



Chem-Screen Top Coat

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision Date: N/A

Date of Issue: 12/21/2022

Version: 1.0

SECTION 1: IDENTIFICATION

Product Identifier

Product Form: Mixture

Product Name: Chem-Screen Top Coat A

Product Code: 2031

Intended Use of the Product

Primer. For professional use only.

Name, Address, and Telephone of the Responsible Party

Manufacturer

The Garland Company, Inc.
3800 East 91st Street
Cleveland, Ohio 44105-2197
T-800-762-8225
F-216-641-0633
www.garlandco.com

Supplier

The Garland Company, Inc.
3800 East 91st Street
Cleveland, Ohio 44105-2197
T-800-762-8225
F-216-641-0633
www.garlandco.com

The Garland Company, Inc.
209 Carrier Drive
Toronto, Ontario M9W 5Y8
T-416-747-7995 ; 800-387-5991
F-416-747-1980

Emergency Telephone Number

Emergency Number: 1-800-262-8200 (CHEMTREC)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

Classification (GHS-US):

Skin irritation Cat 2
Skin sensitizer Cat 1
Serious eye irritation Cat 2A
Chronic aquatic hazard Cat 2

Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)



Signal Word (GHS-US)

: Warning

Hazard Statements (GHS-US)

: H315: Causes skin irritation
H319: Causes serious eye irritation
H317: May cause an allergic skin reaction
H411: Toxic to aquatic life with long lasting effects

Precautionary Statements (GHS-US)

: P102 Keep out of reach of children.
P103 Read label before use
P264 Wash hands thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.

Response

P302 + P352 IF ON SKIN: wash with plenty of soap and water.
P333 + P313 IF SKIN irritation or rash occurs: Get medical advice/attention.

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P362 + P364 Take off contaminated clothing and wash it before reuse.
P305 + P351 + P338 If in eyes: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 IF eye irritation persists: Get medical advice/attention.
P391 Collect spillage.
P501 Dispose of contents/container to a waste disposal facility in accordance with local, state, federal or international laws

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Component

HAZARDOUS INGREDIENTS:	CAS #	Weight %
Epoxy phenol novolac resin	28064-14-4	10-30
BISPHENOL F/EPICHLOROHYDRIN EPOXY RESIN	9003-36-5	30-60
Propylene glycol monomethyl ether	107-98-2	3-7
MODIFIED DIGLYCIDYL ETHER OF BISPHENOL A	25068-38-6	1-5
*1,2,4-Trimethylbenzene	95-63-6	0-1
Alkyl Glycidyl Ether	69609-97-2	0.1-1.0
Siloxanes and silicones, di-me reactions products with silica (non-hazardous)	67762-90-7	<0.1
siloxanes and silicones, di-methyl (non-hazardous)	63148-62-9	<0.1
Stoddard Solvent	8052-41-3	0.1-1
1-Methoxy-2-Propanol Acetate	108-65-6	0.1-1
Acetic acid, butyl ester	123-86-4	0.1-1
Colors may contain @ 7-13%		
*Carbon	1333-86-4	<1
Titanium Dioxide	13463-67-7	<1

- *Indicates toxic chemicals subject to reporting requirements of section 313 of Title III and of 40 CFR 372

Composition Comments: Exact concentrations and chemical identities of ingredients not listed above are either classified as non-hazardous or are withheld as a trade secret as covered by OSHA's Hazard Communication Standard, 29 CFR 1910.1200(i).

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

General: If you feel unwell, seek medical advice (show the label where possible).

Inhalation: Remove victim to fresh air and administer oxygen if necessary

Skin Contact: Wash skin thoroughly after handling. Seek medical attention if irritation develops and persists. Remove contaminated clothing. Launder contaminated clothing before re-use.

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Eye Contact: If product enters the eyes, open eyes while under gentle running water for at least 15 minutes. Seek medical attention if irritation develops.

Ingestion: Do not induce vomiting, keep person warm and consult an physician immediately.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Foam, alcohol foam, CO2, Dry Chemical, Water, Fog

Advice for Firefighters

Fire Fighting Procedures: Exercise caution when fighting any chemical fire.

