SAFETY DATA SHEET

1. Identification

Product identifier	**TUFCHEM™ EPOXY HARDENER**
Other means of identification	None.
Recommended use	Not available.
Recommended restrictions	None known.

Manufacturer/Importer/Supplier/Distributor information

Company Name	ErgonArmor, a division of Ergon Asphalt & Emulsions, Inc.
Address	2829 Lakeland Drive Jackson, MS 39232 USA
After hours telephone number	1-800-222-7122
Normal work hours telephone number	1-877-982-7667
Website	www.ergonarmor.com
E-mail	sds@ergon.com
Emergency 24-hour telephone number	CHEMTREC: North America 1-800-424-9300 International 1-800-527-3887
Information on operation hours	8:00 a.m. to 5:00 p.m.

2. Hazard(s) identification

Hazards for the product as sold

Physical hazards	Not classified.	
Health hazards	Acute toxicity, oral	Category 3
	Acute toxicity, dermal	Category 3
	Acute toxicity, inhalation	Category 2
	Skin corrosion/irritation	Category 1
	Serious eye damage/eye irritation	Category 1
	Sensitization, respiratory	Category 1
	Sensitization, skin	Category 1
	Germ cell mutagenicity	Category 2
	Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation
	Specific target organ toxicity, repeated exposure	Category 2
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	

Label elements

Signal word	Danger
Hazard statement	Fatal if inhaled. Toxic if swallowed. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Causes severe skin burns and eye damage. Causes serious eye damage. May cause an allergic skin reaction. Suspected of causing genetic defects. May cause damage to organs through prolonged or repeated exposure.

Precautionary statement

Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wash thoroughly after handling. In case of inadequate ventilation wear respiratory protection. Use only outdoors or in a well-ventilated area.
Response	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice/attention. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. Immediately call a POISON CENTER or doctor/physician. Take off immediately all contaminated clothing and wash it before reuse. If exposed or concerned: Get medical advice/attention. Call a POISON CENTER/doctor if you feel unwell. Specific treatment see Section 4 of this SDS.
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS No./Unique ID	%
Diaminopolypropylene glycol		9046-10-0	50 - 70
2,2'-Iminodiethylamine		111-40-0	20 - 40
DIETHYLENETRIAMINE, OXIRANE POLYMER		28063-82-3	1 - 10
PHENOL		108-95-2	1 - 10
2-Piperazin-1-ylethylamine		140-31-8	< 1

4. First-aid measures

Inhalation	Move to fresh air. For breathing difficulties, oxygen may be necessary. Get medical attention immediately.
Skin contact	Wash off with soap and water. Take off immediately all contaminated clothing. Wash clothing separately before reuse. Get medical attention immediately.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
Ingestion	Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Never give anything by mouth to a victim who is unconscious or is having convulsions. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Dizziness. Headache. Nausea, vomiting. Difficulty in breathing. Abdominal pain. Itching. May cause redness and pain. Causes serious eye damage. Unconsciousness. May cause an allergic skin reaction. May cause mild irritation including stinging, watering, and redness. Irritation of nose and throat. Upper respiratory tract irritation. May cause severe irritation or burns to the eyes, skin, gastrointestinal tract, and respiratory system.
Indication of immediate medical attention and special treatment needed	Treat symptomatically. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Keep victim under observation. Show this safety data sheet to the doctor in attendance. In case of shortness of breath, give oxygen.

5. Fire-fighting measures

Suitable extinguishing media	Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get this material in contact with eyes. Do not taste or swallow. Avoid contact with skin. Avoid prolonged exposure. Avoid contact with clothing. Do not use in areas without adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash thoroughly after handling. Avoid release to the environment. Do not empty into drains.
Conditions for safe storage, including any incompatibilities	CAUTION Store locked up. Keep away from heat, sparks and open flame. Store in a closed container away from incompatible materials. Store in a well-ventilated place. Keep away from food, drink and animal feedingstuffs. Keep out of the reach of children. Store in accordance with local/regional/national/international regulation.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Permissible Exposure Limits (PEL) for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
PHENOL (CAS 108-95-2)	PEL	19 mg/m3 5 ppm

US. ACGIH Threshold Limit Values (TLV)

