

Safety Data Sheet

Krystal Resin | 8 oz (250 ml) | Premium Quality Clear Epoxy Resin Kit | Non-Toxic, Low Odor | High Gloss Thick Clear Coat | For Table Tops, Bar Tops Counter Tops and Artworks | Excellent Color Stability | 100% Solid

according to OSHA HazCom 2012

Date of issue: 23-January-2021 Revision date: 23-January-2021 Version: 1.0



KIT SDS: KIT Product Details

Amazon Product Name: Krystal Resin | 8 oz (250 ml) | Premium Quality Clear Epoxy Resin Kit | Non-Toxic, Low Odor | High Gloss Thick Clear Coat | For Table Tops, Bar Tops, Counter Tops and Artworks | Excellent Color Stability | 100% Solid

Kit Product Details:

Items Name: Clear Krystal Epoxy Resin KIT
Product Application: Epoxy Coating for Artwork, Countertops and Tabletops
Product Type: KIT Product

Kit Component List:

Part No.	Component Name	Quantity
1	Epoxy Resin	4 Oz
2	Hardener	4 Oz

*SDS enclosed below

Manufacturer/ Supplier/Seller:

Name: Krystal Resin
Address: Unit 208- 4548 Dufferin St, Toronto, Ontario, Canada
Website: www.krystalresin.com
Email: info@krystalresin.com
Tel: +1 416-876-1606

1.4 Emergency telephone number:

Emergency telephone number: +1 416-876-1606 (Business hours)

SDS for Part 1: Epoxy Resin

Section 1 - Product and Company Identification

1.1 Product identifier

Product Name: Epoxy Resin

Product Details:

Product Form: Substance
Physical State: Liquid
Other Name of Identification: Resin, Klear Kote, Clear Epoxy Resin

1.2 Recommended use and restrictions on use

Relevant uses: Epoxy Coating for Artwork, Countertops and Tabletops
Uses advised against: External use only

1.3 Details of the supplier of the safety data sheet

Manufacturer/ Supplier/Seller:

Name: Krystal Resin
Address: Unit 208- 4548 Dufferin St, Toronto, Ontario, Canada
Website: www.krystalresin.com

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Email: info@krystalresin.com

Tel: +1 416-876-1606

1.4 Emergency telephone number:

Emergency telephone number: +1 416-876-1606 (Business hours)

Section 2 - Hazards Identification

2.1. Classification of the substance or mixture

Classification according to GHS

Skin irritation, Category 2	H315
Serious eye irritation, Category 2	H319
Skin sensitisation, Category 1	H317
Hazardous to the aquatic environment — Chronic Hazard, Category 3	H412

2.2. Label elements

Labelling according to GHS

Hazard pictograms:



Signal word : **Warning**

Hazardous ingredients: refer SDS section 3

Hazard statements:

H315 Causes skin irritation
H317 May cause an allergic skin reaction
H319 Causes serious eye irritation
H412 Harmful to aquatic life with long lasting effects

Precautionary statements:

P102 Keep out of reach of children.
P103 Read label before use.
P202 Do not handle until all safety precautions have been read and understood.
P261 Avoid breathing gas/mist/vapours..
P262 Do not get in eyes, on skin, or on clothing.
P264 Wash face, hands and any exposed skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor/physician.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P402 + P404 Store in a dry place. Store in a closed container.
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents/container to an approved landfill/ incineration plant/waste disposal plant.

2.3 Hazards not otherwise classified (HNOC)

None identified

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Section 3 - Composition / Information on Ingredients

3.1. Substances: Not applicable

3.2. Mixtures:

Name	Product identifier (CAS#)	Percent (%)	GHS Classification
Bisphenol A epichlorohydrin polymer	25068-38-6	100	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412

* Full text of Hazard Statements: see section 16

Section 4 - First Aid Measures

4.1. Description of first aid measures

First-aid General:

Show this safety data sheet to the doctor in attendance. Get medical advice/attention if required.

First-aid after inhalation:

Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.

