₅₀ Pimephales promelas (fathead minnow)	460 mg/l - 96 h
	LC ₅₀ Lepomis macrochirus (bluegill)	10 mg/l - 96 h
	LC ₅₀ Menidia peninsulae (silverside minnow)	32 mg/l - 96 h

Persistence and degradability: Not enough data available.
Bioaccumulative potential: Bioconcentration potential is moderate.
Mobility in soil: Low potential for mobility in soil.
Other adverse effects: No data available.

SECTION 13. DISPOSAL CONSIDERATIONS

Information on safe handling for disposal/methods of disposal/contaminated packaging: Dispose of contents/container into safe container in accordance with local, regional or national regulations.



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SECTION 14. TRANSPORT INFORMATION

UN Number; Proper shipping name; Class(es); Packing group (PG) of the TDG Regulations:

UN3082; ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol-A-(epichlorhydrin) epoxy resin); CLASS 9; PG III

UN Number; Proper shipping name; Class(es); Packing group (PG) of the IMDG (maritime):

UN3082; ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol-A-(epichlorhydrin) epoxy resin); CLASS 9; PG III

UN Number; Proper shipping name; Class(es); Packing group (PG) of the IATA (air):

UN3082; ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol-A-(epichlorhydrin) epoxy resin); CLASS 9; PG III

Special Precautions (transport/conveyance): May also be shipped as a LIMITED QUANTITY in accordance with TDG.

Environmental hazards (IMDG or other): Marine Pollutant

Bulk transport (usually more than 450L in capacity): Possible

SECTION 15. REGULATORY INFORMATION

Safety/health Canadian regulations specifics: Refer to section 2 for the appropriate classification. This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR).

Environmental Canadian regulations specifics: Refer to section 3 for ingredient(s) of the DSL.

Safety/health/environmental outside regulations specifics: None

SECTION 16. OTHER INFORMATION

Date of latest revision of the safety data sheet:

May 9, 2016

Disclaimer:

NOTICE TO READER:

TO/GO expressly disclaims all express or implied warranties of merchantability and fitness for a particular purpose, with respect to the product or information provided herein, and shall under no circumstances be liable for incidental or consequential damages. All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources. While the information is believed to be accurate, TO/GO makes no representations as to its accuracy or sufficiency. Conditions of use are beyond TO/GO control and therefore users are responsible to verify this data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product, or from the publication or use of, or reliance upon, information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process.

END OF S.D.S.



PRODUCT IDENTIFIER – COMP. B – 100% SOLIDS EPOXY
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SAFETY DATA SHEET (SDS)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Component B | 100% solids Epoxy
Other means of identification: None
Recommended use: Epoxy Hardener
Manufactured by: CTM Adhesives Inc.
8320 Grenache Street
Montreal, QC H1J 1C5
CANADA
E-mail Address : www.ctmadhesives.com
Prepared by: The Health, Safety and Environmental Department of CTM Adhesives
Telephone number of preparer: 514-321-5540
Fax number: 514-321-5570

Emergency Telephone Number:

24-Hour Emergency Telephone Number Canada (CANUTEC) : (613) 996-6666

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification of hazardous product

Acute Toxicity, Oral (Category 4)
Skin Sensitization (Category 1A)
Skin Corrosion/irritation (Category 1B)
Serious eye damage/irritation (Category 1)
Reproductive toxicity (Category 2)
Hazardous to the aquatic environment - acute (Category 1)
Hazardous to the aquatic environment - chronic (Category 1)

GHS Label Elements: Hazard Pictograms/symbols



Signal Word: DANGER

Hazard and Precautionary Statements:

H302 Harmful if swallowed

H317 May cause an allergic skin reaction

H314 Causes severe skin burns and eye damage

H318 Causes serious eye damage

H361 Suspected of damaging fertility or the unborn child

H400 Very toxic to aquatic life

H410 Very toxic to aquatic life with long lasting effects

P201 Obtain special instructions before use. **P202** Do not handle until all safety precautions have been read and understood. **P260** Do not breathe dust or mist. **P280** Wear protective gloves/protective clothing/eye protection/face protection. **P272** Contaminated work clothing should not be allowed out of the workplace. **P270** Do not eat, drink or smoke when using this product. **P264** Wash with plenty of water and soap thoroughly after handling. **P308 + P313** IF exposed or concerned: Get medical advice/attention. **P305 + P351 + P338 IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. **P310** Immediately call a POISON CENTER or doctor/physician. **P303 + P361 + P353 IF ON SKIN (or hair):** Take off immediately all contaminated clothing. Rinse skin with water [shower]. **P310** Immediately call a POISON CENTER or doctor/physician. **P363** Wash contaminated clothing before reuse. **P304 + P340 IF INHALED:** Remove person to fresh air and keep comfortable for breathing. **P301 + P330 + P331 IF SWALLOWED:** Rinse mouth. Do NOT induce vomiting. **P312** Call a POISON CENTER/doctor if you feel unwell. **P362 + P364** Take off contaminated clothing and wash before reuse. **P273** Avoid release to the environment. **P405** Store locked up. **P501** Dispose of contents/container into safe container in accordance with local, regional or national regulations.