Components	Type	Value
2,2'-Iminodiethylamine (CAS 111-40-0)	TWA	1 ppm
PHENOL (CAS 108-95-2)	TWA	5 ppm

NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended

Components	Type	Value
PHENOL (CAS 108-95-2)	IDLH	1.8 % 250 ppm

US. NIOSH: Pocket Guide to Chemical Hazards Recommended Exposure Limits (REL)

Components	Type	Value
2,2'-Iminodiethylamine (CAS 111-40-0)	TWA	4 mg/m3
		1 ppm
PHENOL (CAS 108-95-2)	Ceiling	60 mg/m3
		15.6 ppm
	TWA	19 mg/m3
		5 ppm

Biological limit values

ACGIH Biological Exposure Indices (BEI)

Components	Value	Determinant	Specimen	Sampling Time
PHENOL (CAS 108-95-2)	250 mg/g	Phenol with hydrolysis	Creatinine in urine	*

* - For sampling details, please see the source document.

Exposure guidelines

US - California OELs: Skin designation

2,2'-Iminodiethylamine (CAS 111-40-0)	Can be absorbed through the skin.
PHENOL (CAS 108-95-2)	Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

2,2'-Iminodiethylamine (CAS 111-40-0)	Skin designation applies.
PHENOL (CAS 108-95-2)	Skin designation applies.

US - Tennessee OELs: Skin designation

PHENOL (CAS 108-95-2)	Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

2,2'-Iminodiethylamine (CAS 111-40-0)	Danger of cutaneous absorption
PHENOL (CAS 108-95-2)	Danger of cutaneous absorption

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

2,2'-Iminodiethylamine (CAS 111-40-0)	Can be absorbed through the skin.
PHENOL (CAS 108-95-2)	Can be absorbed through the skin.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

PHENOL (CAS 108-95-2)	Can be absorbed through the skin.

Appropriate engineering controls Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

Individual protection measures, such as personal protective equipment

Eye/face protection Safety glasses. If risk of splashing, wear safety goggles or face shield.

Skin protection

Hand protection Chemical resistant gloves. Chemical resistant gloves are recommended. If contact with forearms is likely wear gauntlet style gloves.

Other Wear appropriate clothing to prevent any possibility of skin contact.

Respiratory protection When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Physical state Liquid.

Form Liquid.

Color Amber.

Odor Amine.

Melting point/freezing point Not available.

Boiling point or initial boiling point and boiling range	Not available.
Flammability	Not available.
Upper/lower flammability or explosive limits	
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Flash point	>200.0 °F (>93.3 °C) estimated
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
pH	Not available.
Kinematic viscosity	Not available.
Solubility	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Vapor pressure	Not available.
Density and/or relative density	
Density	8.00 lb/gal
Vapor density	Not available.
Particle characteristics	Not available.
Other information	
Specific gravity	0.96 @ 22°C/72°F

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong acids. Peroxides. Phenols.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin contact	Harmful in contact with skin.
Eye contact	Causes eye burns.
Ingestion	Toxic if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.
Symptoms related to the physical, chemical and toxicological characteristics	Unconsciousness. Nausea, vomiting. Dizziness. May cause redness and pain. Shortness of breath. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause severe irritation or burns to the eyes, skin, gastrointestinal tract, and respiratory system. Irritation of nose and throat. Upper respiratory tract irritation.

Information on toxicological effects

Acute toxicity	Toxic in contact with skin. Toxic if swallowed.

Components	Species	Test Results
2,2'-Iminodiethylamine (CAS 111-40-0)		
Acute		
Dermal		
LD50	Rabbit	1045 mg/kg
Inhalation		
Mist		
LC50	Rat	0.07001 mg/l, 4 Hours
Oral		
LD50	Rat	1553 mg/kg
2-Piperazin-1-ylethylamine (CAS 140-31-8)		
Acute		
Dermal		
LD50	Rabbit	866 mg/kg
Oral		
LD50	Rat	1470 mg/kg
Diaminopolypropylene glycol (CAS 9046-10-0)		
Acute		
Dermal		
LD50	Rabbit	2980 mg/kg, 24 Hours
Inhalation		
Vapor		
LC50	Rat	> 0.74 mg/l, 8 Hours
Oral		
LD50	Rat	2885 mg/kg
Subchronic		
Dermal		
NOAEL	Rat	250 mg/kg, 90 days

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Causes severe skin burns and eye damage.