Protection During Firefighting: Avoid breathing fire gases or vapors. Evacuate area. Keep upwind to avoid inhalation of gases, vapors, fumes and smoke. Ventilate closed spaces before entering them. Cool containers exposed to heat with water spray to disperse vapors and protect those stopping the leak. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

Special Protective Equipment for Firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Standard Firefighter's clothing includes helmets, protective boots, and gloves will provide a basic level of protection for chemical incidents.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures

Personal precautions: Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk. Do not touch or walk into spilled material. Avoid contact with skin and eyes.

Environmental precautions

Environmental precautions: Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment.

Methods and Materials for Containment and Cleaning Up

For Containment: Contain spilled material if possible. Remove all sources of ignition and ventilate the area. Absorb with materials such as: Dirt. Vermiculite. Sand.

Methods for Cleaning Up: Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Small Spillages: Collect spillage. Large Spillages: Absorb spillage with non-combustible, absorbent material. The contaminated absorbent may pose the same hazard as the spilled material. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. For waste disposal, see Section 13.

Reference to Other Sections: For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

General Handling: Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink, and animal feed. Handle all packages and containers carefully to minimize spills. Keep container tightly sealed when not in use. Avoid the formation of mists. Suspected of causing cancer. May damage fertility. May damage the unborn child. Pregnant or breastfeeding women should not work with this product if there is any risk of exposure. Avoid discharge to the aquatic environment. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.

Advice on General Occupational Hygiene: Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse.

Conditions for Safe Storage

General: Store away from incompatible materials (see Section 10). Store locked up. Keep only in the original container. Keep container tightly closed in a cool, well ventilated place. Keep containers upright. Protect containers from damage. This product polymerizes when in contact with moisture.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS/GUIDELINES:

HAZARDOUS INGREDIENTS:	CAS #	OSHA PEL	ACGIH TLV	OSHA STEL
Epoxy phenol novolac resin	28064-14-4	600 mg/m ³ (skin)	100 ppm	150 ppm
BISPHENOL F/EPICHLOROHYDRIN EPOXY RESIN	9003-36-5	200 ppm	20 ppm	300 ppm
Propylene glycol monomethyl ether	107-98-2	3.5 ppm	3.4 ppm	None
MODIFIED DIGLYCIDYL ETHER OF BISPHENOL A	25068-38-6	10 mg/m ³	10 mg/m ³	5 mg/m ³
*1,2,4-Trimethylbenzene	95-63-6	25ppm	None	None
Alkyl Glycidyl Ether	69609-97-2	None	None	None
Siloxanes and silicones, di-me reactions products with silica (non- hazardous)	67762-90-7	None	None	None
siloxanes and silicones, di-methyl (non-hazardous)	63148-62-9	None	None	None
Stoddard Solvent	8052-41-3	100 ppm	100 ppm	None
1-Methoxy-2-Propanol Acetate	108-65-6	50 ppm	None	None
Acetic acid, butyl ester	123-86-4	150 ppm	150 ppm	200 ppm
*Carbon	1333-86-4	3.5 ppm	3.4 ppm	None
Titanium Dioxide	13463-67-7	10 mg/m ³	10 mg/m ³	5 mg/m ³

Control Parameters

Occupational Exposure Limits

VENTILATION AND ENGINEERING CONTROLS: Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above. Use local exhaust ventilation to control airborne vapor. Ensure eyewash/safety shower stations are available near areas where this product is used.

RESPIRATORY PROTECTION: Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.

EYE PROTECTION: Safety glasses or chemical goggles as appropriate to prevent eye contact. If necessary, refer to U.S. OSHA 29 CFR 1910.133 or appropriate Canadian Standards.

HAND PROTECTION: Use chemical resistant gloves to prevent skin contact. If necessary, refer to U.S. OSHA 29 CFR 1910.138 or appropriate Standards of Canada.

BODY PROTECTION: Use body protection appropriate to prevent contact (e.g. lab coat, overalls). If necessary, refer to

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appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

PHYSICAL STATE:	Liquid
APPEARANCE & ODOR:	Viscous liquid
ODOR THRESHOLD (PPM):	Not Available
FLASH POINT:	Not Available
AUTOIGNITION TEMPERATURE:	Not Established
VAPOR PRESSURE (mmHg):	Not Available
VAPOR DENSITY:	Not Available
EVAPORATION RATE (nBuAc = 1):	Not Available
BOILING POINT (F°):	200-279
FREEZING POINT (C°):	Not Available
pH:	Not Available
SPECIFIC GRAVITY 20°C: (WATER =1)	1.1-1.2
SOLUBILITY IN WATER (%)	Not Available
EXPLOSIVE PROPERTIES:	Not Available
OXIDISING PROPERTIES:	Not Available

SECTION 10: STABILITY AND REACTIVITY

Reactivity: No additional information available.

