



EternaFoam - Part B

Safety Data Sheet

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

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Product name : EternaFoam - Part B

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Two-Component, closed-cell, polyurethane foam system specifically designed to provide a high performance, light weight roofing system for use over insulation water proofing a wide variety of roof deck construction and configurations.
Use of the substance/mixture : A component for the production of spray insulation foam

1.3. Details of the supplier of the safety data sheet

TROPICAL ROOFING PRODUCTS
1818 SW 31ST AVE
HALLANDALE, FL 33009 - USA
T (800)535-6947 - F (954)963-2033

1.4. Emergency telephone number

Emergency number : 800-424-9300 Chemtrec

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Skin Irrit. 2 H315
Eye Dam. 1 H318
Skin Sens. 1 H317

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US) :



GHS05

GHS07

Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage

Precautionary statements (GHS-US) :

P261 - Avoid breathing mist, spray, fume, vapours
P264 - Wash hands, face thoroughly after handling
P272 - Contaminated work clothing must not be allowed out of the workplace
P280 - Wear eye protection, protective gloves, protective clothing
P302+P352 - If on skin: Wash with plenty of water
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 - Immediately call a doctor, a POISON CENTER
P321 - Specific treatment (see on this label)
P332+P313 - If skin irritation occurs: Get medical advice/attention
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention
P362 - Take off contaminated clothing and wash before reuse
P362+P364 - Take off contaminated clothing and wash it before reuse
P501 - Dispose of contents/container to comply with applicable local, national and international regulation.

2.3. Other hazards

No additional information available

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2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	GHS-US classification
Oxirane, 2-methyl-, polymer with oxirane, ether with 2,6-bis[[bis(2hydroxyethyl)amino]methyl]-4-branched nonylphenol	(CAS No) 940912-28-7	< 30	Skin Irrit. 2, H315 Eye Dam. 1, H318
2-propanol, 1-chloro-, phosphate (3:1)	(CAS No) 13674-84-5	< 20	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312
2,2-dimethylpropan-1-ol, tribromo derivative	(CAS No) 36483-57-5	< 15	Eye Irrit. 2A, H319
nonylphenol, ethoxylated	(CAS No) 9016-45-9	< 10	Skin Irrit. 2, H315 Eye Irrit. 2A, H319
Ethanol, 2-[(2-aminoethyl)amino]-, polymer with methyloxirane	(CAS No) 31568-06-6	< 8	Skin Sens. 1, H317
diethylene glycol	(CAS No) 111-46-6	< 6	Acute Tox. 4 (Oral), H302
ethylene glycol	(CAS No) 107-21-1	< 5	Acute Tox. 4 (Oral), H302

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: In all cases of doubt, or when symptoms persist, seek medical attention.
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. In case of breathing difficulties administer oxygen. In case of irregular breathing or respiratory arrest provide artificial respiration. Seek medical advice.
First-aid measures after skin contact	: Remove contaminated clothing immediately. Wash skin thoroughly with mild soap and water. Seek medical attention immediately.
First-aid measures after eye contact	: Rinse immediately with plenty of water for 15 minutes. Contact lenses should be removed. Immediately get medical attention.
First-aid measures after ingestion	: If swallowed, rinse mouth with water (only if the person is conscious). Call a POISON CENTER or doctor/physician. Give water to drink if victim completely conscious/alert. Never give anything by mouth to an unconscious person. Seek medical attention immediately. If unconscious, place in the recovery position and seek medical advice.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation	: Inhalation of mist or aerosol may cause irritation to nose and throat . May cause irritation to the respiratory tract. Headaches.
Symptoms/injuries after skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Symptoms/injuries after eye contact	: Causes serious eye damage.
Symptoms/injuries after ingestion	: Gastrointestinal tract discomfort may produce nausea and vomiting. At levels above the recommended exposure limit, the fluorocarbon acts as a weak narcotic. Acute overexposure causes tremors, confusion, irritation, suffocation, and may result in cardiac sensitization.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Water. Dry extinguishing powder. Carbon dioxide. Foam.
Unsuitable extinguishing media	: None known.

5.2. Special hazards arising from the substance or mixture

No additional information available :

5.3. Advice for firefighters

Protective equipment for firefighters	: Use self-contained breathing apparatus and chemically protective clothing.
Other information	: Prevent entry to sewers and public waters.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Stop leak if safe to do so. Spills of this product present a serious slipping hazard. Avoid breathing mist or vapor . Avoid contact with skin, eyes and clothing.
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6.1.1. For non-emergency personnel

Protective equipment : Wear suitable protective clothing. Refer to section 8.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.
Emergency procedures : Ensure adequate ventilation.