First-aid after skin contact:

Wash skin with plenty of water. Soap may be used. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.

First-aid after eye contact:

Immediately flush eyes with water; remove contact lenses, if present, after the first 5 minutes, then continue flushing eyes for at least 15 minutes. Get medical advice/attention.

First-aid after swallowing:

If swallowed, rinse mouth with water. Call a poison control center or doctor immediately for treatment. Do not induce vomiting. Never give anything by mouth to an unconscious person.

4.2. Most important symptoms and effects:

Symptoms/effects after inhalation:

Spray/mists may cause respiratory tract irritation.

Symptoms/effects after skin contact:

Causes skin irritation. Repeated exposure may cause skin dryness or cracking, but not classified irritant

Symptoms/effects after eye contact:

May cause eye irritation.

Symptoms/effects after ingestion:

Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

4.3. Immediate medical attention and special treatment if needed

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Section 5 - Fire Fighting Measures

5.1. Extinguishing media

Suitable extinguishing media:

Water Spray: Yes | Foam: Yes | Halon: Yes | Carbon Dioxide: Yes | Dry Chemical: Yes

Unsuitable extinguishing media: Do not use water jet to extinguish in case of large fire.

5.2. Specific hazards developing from the chemical

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Thermal decomposition/combustion can lead to release of irritating or toxic gases/ vapours– carbon monoxide (CO), carbon dioxide (CO₂), unburned hydrocarbons (smoke), and other toxic gases.

Flammability: Nonflammable

5.3. Special protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Fire-fighting equipment/instructions:

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Move containers from fire area if you can do so without risk. No action shall be taken involving any personal risk or without suitable training.

Precautions for firefighters:

Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus (SCBA). Complete protective clothing. If protective equipment is not available or not used, fight fire from a protected location or safe distance.

Section 6 - Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

General: Do not touch or walk-through spilled material. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas Put on appropriate personal protective equipment. Keep unprotected persons away. Keep away from heat/sparks/open flames/hot surfaces-No smoking. Protect from slipping if on floor.

For non-emergency personnel:

If accidentally spill on floor occur protect from slipping. Mount respiratory protective device. Keep unprotected persons away. Put on appropriate personal protective equipment.

For emergency responders:

Evacuate unnecessary personnel. See also the information in "For nonemergency personnel". See protective measures under Section 7 and 8.

6.2. Environmental precautions

Avoid release to the environment. Do not discharge into lakes, streams, ponds, or public waters.

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent material, e.g., sand, earth, diatomaceous earth, vermiculite) and Clean contaminated surfaces with a soap solution. Take collected spill to manufacturer/ competent authority and place in containers(s) for disposal according to local/state/national regulations.

Small Spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-soluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large Spill: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows.

6.4. Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Section 7 - Handling and Storage

7.1. Precautions for safe handling

Protective measures:

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Avoid contact with skin and eyes. Read and follow manufacturer's recommendations. Use personal protective equipment as required (see section 8). Handle all packages and containers carefully to minimize spills. Avoid the formation of vapors and mists. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Keep container tightly closed when not in use.

Advice on general occupational hygiene:

Do not eat, drink and smoke where this material is handled, stored, and processed. User should wash hands and face before eating, drinking and smoking. Keep away from food, drink and animal feeding dishes. Take off contaminated clothing. Wash contaminated clothing before reuse. Keep container closed when not in use.

7.2. Conditions for safe storage, including any incompatibilities

Store in a well-ventilated and dry place at room temperature. Keep away from acids, base, oxidizing and reducing agent and ignition sources. Keep away from food, drink and animal feeding dishes. Keep only in the original container. KEEP OUT OF REACH OF CHILDREN. Keep container closed when not in use.

7.3 Specific end use(s)

Use as directed

Section 8 - Exposure Controls / Personal Protection

8.1. Control parameters:

Occupational exposure limits: No Data Available
Biological exposure Indices (BEI): No Data Available

8.2 Exposure controls

Appropriate engineering controls:

Ensure exposure is below occupational exposure limits (where available). Use personal protective equipment to control the exposure (see section 8). Wash hands before breaks and at the end of workday.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Hand protection recommended while handling product.