Chemical Stability: Stable under recommended storage conditions. See Storage, Section 7.

Possibility of Hazardous Reactions: No potentially hazardous reactions known.

Conditions to Avoid: Avoid excessive heat or open flames as well as all sources of ignition such as sparks, heaters, and static discharges.

Incompatible Materials: Can react vigorously with strong oxidizing agents and strong acids or mineral acids

Hazardous Decomposition Products: Does not decompose when used and stored as recommended. Thermal decomposition may produce harmful gases or vapors.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects – Product

Epoxy phenol novolac resin CAS# 28064-14-4:

LD50 Oral: 4000 mg/kg (adult rat).

LD50 skin (adult rabbit) 2000 mg/kg.

Mutagenicity was negative in in-vivo genotoxicity assays. Mixed results were seen in in-vitro genotoxicity assays.

BISPHENOL F/EPICHLOROHYDRIN EPOXY RESIN CAS# 9003-36-5

Acute Oral Effects: LD50 (rat) 5000 mg/kg.

Acute Dermal Toxicity (rabbit) 3000 mg/kg.

Inhalation toxicity LC50 (rat) 1.7 mg/l air for a 4-hr aerosol exposure (maximum concentration obtained).

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CAS# 25068-38-6:

Oral LD50: 5000 mg/kg (rat).

Dermal LD50: 6000 mg/kg (rabbit)

CAS# 107-98-2:

Acute Oral Effects: LD50 (rat) 4016 mg/kg

Acute Dermal Toxicity (rabbit) >2000 mg/kg

Inhalation toxicity LC50 (rat) >25.8 mg/l (6 hour)

CAS# 68609-97-2:

Acute Oral Effects: LD50 (rat) >10000 mg/kg

Acute Dermal Toxicity (rabbit) >10000 mg/kg.

CAS# 8052-41-3:

Acute Oral Effects: LD50 >6000 mg/kg (rat).

Acute Dermal Toxicity >3000 mg/kg (rabbit).

Inhalation toxicity LC50 = 5500 mg/kg (4 hr) (rat).

CAS# 108-65-6:

Acute Oral Effects: LD50 (rat) 8532 mg/kg (rat).

Acute Dermal Toxicity (rabbit) >5000 mg/kg (rabbit).

Inhalation toxicity LC50 (rat) >100ppm (4hr) (rat)

CAS# 78-92-2

Acute Oral Effects: LD50 (rat) 6480 mg/kg (rat)

acetic acid, butyl ester CAS# 123-86-4

Acute Oral Effects: LD50 10768 mg/kg (rat) 4hr estimated.

Acute Dermal Toxicity LD50 17601 mg/kg (rabbit) 4hr estimated

Inhalation toxicity LC50 = 2000 (rat) 4hr estimated.

CAS# 95-63-6

Acute Oral Effects: LD50 (rat) 5000 mg/kg.

Inhalation toxicity LC50 (rat) 18000 mg/m³. air for a 4-hr aerosol exposure (maximum concentration obtained).

Carbon:

LD50 – Intravenous, mouse = 440 mg/kg

IARC lists carbon as a possible human carcinogen Category 2B.

Titanium Dioxide:

Inhalation 4 h LC50 > 6.82 mg/l;

Oral LD50 > 5000 mg/kg, (rat)

IARC listed titanium dioxides as possibly carcinogenic to humans Group 2B.

TOXICITY DATA: Toxicity data is not available for this product:

IRRITANCY OF PRODUCT: Contact with this product can be irritating to exposed skin, eyes, and respiratory system.

SENSITIZATION OF PRODUCT: This product is considered a skin sensitizer.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Epoxy phenol novolac resin CAS# 28064-14-4:

Freshwater Fish Toxicity - the acute LC50 is 1-10 mg/L, based on similar materials;

Freshwater Invertebrates. Toxicity - the acute EC50 is 1-10 mg/L, based on similar materials.