Other Hazards Known: None known

GHS Special Labeling: EUH205 - "Contains epoxy constituents. May produce a skin allergy."



SAFETY DATA SHEET (SDS)

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Concentration (%)</u>
epoxy adduct	Proprietary	10 - 30 %
isophorone diamine	2855-13-2	10 - 30 %
benzyl alcohol	100-51-6	1 - 10 %
4-nonylphenol, branched	84852-15-3	10 - 30 %
polyoxypropylene diamine	9046-10-0	20 - 40 %

SECTION 4. FIRST AID MEASURES

<u>Inhalation</u>	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
<u>Ingestion</u>	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
<u>Skin Contact</u>	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
<u>Eye Contact</u>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

Most important symptoms and effects (acute and delayed)

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.

Indication of any immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. 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

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure the 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.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media: In case of fire: Water fog. 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 hazardous product: During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for fire-fighting: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep upwind. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapour. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillage cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Large spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent product from entering drains. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material. 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.



SAFETY DATA SHEET (SDS)

Environmental Precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust or mist. Do not get in eyes, on skin, or on clothing. Do not get this material in contact with eyes. DO not taste or swallow. When using, do not eat, drink or smoke. Provide adequate ventilation. Should be handled in closed systems, if possible. Pregnant or breastfeeding women must not handle this product. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in original tightly closed container. Keep container tightly closed. Store away from incompatible materials (see Section 10 of the SDS).

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters (biological limit values or exposure limit values and source of those values)

Exposure limits:

CAS Proprietary	No exposure limits noted for the ingredient(s)
CAS 2855-13-2	No exposure limits noted for the ingredient(s)
CAS 100-51-6	No exposure limits noted for the ingredient(s)
CAS 84852-15-3	No exposure limits noted for the ingredient(s)
CAS 9046-10-0	No exposure limits noted for the ingredient(s)

Engineering Controls

Provide good local exhaust ventilation to control vapour/mist. Eye wash facilities and emergency showers must be available when handling this product.

Personal Protective Equipment

Wear a NIOSH-certified (or equivalent) organic vapor/particulate respirator. Wear appropriate chemical resistant protective gloves. Wear tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists. Wear appropriate protective clothing. When using, do not eat, drink or smoke. 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. Eyewash fountains and safety showers are recommended in the work area.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State/ Appearance/ Color:	Transparent liquid, Clear	Vapour Pressure:	Not available
Odour:	Slight amine odour	Vapour Density:	Not available
Odour threshold:	Not available	Relative Density:	0.956 (g/ml)
pH:	Not available	Solubility:	Partial
Melting/freezing point:	Not available	Partition coefficient-n-octanol/water:	Not available
Initial boiling point/range:	Not available	Auto-ignition temperature:	Not available
Flash point (closed cup):	> 93 °C	Decomposition temperature:	Not available
Evaporation rate:	Not available	Viscosity:	200-400 cps
Flammability (solids and gases):	Not available	VOC:	224 g/L
Upper and lower flammability/explosive limits	Not available	Other:	None known



SAFETY DATA SHEET (SDS)

SECTION 10. STABILITY AND REACTIVITY

Reactivity: This product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical Stability: This product is stable under normal conditions.
Possibility of hazardous reactions: This product will polymerize if mixed with an epoxy resin. Considerable heat can evolve.
Conditions to Avoid: Avoid temperatures exceeding the flash point. Epoxy resins under uncontrolled conditions.
Incompatible materials: Strong oxidizing agents and acids.
Hazardous decomposition products: Unknown.

SECTION 11. TOXICOLOGICAL INFORMATION

Likely routes of exposure (inhalation, ingestion, skin and eye contact):
May be harmful if inhaled. Harmful if swallowed. May be harmful in contact with skin. May cause an allergic skin reaction. Causes severe skin burns. Causes serious eye damage.