Eye/face protection:

Eye and face protection recommended while handling product.

Skin and body protection:

Skin protection recommended at workplace while handling product

Respiratory protection:

Respiratory protection recommended at workplace while handling product.

Personal protective equipment symbol(s):



Environmental exposure controls:

Prevent product from entering drains.
Collect spillage.

Section 9 - Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	:	Clear Liquid
Physical state	:	Liquid
Colour	:	Clear
Odour	:	mild odour
Molecular mass:	:	< 700 g/mol
pH	:	No Data Available

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pH solution	:	No Data Available
Relative evaporation rate (ether=1)	:	No Data Available
Melting point	:	-16 °C
Freezing point	:	No Data Available
Boiling point	:	>200 °C
Flash point	:	264-268 °C (Closed cup)
Auto-ignition temperature	:	No Data Available
Decomposition temperature	:	320 °C
Vapor pressure	:	No Data Available
Relative density	:	1.16 (25 °C)
Density	:	No Data Available
Solubility	:	Soluble with water
Viscosity, kinematic	:	>= 10120 mPa.s (25 °C)
Explosive properties:	:	No Explosion Hazard
Lower explosive limit (LEL)	:	Not Applicable
Upper explosive limit (UEL)	:	Not Applicable
Flammability	:	Non Flammable

9.2 Other information

VOC content	:	0 %
Volatility	:	Slightly volatile

Section 10 - Stability and Reactivity

10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose.

10.4 Conditions to avoid

Heat, flames and sparks, high temperature and direct sunlight.

10.5 Incompatible materials

Strong acids, bases, oxidizing and reducing agents.

10.6 Hazardous decomposition products

Thermal decomposition can lead to release of irritating or toxic gases/ vapours– carbon monoxide (CO), carbon dioxide (CO₂), unburned hydrocarbons (smoke), Nitrogen oxides and Sulphur Oxides.

Section 11 - Toxicological Information

11.1. Information on toxicological effects

Acute toxicity (oral): Not classified.

Acute toxicity (dermal): Not classified.

Acute toxicity (inhalation): Not classified.

Toxicology data for the components/mixture: No Data Available

Skin corrosion/irritation: Causes skin irritation

Serious eye damage/irritation: Causes serious eye irritation

Respiratory or skin sensitization: May cause an allergic skin reaction

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Germ cell mutagenicity: Not classified.

Carcinogenicity: Not classified.

Reproductive toxicity: Not classified.

STOT-single exposure: Not classified.

STOT-repeated exposure: Not classified.

Aspiration hazard: Not classified.

Section 12 - Ecological Information

12.1 Toxicity

Acute aquatic toxicity: Not classified.

Chronic aquatic toxicity: Harmful to aquatic life with long lasting effects

Ecotoxicity data for the components/mixture

No Data Available

12.2 Persistence and degradability

No Data Available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

No data available

Section 13 - Disposal Considerations

13.1. Waste treatment methods

Disposal should be in accordance with applicable regional, national and local laws and regulations. Avoid disposing into drainage systems and into the environment. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Contaminated packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Section 14 - Transport Information

14.1 UN number:

The Product is not regulated as a dangerous goods for transportation.

14.2 UN proper shipping name:

The Product is not regulated as a dangerous goods for transportation.

14.3 Transport hazard class(es):

The Product is not regulated as a dangerous goods for transportation.

14.4 Packaging group:

The Product is not regulated as a dangerous goods for transportation.

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14.5 Environmental hazards:

The Product is not regulated as a dangerous goods for transportation.

14.6 Special precautions for user:

The product is not regulated as dangerous goods according to regulation DOT, IMDG, IATA and ADR/RID

Section 15 - Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

WHMIS classification for product:

Refer section 2 details

SARA 311/312 Hazard Categories

Physical Hazard	Health Hazard
Refer section 2	Refer section 2

California Proposition 65 components:

This product is not known to contain any Proposition 65 chemicals at or above threshold limit.