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CAS# 25068-38-6:

Fish toxicity: Rainbow trout (96hr) LC50 1.5mg/l, Zebra Fish (96hr) LC50 2.4 mg/l.

Acute Dermal Toxicity (rabbit) >3000 mg/kg.

Invertebrate Toxicity: Daphnia Toxicity (24hr) EC 50 3.6 mg/l

CAS# 95-63-6:

Toxicity to fish LC50 (fathead minnow) 7.72 mg/l 96 hr

CAS# 108-65-6:

Acute and prolonged Toxicity to Fish LC50: 161 mg/l (fathead minnow, 96 hrs;)

Acute toxicity to Aquatic Invertebrates EC50: 408 mg/l (water flea, 48 hrs)

Titanium Dioxide:

Pimephales promelas (fathead minnow); 1000 mg/l @ 96h LC50; Pseudokirchneriella subcapitata (green algae) 61 mg/l @ 72h EC50;

Daphnia magna (water flea); 1000 mg/l @ 48h EC50

Persistence and Degradability

No known applicable information.

Mobility in Soil

Mobility in Soil: No data available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: Waste generation should be minimized or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

Unused and Contaminated Product: Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labeled with their contents. Incineration or landfill should only be considered when recycling is not feasible.

SECTION 14: TRANSPORT INFORMATION

14.1 In Accordance with DOT

Proper Shipping Name : Not regulated

Hazard Class :

Identification Number :

Packing Group :

14.2 In Accordance with IMDG

Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID,
N.O.S. (CONTAINS Bisphenol A Diglycidyl Ether Polymer) MARINE
POLLUTANT

Hazard Class : 9

Identification Number : 3082

Packing Group : 3

14.3 In Accordance with IATA

Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID,
N.O.S. (CONTAINS Bisphenol A Diglycidyl Ether Polymer) MARINE
POLLUTANT

Hazard Class : 9

Identification Number : 3082

Packing Group : 3

SECTION 15: REGULATORY INFORMATION

US Federal Regulations

OSHA 29 CFR 1910-1200 –See section 2

TSCA – All components of this product are listed on TSCA Inventory.

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CERCLA Reportable Quantity – Not applicable

SARA Title III: Section 302 Extremely Hazardous Substances – None

Section 304 – Not applicable.

Section 311/312 – Acute health and Chronic Health

RCRA – Refer to section 13.

US State Regulations

PROP 65 – Carbon

Component data:

State Right to Know:

Component	MA	NJ	PA	IL	RI	CA	MN
Bisphenol F/epichlorohydrin epoxy resin		X	X				
CAS# 25068-38-6		X	X				
CAS# 68609-97-2			X				
CAS# 107-98-2			X				
CAS# 8052-41-3	X	X	X			X	X
CAS# 95-63-6	X	X	X				
CAS# 108-65-6	X	X	X				
CAS# 78-92-2	X		X				
acetic acid, butyl ester CAS# 123-86-4	X		X				
Titanium Dioxide		X					

SECTION 16: OTHER INFORMATION

Revision Date : 12/21/2022

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Party Responsible for the Preparation of This Document : The Garland Company, Inc.
3800 East 91st Street
Cleveland, Ohio 44105-2197
T-1800-762-8225
F-216-641-0633

This information is based on our knowledge as of the Revision Date and is intended to describe the product only for the purposes of health, safety and environmental requirements as of the Revision Date. It should not therefore be construed as guaranteeing any specific property of the product nor as providing any warranty, expressed or implied. The user assumes all responsibility, liability, risk of loss, damage, or expense arising out of, or in any way connected with, the handling, storage, use, or disposal of the product.

North America GHS US 2019 & WHMIS

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SECTION 1: IDENTIFICATION

Product Identifier

Product Form: Mixture

Product Name: Chem-Screen Top Coat Part B

Product Code: 2031

Intended Use of the Product

Primer. For professional use only.