Corrosivity

2,2'-Iminodiethylamine	Result: Corrosive after 3 minutes or less of exposure Species: Rabbit
2-Piperazin-1-ylethylamine	Result: Corrosive after 3 minutes to 1 hour of exposure Species: Rabbit

Serious eye damage/eye irritation Causes severe eye burns.

Eye

2,2'-Iminodiethylamine	Result: Irreversible effects on the eye Species: Rabbit
2-Piperazin-1-ylethylamine	Result: Irreversible effects on the eye Species: Rabbit

Respiratory or skin sensitization

Respiratory sensitization May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin sensitization May cause allergic skin disorders in sensitive individuals. Causes skin burns.

Skin sensitization

2,2'-Iminodiethylamine	Local lymph node assay (LLNA) Result: Positive Species: Mouse

Skin sensitization

2-Piperazin-1-ylethylamine	Maximization test Result: Positive Species: Guinea pig Organ: Skin

Germ cell mutagenicity Suspected of causing genetic defects.

Germ cell mutagenicity: Ames test

2-Piperazin-1-ylethylamine	In vitro Result: Negative In vitro Result: Positive
2,2'-Iminodiethylamine	OECD Test Guideline 471 Result: Positive

Germ cell mutagenicity: Chromosome Aberration

2,2'-Iminodiethylamine	In vitro Result: Negative

Germ cell mutagenicity: Micronucleus

2-Piperazin-1-ylethylamine	In vivo Result: Negative Species: Mouse Organ: Intraperitoneal injection

Mutagenicity

2,2'-Iminodiethylamine	In vitro mammalian cell gene mutation test Result: Negative
2-Piperazin-1-ylethylamine	In vitro mammalian cell gene mutation test Result: Negative In vitro sister chromatid exchange assay in mammalian cell s Result: Positive

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

2,2'-Iminodiethylamine	Skin contact Result: Negative Species: Mouse Test Duration: 587 days

IARC Monographs. Overall Evaluation of Carcinogenicity

PHENOL (CAS 108-95-2)	3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity Not available.

Reproductivity

2,2'-Iminodiethylamine	Embryo-foetal development (Ingestion) Result: Negative Species: Rat
2-Piperazin-1-ylethylamine	OECD Test Guideline 422 Result: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test (Ingestion): Negative Species: Rat Organ: Ingestion
2,2'-Iminodiethylamine	Reproduction/Developmental toxicity screening test (Ingestion) Result: Negative Species: Rat

Specific target organ toxicity - single exposure May cause respiratory irritation.

Specific target organ toxicity - repeated exposure May cause damage to organs through prolonged or repeated exposure.

Specific target organ toxicity - repeated exposure

2-Piperazin-1-ylethylamine	0.0535 mg/l NOAEL (Inhalation), OECD Test Guideline 413 Species: Rat Organ: Inhalation (vapour) Test Duration: 13 weeks
2,2'-Iminodiethylamine	10 - 100 mg/kg NOAEL (Ingestion) Species: Rat Test Duration: 90 days
2-Piperazin-1-ylethylamine	1000 mg/kg NOAEL (Skin contact), OECD Test Guideline 410 Species: Rat Test Duration: 29 days 2000 mg/kg NOAEL (Ingestion), OECD Test Guideline 422 Species: Rat Test Duration: 28 days

Aspiration hazard Not available.

Chronic effects Prolonged inhalation may be harmful.

Further information May cause allergic respiratory and skin reactions.