15.2 Chemical safety assessment

No chemical safety assessment has been carried out for this mixture.

Section 16 - Other Information

Full text of H- and EUH-statements:

H315 Causes skin irritation
H317 May cause an allergic skin reaction
H319 Causes serious eye irritation
H412 Harmful to aquatic life with long lasting effects

Abbreviations and acronyms:

ADR European agreement concerning the international carriage of dangerous goods by road
BCF Bioconcentration Factor
CAS Chemical Abstracts Service
CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
DNEL Derived no-effect level
EC Identification code for each substance listed in EINECS
EC50 Concentration of a substance when it is affected 50% of the population
EINECS European Inventory of Existing Commercial Chemical Substances
EmS Emergency plan
EU European Union
IATA International Air Transport Association
IBC International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO International Civil Aviation Organization
IMDG International Maritime Dangerous Goods
INCI International Nomenclature of Cosmetic Ingredients
ISO International Organization for Standardization
IUPAC International Union of Pure and Applied Chemistry
LC50 Lethal concentration, 50 percent
LD50 Lethal dose, 50 percent
IC50 Concentration causing 50% blockade
LOAEC Lowest observed adverse effect concentration
LOAEL Lowest observed adverse effect level
NOAEC No observed adverse effect concentration
NOAEL No observed adverse effect level
NOEC No observed effect concentration
NOEL No observed effect level
OEL Occupational Exposure Limits
PNEC Predicted no-effect concentration
PBT Persistent, Bioaccumulative and Toxic
vPvB Very Persistent and very Bioaccumulative

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ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	United Nations; Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
WGK	Water Hazard Class
CWA	Clean Air Act
SARA	Superfund Amendments and Reauthorization Act
CAA	Clean Air Act
STOT RE	Specific Target Organ Toxicity - Repeated Exposure
STOT SE	Specific Target Organ Toxicity - Single Exposure
log Kow	Octanol-water partition coefficient

Statement:

The information in this safety data sheet is to the best of our current knowledge true and accurate. It does not represent any guarantee of the properties, data, instructions, recommendations and/or suggestions of the product.

The Employer and User should make their own responsibility for investigations to determine the suitability of the information for their particular purposes. The Company and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

MSDS Creation Date: 23-January-2021

SDS for Part 2: Hardener

Section 1 - Product and Company Identification

1.1 Product identifier

Product Name: Hardener

Product Details:

Product Form: Mixture

Physical State: Liquid

Other Name of Identification: Not available

1.2 Recommended use and restrictions on use

Relevant uses Epoxy Coating for Artwork, Countertops and Tabletops

Uses advised against: External use only

1.4 Details of the supplier of the safety data sheet

Manufacturer/ Supplier/Seller:

Name: Krystal Resin

Address: Unit 208- 4548 Dufferin St, Toronto, Ontario, Canada

Website: www.krystalresin.com

Email: info@krystalresin.com

Tel: +1 416-876-1606

1.4 Emergency telephone number:

Emergency telephone number: +1 416-876-1606 (Business hours)

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Section 2 - Hazards Identification

2.1. Classification of the substance or mixture

Classification according to GHS

Acute toxicity (oral), Category 4	H302
Skin corrosion/irritation, Category 1	H314
Serious eye damage, Category 1	H318
Reproductive toxicity, Category 2	H361fd
Hazardous to the aquatic environment — Acute Hazard, Category 1	H400
Hazardous to the aquatic environment — Chronic Hazard, Category 1	H410

2.2. Label elements

Labelling according to GHS

Hazard pictograms:



GHS05



GHS08



GHS08



GHS09

Signal word : **Danger**

Hazardous ingredients: refer SDS section 3

Hazard statements:

H302-Harmful if swallowed
H314-Causes severe skin burns and eye damage
H318-Causes serious eye damage
H361fd-suspected of damaging fertility. Suspected of damaging the unborn child.
H400-Very toxic to aquatic life
H410-Very toxic to aquatic life with long lasting effects

Precautionary statements:

P102 Keep out of reach of children.
P103 Read label before use.
P202 Do not handle until all safety precautions have been read and understood.
P261 Avoid breathing mist/vapours..
P262 Do not get in eyes, on skin, or on clothing.
P264 Wash face, hands and any exposed skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves/ eye protection/ face protection.
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor/physician.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/ physician.
P402 + P404 Store in a dry place. Store in a closed container.
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents/container to an approved landfill/ incineration plant/waste disposal plant.