Symptoms related to the physical, chemical and toxicological characteristics:
Contains ingredients which are extremely destructive to tissues of the mucous membranes and upper respiratory tract, eyes, and skin. Burning pain and severe corrosive skin damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Coughing, shortness of breath, headaches, and nausea.

Delayed and immediate effects (chronic effects from short- term and long-term exposure):

Skin Sensitization – Sensitization after skin contact possible; **Respiratory Sensitization** – No data available; **Germ Cell Mutagenicity** – No data available; **Carcinogenicity** – No ingredient listed by IARC, ACGIH, NTP or OSHA **Reproductive Toxicity** – Suspected of damaging fertility or the unborn child; **Specific Target Organ Toxicity** — **Single Exposure** – No data available; **Specific Target Organ Toxicity - Repeated Exposure** – No data available; **Aspiration Hazard** – Possible; **Health Hazards Not Otherwise Classified** – No data available.

Numerical measures of toxicity (ATE; LD₅₀ & LC₅₀):

CAS Proprietary No data available
CAS 2855-13-2 LD₅₀, Oral - Rat 1030 mg/kg
CAS 100-51-6 LD₅₀, Oral - Rat 1360 mg/kg
CAS 84852-15-3 LD₅₀, Oral - Rat - 1300 mg/kg
LD₅₀, Dermal- Rabbit - 3160 mg/kg
CAS 9046-10-0 LD₅₀, Oral - Rat - 2885.3 mg/kg
LD₅₀, Inhalation - Rat - 8h > 0.74 mg/l
LD₅₀, Dermal- Rabbit - 2980 mg/kg

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity (aquatic and terrestrial information):

Very toxic to aquatic life with long lasting effects.

Product	Species	Result
CAS Proprietary	No data available	No data available
CAS 2855-13-2	LC ₅₀ Leuciscus idus (ide)	110 mg/l - 96 h
	EC ₅₀ Daphnia magna	23 mg/l - 48 h
	EC ₅₀ Chaetogammarus marinus	388 mg/l - 48 h
CAS 100-51-6	LC ₅₀ Pimephales promelas (fathead minnow)	460 mg/l - 96 h
	LC ₅₀ Lepomis macrochirus (bluegill)	10 mg/l - 96 h
	LC ₅₀ Menidia peninsulae (silverside minnow)	32 mg/l - 96 h
CAS 84852-15-3	LC ₅₀ Lepomis macrochirus (bluegill)	0.1351 mg/l - 96 h
	LC ₅₀ Pimephales promelas (fathead minnow)	0.1383 mg/l - 96 h
	LC ₅₀ Pleuronectes americanus (winter flounder)	0.017 mg/l - 96 h
CAS 9046-10-0	EC ₅₀ Mulinia lateralis (Clam)	0.0379 mg/l - 48 h
	LC ₅₀ Oncorhynchus mykiss (rainbow trout)	15 mg/l - 96 h
	EC ₅₀ Daphnia	80 mg/l - 48 h

Persistence and degradability: Not readily biodegradable.

Bioaccumulative potential: No data available.

Mobility in soil: Adsorption to solid soil phase is possible for some ingredients but not enough data is available for the mixture.

Other adverse effects: No data available.



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SECTION 13. DISPOSAL CONSIDERATIONS

Information on safe handling for disposal/methods of disposal/contaminated packaging: Dispose of contents/container into safe container in accordance with local, regional or national regulations.

SECTION 14. TRANSPORT INFORMATION

UN Number; Proper shipping name; Class(es); Packing group (PG) of the TDG Regulations:

UN3267; CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (isophorone diamine, 4-nonylphenol, branched); CLASS 8; PG III

UN Number; Proper shipping name; Class(es); Packing group (PG) of the IMDG (maritime):

UN3267; CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (isophorone diamine, 4-nonylphenol, branched); CLASS 8; PG III

UN Number; Proper shipping name; Class(es); Packing group (PG) of the IATA (air):

UN3267; CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (isophorone diamine, 4-nonylphenol, branched); CLASS 8; PG III

Special Precautions (transport/conveyance): None

Environmental hazards (IMDG or other): Marine Pollutant

Bulk transport (usually more than 450L in capacity): Possible.

SECTION 15. REGULATORY INFORMATION

Safety/health Canadian regulations specifics: Refer to section 2 for the appropriate classification. This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR).

Environmental Canadian regulations specifics: Refer to section 3 for ingredient(s) of the DSL.

Safety/health/environmental outside regulations specifics: None

SECTION 16. OTHER INFORMATION

Date of latest revision of the safety data sheet:

May 9, 2016

Disclaimer:

NOTICE TO READER:

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END OF S.D.S.