12. Ecological information

Ecotoxicity

Product		**Species**	**Test Results**
TUFCHEM™ EPOXY HARDENER			
Aquatic			
Crustacea	EC50	Daphnia	724.1353 mg/l, 48 hours
Fish	LC50	Fish	456.8776 mg/l, 96 hours
Components		**Species**	**Test Results**
2,2'-Iminodiethylamine (CAS 111-40-0)			
	EC50	Selenastrum capricornutum (new name Pseudokirchneriella subcapitata)	1164 mg/l, 72 Hours
	NOEC	Selenastrum capricornutum (new name Pseudokirchneriella subcapitata)	10 mg/l, 72 Hours
Aquatic			
Acute			
Crustacea	EC50	Daphnia magna	16 mg/l, 48 hours
Fish	LC50	Poecilia reticulata	430 mg/l, 96 hours
Chronic			
Crustacea	NOEC	Daphnia magna	5.6 mg/l, 21 days
Fish	NOEC	Threespine stickleback (Gasterosteus aculeatus)	> 10 mg/l, 28 days
2-Piperazin-1-ylethylamine (CAS 140-31-8)			
Acute			
Other	NOEC	Pseudokirchnerella subcapitata	31 mg/l, 72 Hours
Aquatic			
Acute			
Crustacea	EC50	Daphnia magna	58 mg/l, 48 Hours
Fish	LC50	Oncorhynchus mykiss	2190 mg/l, 96 Hours
Diaminopolypropylene glycol (CAS 9046-10-0)			
	EC10	Selenastrum capricornutum (new name Pseudokirchneriella subcapitata)	1.4 mg/l, 72 Hours
	EC50	Selenastrum capricornutum (new name Pseudokirchneriella subcapitata)	15 mg/l, 72 Hours

Components		Species	Test Results
Aquatic			
Acute			
Crustacea	EC50	Daphnia magna	80 mg/l, 48 hours
Fish	LC50	Cyprinodon variegatus	> 100 mg/l, 96 Hours

Persistence and degradability No data is available on the degradability of this substance.

Bioaccumulative potential Not available.

Partition coefficient n-octanol / water (log Kow)

2,2'-Iminodiethylamine	-5.58
2-Piperazin-1-ylethylamine	-1.48
Diaminopolypropylene glycol	1.34
PHENOL	1.46

Mobility in soil Not available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

UN number UN2735

UN proper shipping name Amines, liquid, corrosive, n.o.s, or Polyamines, liquid, corrosive, n.o.s. (Polyoxypropylene diamine)

Transport hazard class(es)

Class 8

Subsidiary hazard -

Label(s) 8

Packing group III

Environmental hazards

Marine pollutant No.

Special precautions for user Not assigned.

Special provisions IB3, T7, TP1, TP28

Packaging exceptions 154

Packaging non bulk 203

Packaging bulk 241

IATA

UN number UN2735

UN proper shipping name Amines, liquid, corrosive, n.o.s. (Polyoxypropylene diamine)

Transport hazard class(es)

Class 8

Subsidiary hazard -

Packing group III

Environmental hazards No.

ERG Code 8L

Special precautions for user Not assigned.

Other information

Passenger and cargo aircraft Allowed with restrictions.

Cargo aircraft only Allowed with restrictions.

IMDG

UN number UN2735

UN proper shipping name AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Polyoxypropylene diamine)

Transport hazard class(es)

Class 8

Subsidiary hazard -

Packing group III

Environmental hazards

Marine pollutant No.

EmS F-A, S-B

Special precautions for user Not assigned.

Transport in bulk according to IMO instruments Not available.

DOT

IATA; IMDG

15. Regulatory information

US federal regulations

Toxic Substances Control Act (TSCA)

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

PHENOL (CAS 108-95-2)

SARA 304 Emergency release notification

PHENOL (CAS 108-95-2) 1000 LBS

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Chemical name	CAS number	Reportable quantity (pounds)	Threshold planning quantity (pounds)	Threshold planning quantity, lower value (pounds)	Threshold planning quantity, upper value (pounds)
PHENOL	108-95-2	1000		500	10000

SARA 311/312 Hazardous chemical Yes

Classified hazard categories
Acute toxicity (any route of exposure)
Skin corrosion or irritation
Serious eye damage or eye irritation
Respiratory or skin sensitization
Specific target organ toxicity (single or repeated exposure)

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
PHENOL	108-95-2	1 - 10

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

PHENOL (CAS 108-95-2)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

PHENOL (CAS 108-95-2) Low priority

US state regulations

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

PHENOL (CAS 108-95-2)

California Proposition 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 04-13-2023

Revision date	11-03-2025
Version #	02
NFPA ratings	Health: 2 Flammability: 1 Instability: 0
Disclaimer	The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.