2.3 Hazards not otherwise classified (HNOC)

None identified.

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Section 3 - Composition / Information on Ingredients

3.1. Substances: Not applicable

3.2. Mixtures:

Name	Product identifier (CAS#)	Percent (%)	GHS Classification
Nonylphenol	25154-52-3	56-66	Acute Tox. 4, H302 Skin Corr. 1B, H314 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Repr. 2, H361fd
Polyoxypropyleneamine	9046-10-0	34-44	Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412
N-Aminoethylpiperazine	140-31-8	01-06	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Chronic 3, H412

* Full text of Hazard Statements: see section 16

Section 4 - First Aid Measures

4.1. Description of first aid measures

First-aid General:

Show this safety data sheet to the doctor in attendance. Get medical advice/attention if required.

First-aid after inhalation:

Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.

First-aid after skin contact:

Wash skin with plenty of water. Soap may be used. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.

First-aid after eye contact:

Immediately flush eyes with water; remove contact lenses, if present, after the first 5 minutes, then continue flushing eyes for at least 15 minutes. Get medical advice/attention.

First-aid after swallowing:

If swallowed, rinse mouth with water. Call a poison control center or doctor immediately for treatment. Do not induce vomiting. Never give anything by mouth to an unconscious person.

4.2. Most important symptoms and effects:

Symptoms/effects after inhalation:

Spray/mists may cause respiratory tract irritation.

Symptoms/effects after skin contact:

Causes severe skin burns and eye damage. Repeated exposure may cause skin dryness or cracking, but not classified irritant

Symptoms/effects after eye contact:

Causes serious eye damage

Symptoms/effects after ingestion:

Toxic if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

4.3. Immediate medical attention and special treatment if needed

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

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Section 5 - Fire Fighting Measures

5.1. Extinguishing media

Suitable extinguishing media:

Water Spray: Yes | Foam: Yes | Halon: Yes | Carbon Dioxide: Yes | Dry Chemical: Yes

Unsuitable extinguishing media: Do not use water jet to extinguish in case of large fire.

5.2. Specific hazards developing from the chemical

Thermal decomposition/combustion can lead to release of irritating or toxic gases/ vapours– carbon monoxide (CO), carbon dioxide (CO₂), unburned hydrocarbons (smoke), and other toxic gases.

Flammability: Nonflammable

5.3. Special protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Fire-fighting equipment/instructions:

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Move containers from fire area if you can do so without risk. No action shall be taken involving any personal risk or without suitable training.

Precautions for firefighters:

Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus (SCBA). Complete protective clothing. If protective equipment is not available or not used, fight fire from a protected location or safe distance.

Section 6 - Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

General: Do not touch or walk-through spilled material. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas Put on appropriate personal protective equipment. Keep unprotected persons away. Keep away from heat/sparks/open flames/hot surfaces-No smoking. Protect from slipping if on floor.

For non-emergency personnel:

If accidentally spill on floor occur protect from slipping. Mount respiratory protective device. Keep unprotected persons away. Put on appropriate personal protective equipment.

For emergency responders:

Evacuate unnecessary personnel. See also the information in "For nonemergency personnel". See protective measures under Section 7 and 8.

6.2. Environmental precautions

Avoid release to the environment. Do not discharge into lakes, streams, ponds, or public waters.

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent material, e.g., sand, earth, diatomaceous earth, vermiculite) and Clean contaminated surfaces with a soap solution. Take collected spill to manufacturer/ competent authority and place in containers(s) for disposal according to local/state/national regulations.