Name, Address, and Telephone of the Responsible Party

Manufacturer

The Garland Company, Inc.
3800 East 91st Street
Cleveland, Ohio 44105-2197
T-800-762-8225
F-216-641-0633
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Supplier

The Garland Company, Inc.
3800 East 91st Street
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The Garland Company, Inc.
209 Carrier Drive
Toronto, Ontario M9W 5Y8
T-416-747-7995 ; 800-387-5991
F-416-747-1980

Emergency Telephone Number

Emergency Number: 1-800-262-8200 (CHEMTREC)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

Classification (GHS-US):

STOT RE	Cat 2
Skin corrosion	Cat 1
Skin Sensitizer	Cat 1B
Eye Damage/Irritation	Cat 1
Acute aquatic hazard	Cat 3
Chronic aquatic hazard	Cat 2

Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)



Signal Word (GHS-US)

: Danger

Hazard Statements (GHS-US)

: H314: Causes severe skin burns and eye damage
H318: Causes serious eye damage
H317: May cause an allergic skin reaction
H373: May cause damage to organs through prolonged or repeated exposure.
H402: Harmful to aquatic life
H411: Toxic to aquatic life with long lasting effects

Precautionary Statements (GHS-US)

: P102 Keep out of reach of children.
P103 Read label before use
P260 Do not breathe dust/fume/gas/mist/vapours/spray
P264 Wash hands thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.

Response;

P314 Get medical advice/attention if you feel unwell.
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower.
P363 Wash contaminated clothing before reuse.
P304 + P340 IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.
P310 Immediately call a POISON CENTER or doctor/physician.
P321 If skin irritation or burns develop, Call a doctor/physician .
P305 + P351 + P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302 + P352 IF ON SKIN: wash with plenty of soap and water.
P333 + P313 IF SKIN irritation or rash occurs: Get medical advice/attention.
P362 + P364 take off contaminated clothing and wash it before reuse.
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 If in eyes, immediately call a POISON CENTER or doctor/physician.
P391 Collect spillage.

Disposal:

P501 Dispose of contents/container to a waste disposal facility in accordance with local, state, federal or international laws.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Component

HAZARDOUS INGREDIENTS:	CAS #	Weight %
Benzyl Alcohol	100-51-6	30-60
Methylenedi(cyclohexylamine) cyclohexanamine, 4-4 methylenebis reaction products	129733-57-9	10-30
3-aminomethyl-3,5,5-trimethyl cyclohexane	2855-13-2	10-30
2-hydroxybenzoic acid	69-72-7	3-7

Composition Comments: Exact concentrations and chemical identities of ingredients not listed above are either classified as non-hazardous or are withheld as a trade secret as covered by OSHA's Hazard Communication Standard, 29 CFR 1910.1200(i).

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

General: If you feel unwell, seek medical advice (show the label where possible).

Inhalation: REMOVE VICTIM TO FRESH AIR AND ADMINISTER OXYGEN IF NECESSARY

Skin Contact: Wash skin thoroughly after handling. Seek medical attention if irritation develops and persists. Remove contaminated clothing. Launder contaminated clothing before re-use.

Eye Contact: If product enters the eyes, open eyes while under gentle running water for at least 15 minutes. Seek medical attention if irritation develops. **Ingestion:** DO NOT INDUCE VOMITING, KEEP PERSON WARM AND CONSULT A PHYSICIAN IMMEDIATELY.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Foam, alcohol foam, CO2, Dry Chemical, Water, Fog

Advice for Firefighters

Fire Fighting Procedures: Exercise caution when fighting any chemical fire.

Protection During Firefighting: Avoid breathing fire gases or vapors. Evacuate area. Keep upwind to avoid inhalation of gases, vapors, fumes and smoke. Ventilate closed spaces before entering them. Cool containers exposed to heat with water spray to disperse vapors and protect those stopping the leak. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

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Special Protective Equipment for Firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Standard Firefighter's clothing includes helmets, protective boots, and gloves will provide a basic level of protection for chemical incidents.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures

Personal precautions: Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk. Do not touch or walk into spilled material. Avoid contact with skin and eyes.

Environmental precautions

Environmental precautions: Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment.

Methods and Materials for Containment and Cleaning Up

For Containment: Contain spilled material if possible. Remove all sources of ignition and ventilate the area. Absorb with materials such as: Dirt. Vermiculite. Sand.

Methods for Cleaning Up: Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Small Spillages: Collect spillage. Large Spillages: Absorb spillage with non-combustible, absorbent material. The contaminated absorbent may pose the same hazard as the spilled material. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. For waste disposal, see Section 13.

