



Tread-Shield

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: Tread-Shield A

Product Code: 2021 A

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 %
MODIFIED DIGLYCIDYL ETHER OF BISPHENOL A	25068-38-6	40-70
Talc	14807-96-6	15-40
*Crystalline silica (component of talc)	14808-60-7	0.1-1.0
Alkyl Glycidyl Ether	69609-97-2	10-30
Limestone	1317-65-3	10-30
*Xylene	1330-20-7	0.1-1.0
*Ethyl benzene (component of xylene)	100-41-4	<0.1
Siloxanes and silicones, di-me reactions products with silica (non-hazardous)	67762-90-7	0.1-1.0
siloxanes and silicones, di-methyl (non-hazardous)	63148-62-9	0.1-1.0
Colors may contain @ 10-30%		
*Carbon	1333-86-4	<1.0
Titanium Dioxide	13463-67-7	<1.0
Silicon Dioxide	7631-86-9	<1.0
Ferric Oxide	1309-37-1	<1.0
Iron III hydroxide	20344-49-4	<1.0
C.I. Pigment Blue	147-14-8	<1.0
Aluminum Oxide	1344-28-1	<1.0
Iron Oxide Yellow	51270-00-1	<1.0

- *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).

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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 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.

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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
MODIFIED DIGLYCIDYL ETHER OF BISPHENOL A	25068-38-6	None	None	None
Talc	14807-96-6	20 mg/m3	20 mg/m3	20 mg/m3
*Crystalline silica (component of talc)	14808-60-7	0.05 mg/m3	.025 mg/m3	0.05 mg/m3
Alkyl Glycidyl Ether	69609-97-2	None	None	None
Limestone	1317-65-3	15 mg/m3	5 mg/m3	None
*Xylene	1330-20-7	100 ppm	100 ppm	150 ppm
*Ethyl benzene (component of xylene)	100-41-4	100 ppm	100 ppm	125 ppm
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
*Carbon	1333-86-4	3.5 ppm	3.4 ppm	None
Titanium Dioxide	13463-67-7	10 mg/m3	10 mg/m3	5 mg/m3
Silicon Dioxide	7631-86-9	6 mg/m3	10 mg/m3	None
Ferric Oxide	1309-37-1	10 mg/m3	8 mg/m3	None
Iron III hydroxide	20344-49-4	15 mg/m3	5mg/m3	None
C.I. Pigment Blue	147-14-8	1 mg/m3	1 mg/m3	None
Aluminum Oxide	1344-28-1	15 mg/m3	10 mg/m3	None
Iron Oxide Yellow	51270-00-1	15 mg/m3	10 mg/m3	None

Control Parameters

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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 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:	low viscosity liquid 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)	1.5
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. Reaction with some curing agents can generate large amounts of heat.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects – Product

CAS# 25068-38-6:

LD50 Oral: >5000 mg/kg (rat),

LD50 skin (adult rabbit) >6000 mg/kg (rabbit)

CAS# 68609-97-2

LD50 Oral: >10000 mg/kg (rat),

CAS# 14807-96-6

Carcinogenic effects – this component may contain crystalline silica dust can cause silicosis, a form of progressive pulmonary fibrosis. Inhalable crystalline silica is listed by IARC as a group I carcinogen (lung) based on sufficient evidence in occupationally exposed humans and sufficient evidence in animals. Crystalline Silica is also listed by the NTP as a known human carcinogen

Limestone:

LD50 Oral: = 6450 mg/kg

This product contains greater than 0.1% crystalline silica which is listed as a group I carcinogen by IARC, a known carcinogen by NTP, OSHA and as A2 suspected human carcinogen by ACGIH

Xylene

LD50 Oral: 4.3 g/kg

LD50 skin (adult rabbit) 2000 mg/kg

LC50 Inhalation: 26800ppm

Iron III hydroxide CAS# 20344-49-4

LD50 Oral: >5000 mg/kg (rat).

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

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

Component Yellow Pigment

LD50 Oral: >20g /kg (rat).

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 dioxide 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

CAS# 25068-38-6:

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

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

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Xylene

Fish toxicity: 1 < LCECIC50 < 10mg/l,

Algae Toxicity: Toxic 1 < LC/EC/IC50 <10mg/l,

Invertebrate Toxicity: Toxic 1 < LC/EC/IC50 <10mg/l,

Mobility – floats on water. If it enters the soil it will be highly mobile and may contaminate groundwater. Oxidises rapidly by photo-chemical reactions in air

Iron III hydroxide CAS# 20344-49-4:

Fish toxicity: LC50 >1000 mg/l (golden Orfe).

Microorganism Toxicity: LC50 >1000 mg/l (pseudomonas putida)

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.

CERCLA Reportable Quantity – Not applicable

SARA Title III: Section 302 Extremely Hazardous Substances – None

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Section 304 – Not applicable.