Small Spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-soluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large Spill: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows.

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6.4. Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Section 7 - Handling and Storage

7.1. Precautions for safe handling

Protective measures:

Avoid contact with skin and eyes. Read and follow manufacturer's recommendations. Use personal protective equipment as required (see section 8). Handle all packages and containers carefully to minimize spills. Avoid the formation of vapors and mists. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Keep container tightly closed when not in use.

Advice on general occupational hygiene:

Do not eat, drink and smoke where this material is handled, stored, and processed. User should wash hands and face before eating, drinking and smoking. Keep away from food, drink and animal feeding dishes. Take off contaminated clothing. Wash contaminated clothing before reuse. Keep container closed when not in use.

7.2. Conditions for safe storage, including any incompatibilities

Store in a well-ventilated and dry place at room temperature. Keep away from acids, base, oxidizing and reducing agent and ignition sources. Keep away from food, drink and animal feeding dishes. Keep only in the original container. KEEP OUT OF REACH OF CHILDREN. Keep container closed when not in use.

7.3 Specific end use(s)

Use as directed

Section 8 - Exposure Controls / Personal Protection

8.1. Control parameters:

Occupational exposure limits: No Data Available

Biological exposure Indices (BEI): No Data Available

8.2 Exposure controls

Appropriate engineering controls:

Ensure exposure is below occupational exposure limits (where available). Use personal protective equipment to control the exposure (see section 8). Wash hands before breaks and at the end of workday.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Hand protection recommended while handling product.

Eye/face protection:

Eye and face protection recommended while handling product.

Skin and body protection:

Skin protection recommended at workplace while handling product

Respiratory protection:

Respiratory protection recommended at workplace while handling product.

Personal protective equipment symbol(s):



Environmental exposure controls:

Prevent product from entering drains.

Collect spillage.

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Section 9 - Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	:	Pale straw liquid with amine odor
Physical state	:	Liquid
Colour	:	Pale straw color
Odour	:	amine odor
Molecular mass:	:	No Data Available
pH	:	No Data Available
pH solution	:	No Data Available
Relative evaporation rate (ether=1)	:	No Data Available
Relative vapor density (Air=1)	:	No Data Available
Melting point	:	No Data Available
Freezing point	:	No Data Available
Boiling point	:	No Data Available
Flash point	:	280 °F
Auto-ignition temperature	:	No Data Available
Decomposition temperature	:	No Data Available
Vapor pressure	:	< 1 mmHg
Relative density	:	0.968 (25 °C)
Density	:	No Data Available
Solubility	:	Soluble with water
Viscosity, kinematic	:	No Data Available
Explosive properties:	:	No Explosion Hazard
Lower explosive limit (LEL)	:	Not Applicable
Upper explosive limit (UEL)	:	Not Applicable
Flammability	:	Non Flammable

9.2 Other information

VOC content	:	No Data Available
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Section 10 - Stability and Reactivity

10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose.

10.4 Conditions to avoid

Heat, flames and sparks, high temperature and direct sunlight.

10.5 Incompatible materials

Strong acids, bases, oxidizing and reducing agents.

10.6 Hazardous decomposition products

Thermal decomposition can lead to release of irritating or toxic gases/ vapours— carbon monoxide (CO), carbon dioxide (CO₂), unburned hydrocarbons (smoke), Nitrogen oxides and Sulphur Oxides.

Section 11 - Toxicological Information

11.1. Information on toxicological effects

Acute toxicity (oral):	Harmful if swallowed
Acute toxicity (dermal):	Not classified.
Acute toxicity (inhalation):	Not classified.

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Toxicology data for the components/mixture: No Data Available

Skin corrosion/irritation:	Causes severe skin burns and eye damage
Serious eye damage/irritation:	Causes serious eye damage
Respiratory or skin sensitization:	Not classified
Germ cell mutagenicity:	Not classified.
Carcinogenicity:	Not classified.
Reproductive toxicity:	suspected of damaging fertility. Suspected of damaging the unborn child
STOT-single exposure:	Not classified.
STOT-repeated exposure:	Not classified.
Aspiration hazard:	Not classified.