Reference to Other Sections: For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

General Handling: Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink, and animal feeding stuffs. Handle all packages and containers carefully to minimize spills. Keep container tightly sealed when not in use. Avoid the formation of mists. Suspected of causing cancer. May damage fertility. May damage the unborn child. Pregnant or breastfeeding women should not work with this product if there is any risk of exposure. Avoid discharge to the aquatic environment. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.

Advice on General Occupational Hygiene: Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse.

Conditions for Safe Storage

General: Store away from incompatible materials (see Section 10). Store locked up. Keep only in the original container. Keep container tightly closed in a cool, well ventilated place. Keep containers upright. Protect containers from damage. This product polymerizes when in contact with moisture.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS/GUIDELINES:

HAZARDOUS INGREDIENTS:	CAS #	OSHA PEL	ACGIH TLV	OSHA STEL
Benzyl Alcohol	100-51-6	None	None	None
Methylenedi(cyclohexylamine) cyclohexanamine, 4-4 methylenebis reaction products	129733-57-9	None	None	None
3-aminomethyl-3,5,5-trimethyl cyclohexane	2855-13-2	None	None	None
2-hydroxybenzoic acid	69-72-7	None	None	None

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Control Parameters

Occupational Exposure Limits

VENTILATION AND ENGINEERING CONTROLS: Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above. Use local exhaust ventilation to control airborne vapor. Ensure eyewash/safety shower stations are available near areas where this product is used.

RESPIRATORY PROTECTION: Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.

EYE PROTECTION: Safety glasses or chemical goggles as appropriate to prevent eye contact. If necessary, refer to U.S. OSHA 29 CFR 1910.133 or appropriate Canadian Standards.

HAND PROTECTION: Use chemical resistant gloves to prevent skin contact. If necessary, refer to U.S. OSHA 29 CFR 1910.138 or appropriate Standards of Canada.

BODY PROTECTION: Use body protection appropriate to prevent contact (e.g. lab coat, overalls). If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

PHYSICAL STATE:	Liquid
APPEARANCE & ODOR:	Amber clear liquid with amine odor
ODOR THRESHOLD (PPM):	Not Available
FLASH POINT:	Not Available
AUTOIGNITION TEMPERATURE:	Not Established
VAPOR PRESSURE (mmHg):	Not Available
VAPOR DENSITY:	Not Available
EVAPORATION RATE (nBuAc = 1):	Not Available
BOILING POINT (F°):	477
FREEZING POINT (C°):	Not Available
pH:	Not Available
SPECIFIC GRAVITY 20°C: (WATER =1)	1.0
SOLUBILITY IN WATER (%)	Not Available
EXPLOSIVE PROPERTIES:	Not Available
OXIDISING PROPERTIES:	Not Available

SECTION 10: STABILITY AND REACTIVITY

Reactivity: No additional information available.

Chemical Stability: Stable under recommended storage conditions. See Storage, Section 7.

Possibility of Hazardous Reactions: No potentially hazardous reactions known.

Conditions to Avoid: Avoid excessive heat or open flames as well as all sources of ignition such as sparks, heaters, and static discharges.

Incompatible Materials: Can react vigorously with strong oxidizing agents and strong lewis acids or mineral acids

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Hazardous Decomposition Products: Does not decompose when used and stored as recommended. Thermal decomposition may produce harmful gases or vapors.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects – Product

Benzyl Alcohol

Inhalation LC50 (4hr) >4178 mg/l (rat),

Dermal LD50 2000 mg/kg (rabbit)

Rats exposed to 800 mg/kg for thirteen weeks exhibited CNS depression and histopathological changes in the brain, thymus and skeletal muscles. The No observed Adverse effect level (NOAEL) was 400 mg/kg. No evidence of carcinogenicity was seen in two year study with rats and mice.

CAS# 694-83-7:

LD50 = 2,300 mg/kg (species rat)

PHENOL, M-XYLENE DIAMINE and Benzene-1, 3-Dimethaneamine/Phenol/ Formaldehyde

Ingestion LD50 > 2200 mg/kg (rat)

Inhalation LC50 (1h) > 20mg/l (rat)

Skin LD50 > 1000 mg/kg (rabbit) all estimated

Phenol

Adsorption of phenolic solutions through the skin may be very rapid and can cause death. Lesser exposures can cause damage to the kidneys, liver, pancreas and spleen, and edema to the lungs. Chronic exposures can cause death from liver and kidney damage.