Section 311/312 – Acute health and Chronic Health

RCRA – Refer to section 13.

US State Regulations

Xylene contains EPCRA section 313 chemicals subject to the reporting requirements of the emergency planning and community right to know act of 1968. (Maximum wt % for components of xylene are: M-Xylene CAS# 108-38-3 is 46%, P-Xylene CAS# 106-42-3 is 20%, Ethyl Benzene CAS# 100-41-4 is 19%, O-Xylene CAS# 95-47-6 is 16%..

California Proposition 65 Carcinogens:

 **WARNING** This product contains Titanium Dioxide which is known to the State of California as a cancer hazard if in respirable form. For more information, go to WWW.P65Warning.ca.gov.

Component data:

State Right to Know:

Component	MA	NJ	PA	IL	RI	CA	MN
CAS# 25068-38-6		X	X				
CAS# 68609-97-2		X	X				
Xylene	X	X	X				
Iron III hydroxide CAS# 20344-49-4	X		X			X	
CAS# 95-63-6	X	X	X				
CAS# 108-65-6	X	X	X				
CAS# 7631-86-9:							X
CAS# 1344-28-1:	X	X	X				
Titanium Dioxide		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.

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: Tread-Shield Part B

Product Code: 2030-B

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.
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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):

Acute Toxicity (oral)	Cat 4
Acute Toxicity (inhalation)	Cat 4
Skin corrosion /Irritation	Cat 1B
Skin Sensitizer	Cat 1A
Eye Damage/Irritation	Cat 1
Germ Cell Mutagenicity	Cat 2
Reproductive toxicity	Cat 2
STOT RE	Cat 2
Acute aquatic hazard	Cat 2
Chronic aquatic hazard	Cat 2

Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US) :



Signal Word (GHS-US) :

Danger

Hazard Statements (GHS-US) :

H302: Harmful if swallowed
H332: Harmful if inhaled
H314: Causes severe skin burns and eye damage
H317: May cause an allergic skin reaction
H318: Causes serious eye damage
H341: Suspected of causing genetic defects
H361: Suspected of damaging fertility or the unborn child
H373: May cause damage to organs (skin, central nervous system) through prolonged or repeated exposure
H401: Toxic 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
En (English US)

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P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P260 Do not breathe dust/fume/gas/mist/vapours/spray
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.
P271 Use only outdoors or in a well-ventilated area
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P273 Avoid release to the environment.

Response;

P301 + P312 IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell.
P330 Rinse mouth.
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
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.
P310 If in eyes, immediately call a POISON CENTER or doctor/physician.
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.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P308 + P313 IF exposed or concerned: Get medical advice/attention.
P314 Get medical advice/attention if you feel unwell
P391 Collect spillage.

Storage:

P405 Store locked up

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
Cycloaliphatic amine adduct	68609-08-5	10-30
3-aminomethyl-3,5,5-trimethyl cyclohexane	2855-13-2	10-30
Nonyl phenol	84852-15-3	7-13

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

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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 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
Cycloaliphatic amine adduct	68609-08-5	None	None	None

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3-aminomethyl-3,5,5-trimethyl cyclohexane	2855-13-2	None	None	None
Nonyl phenol	84852-15-3	None	None	None

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°):	401-560
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.

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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

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.

Component CAS# 2855-13-2:
Oral LD50 rat 1030 mg/kg

Component Nonyl Phenol:
Median Lethal Dose Oral: LD50 0.58g/kg (rat)
Dermal LD50 2.14g/kg (rabbit)
Skin LD50 > 1000 mg/kg (rabbit) all estimated

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
Toxicity to Algae: IC50 (72hr) 700 mg/l EC50 (72hr) 2600 mg/l Algae
Toxicity to fish: LC50 (96 hr) 10 mg/l Bluegill sunfish (<i>Lepomis macrochirus</i>), LC50 (96hr) 460 ml/l Fathead minnow (<i>Pimephales promelas</i>),

Component CAS# 2855-13-2:
Toxicity to fish: LC50 <i>Lauciscus idus</i> 110 mg/l (96hr).
Toxicity to Daphnia NOEC 3 mg/l (504hr). EC50 Daphnia magna 23 mg/l (48 hr).
ErC50 <i>scenedesmus subspicatus</i> 50 mg/l (72 hr).
Toxicity to bacteria: EC10 <i>Pseudomonas putida</i> 1120 mg/l (18 hr).

Component Nonyl Phenol:
Ecotoxicity: Daphnia EC50: 0.14-0.44 mg/l, 48 hr
Aquatic Toxicity LC50 96 hr, toxicity rating is <0.10 ppm – extremely toxic
Component is not readily biodegradable

Persistence and Degradability

No known applicable information.

Mobility in Soil

Mobility in Soil: No data available

SECTION 13: DISPOSAL CONSIDERATIONS

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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, nonyl phenol)
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, nonyl phenol)
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, nonyl phenol)
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.

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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