Section 12 - Ecological Information

12.1 Toxicity

Acute aquatic toxicity: Very toxic to aquatic life

Chronic aquatic toxicity: Very toxic to aquatic life with long lasting effects

Ecotoxicity data for the components/mixture

No Data Available

12.2 Persistence and degradability

No Data Available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

No data available

Section 13 - Disposal Considerations

13.1. Waste treatment methods

Disposal should be in accordance with applicable regional, national and local laws and regulations. Avoid disposing into drainage systems and into the environment. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Contaminated packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Section 14 - Transport Information

14.1 UN number: UN3145

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14.2 UN proper shipping name: ALKYLPHENOLS, LIQUID, N.O.S. (nonylphenol)

14.3 Transport hazard class(es) 8

14.4 Packaging group: III

14.5 Environmental hazards: Yes

14.6 Special precautions for user: Keep away from heat, flame and ignition source



Section 15 - Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or Mixture

WHMIS classification for product:

Refer section 2 details

SARA 311/312 Hazard Categories

Physical Hazard	Health Hazard
Refer section 2	Refer section 2

California Proposition 65 components:

This product is not known to contain any Proposition 65 chemicals at or above threshold limit.

15.2 Chemical safety assessment

No chemical safety assessment has been carried out for this mixture.

Section 16 - Other Information

Full text of H- and EUH-statements:

H302-Harmful if swallowed

H314-Causes severe skin burns and eye damage

H317-May cause an allergic skin reaction

H318-Causes serious eye damage

H361fd-suspected of damaging fertility. Suspected of damaging the unborn child.

H400-Very toxic to aquatic life

H410-Very toxic to aquatic life with long lasting effects

H412-Harmful to aquatic life with long lasting effects

Abbreviations and acronyms:

ADR European agreement concerning the international carriage of dangerous goods by road

BCF Bioconcentration Factor

CAS Chemical Abstracts Service

CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures

DNEL Derived no-effect level

EC Identification code for each substance listed in EINECS

EC50 Concentration of a substance when it is affected 50% of the population

EINECS European Inventory of Existing Commercial Chemical Substances

EmS Emergency plan

EU European Union

IATA International Air Transport Association

IBC International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals

ICAO International Civil Aviation Organization

IMDG International Maritime Dangerous Goods

INCI International Nomenclature of Cosmetic Ingredients

ISO International Organization for Standardization

IUPAC International Union of Pure and Applied Chemistry

LC50 Lethal concentration, 50 percent

LD50 Lethal dose, 50 percent

IC50 Concentration causing 50% blockade

LOAEC Lowest observed adverse effect concentration

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LOAEL Lowest observed adverse effect level
NOAEC No observed adverse effect concentration
NOAEL No observed adverse effect level
NOEC No observed effect concentration
NOEL No observed effect level
OEL Occupational Exposure Limits
PNEC Predicted no-effect concentration
PBT Persistent, Bioaccumulative and Toxic
vPvB Very Persistent and very Bioaccumulative
ppm Parts per million
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals
RID Agreement on the transport of dangerous goods by rail
UN United Nations; Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB Substances of unknown or variable composition, complex reaction products or biological materials
VOC Volatile organic compounds
WGK Water Hazard Class
CWA Clean Air Act
SARA Superfund Amendments and Reauthorization Act
CAA Clean Air Act
STOT RE Specific Target Organ Toxicity - Repeated Exposure
STOT SE Specific Target Organ Toxicity - Single Exposure
log Kow Octanol-water partition coefficient

Statement:

The information in this safety data sheet is to the best of our current knowledge true and accurate. It does not represent any guarantee of the properties, data, instructions, recommendations and/or suggestions of the product.

The Employer and User should make their own responsibility for investigations to determine the suitability of the information for their particular purposes. The Company and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

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