This component has a low bioaccumulation potential.

1,2-benzenedicarboxylic acid, dibutyl ester CAS# 84-74-2

Dibutyl phthalate:

ORAL (LD50): Acute: 7499 mg/kg [Rat]. 3474 mg/kg [Mouse]. 10000 mg/kg [Guinea pig].

DERMAL (LD50): Acute: >20000 mg/kg [Rabbit]. MIST (LC50): Acute: 25000 mg/m² 2 hours [Rat].

Toxicity of the Products of Biodegradation: The products of degradation are less toxic than the product itself.

TOXICITY DATA: Toxicity data is not available for this product:

IRRITANCY OF PRODUCT: Contact with this product can be irritating to exposed skin, eyes, and respiratory system.

SENSITIZATION OF PRODUCT: This product is considered a skin sensitizer.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Specific Component Data:

Benzyl Alcohol

EC50 (48hr) 400 mg/l Daphnia Magna, EC50 (72hr) 2600 mg/l Algae

Biodegradation BOD₂ 62. Slightly or not bioaccumulative

Toxicity to fish: LC50 (96 hr) 10 mg/l Bluegill sunfish (*Lepomis macrochirus*), LC50 (96hr) 460 ml/l Fathead minnow (*Pimephales promelas*), Toxicity to Algae: IC50 (72hr) 700 mg/l

METHYLENEDI (CYCLOHEXYLAMINE)

LC50 (96hr) 46-100 mg/l (species golden orfe).

EC50 (48hr) 6.84 mg/l (species Daphnia magna).

IC50 (72hr) 140-200 mg/l (species algae)

cyclohexanamine, 4,4-methylenebis reaction products

LC50 (96hr) 7.8 mg/l (species rainbow trout)

CAS# 2855-13-2

Toxicity to fish: LC50 *Lauciscus idus* 110 mg/l (96hr).

Toxicity to Daphnia NOEC 3 mg/l (504hr). EC50 Daphnia magna 23 mg/l (48 hr). ErC50 *scenedesmus subspicatus* 50 mg/l (72 hr). NOEC *scenedesmus subspicatus* 1.5 mg/l (72 hr).

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Toxicity to bacteria: EC10 *Pseudomonas putida* 1120 mg/l (18 hr).

CAS# 69-72-7

Toxicity to Fish LC50 (*Leuciscus idus* – 96 mg/l).

Toxicity to *Daphnia magna* – 105mg/l, 24 hr.

Component Mutagenic Effects: Mutagenic for bacteria and/or yeast. Developmental toxicity: Classified reproductive system toxin/female, development toxin possible.

Persistence and Degradability

No known applicable information.

Mobility in Soil

Mobility in Soil: No data available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: Waste generation should be minimized or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

Unused and Contaminated Product: Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labeled with their contents. Incineration or landfill should only be considered when recycling is not feasible.

SECTION 14: TRANSPORT INFORMATION

14.1 In Accordance with DOT

Proper Shipping Name : Corrosive liquid N.O.S. (contains Isophorone diamine, 2-hydroxy benzoic acid, benzyl alcohol)

Hazard Class : 8

Identification Number : UN 1760

Packing Group : 3

14.2 In Accordance with IMDG

Proper Shipping Name : Corrosive liquid N.O.S. (contains Isophorone diamine, 2-hydroxy benzoic acid, benzyl alcohol)

Hazard Class : 8

Identification Number : UN 1760

Packing Group : 3

14.3 In Accordance with IATA

Proper Shipping Name : Corrosive liquid N.O.S. (contains Isophorone diamine, 2-hydroxy benzoic acid, benzyl alcohol)

Hazard Class : 8

Identification Number : UN 1760

Packing Group : 3

SECTION 15: REGULATORY INFORMATION

US Federal Regulations

OSHA 29 CFR 1910-1200 –See section 2

TSCA – All components of this product are listed on TSCA Inventory.

CERCLA Reportable Quantity – None

SARA Title III: Section 302 Extremely Hazardous Substances – None
Section 304 – Not applicable.

Section 311/312 – Acute health and Chronic Health

RCRA – Refer to section 13.

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US State Regulations

Component data:

State Right to Know:

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
CAS# 69-72-7		X	X		

SECTION 16: OTHER INFORMATION

Revision Date : 12/21/2022

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

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