6.2. Environmental precautions

Prevent entry to sewers and public waters. If the product has escaped into a water course, into the drainage system, or has contaminated the ground or vegetation, notify the competent authorities.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into inert absorbent material. Sweep or shovel spills into appropriate container for disposal. Ensure all national/local regulations are observed. Consult the appropriate authorities about waste disposal.

6.4. Reference to other sections

For further information refer to sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Obtain special instructions before use. Avoid mixing with air or use for any purpose above atmospheric pressure. Product should not be mixed with air above atmospheric pressure for leak testing or any other purpose. Use dry nitrogen to transfer or leak test equipment pressurized with product. Avoid contact with skin, eyes and clothing.
Hygiene measures : Wash contaminated clothing prior to re-use. Always wash hands and face immediately after handling this product, and once again before leaving the workplace. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Provide local exhaust or general room ventilation. A washing facility/water for eye and skin cleaning purposes should be present.
Storage conditions : Keep out of direct sunlight. Store in original container. Keep container tightly closed in a cool, well-ventilated place. Keep away from heat. Do not freeze. Product that is frozen and/or tending to sedimentation can be liquefied or homogenized by careful application of indirect heat (do not use flames or direct contact with a heat source). Protect from moisture.
Incompatible materials : Keep away from strong acids, strong bases and oxidizing agents.
Storage temperature : 21 to 26 °C (70 to 80 °F)

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

ethylene glycol (107-21-1)		
ACGIH	ACGIH Ceiling (mg/m ³)	100 mg/m ³ (aerosol only)

8.2. Exposure controls

Appropriate engineering controls : Provide local exhaust or general room ventilation. Ensure adequate ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Personal protective equipment : Protective goggles. Gloves. Protective clothing. Insufficient ventilation: wear respiratory protection.



Hand protection : Wear suitable gloves resistant to chemical penetration. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.
Eye protection : Eye protection, including both chemical splash goggles and face shield, must be worn when possibility exists for eye contact due to spraying liquid or airborne particles.

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Skin and body protection	: Wear protective clothing.
Respiratory protection	: Wear a self-contained breathing apparatus and appropriate personal protective equipment (PPE). An approved organic vapour respirator/supplied air or self-contained breathing apparatus must be used when vapour concentration exceeds applicable exposure limits.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Dark orange to brown
Odour	: Amine-like
Odour threshold	: No data available
pH	: ≥ 7
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 200 °C (closed cup)
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1.15 - 1.17 g/cm ³ @ 25°C (Bulk Density)
Solubility	: Water: Slightly soluble
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 800 - 1000 mPa.s @ 23 °C
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available.

10.2. Chemical stability

Stable under use and storage conditions as recommended in section 7.

10.3. Possibility of hazardous reactions

Stable under use and storage conditions as recommended in section 7 normal conditions of use.

10.4. Conditions to avoid

Temperatures above 26 °C (80 °F). Moisture. Direct sunlight. Heat.

10.5. Incompatible materials

Strong oxidizing agents. Strong acids, bases

10.6. Hazardous decomposition products

Toxic fumes. Carbon oxides (CO, CO₂). Nitrogen oxides. unburned hydrocarbons. possibly carbonyl fluoride. hydrogen fluoride.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified
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2-propanol, 1-chloro-, phosphate (3:1) (13674-84-5)

LD50 dermal rabbit	1230 mg/kg
ATE US (oral)	930.00000000 mg/kg bodyweight
ATE US (dermal)	1230.00000000 mg/kg bodyweight

diethylene glycol (111-46-6)

LD50 oral rat	12565 mg/kg
LD50 dermal rabbit	11890 mg/kg
ATE US (oral)	500.00000000 mg/kg bodyweight
ATE US (dermal)	11890.00000000 mg/kg bodyweight
LD50 oral rat	12565 mg/kg

nonylphenol, ethoxylated (9016-45-9)

LD50 dermal rabbit	1780 µl/kg
ATE US (oral)	2590.00000000 mg/kg bodyweight

ethylene glycol (107-21-1)

LD50 oral rat	4000 - 10200 mg/kg
LD50 dermal rat	10600 mg/kg
ATE US (oral)	500.00000000 mg/kg bodyweight
ATE US (dermal)	10600.00000000 mg/kg bodyweight

Skin corrosion/irritation	: Causes skin irritation. pH: >= 7	
Serious eye damage/irritation	: Causes serious eye damage. pH: >= 7	
Respiratory or skin sensitisation	: May cause an allergic skin reaction.	
Germ cell mutagenicity	: Not classified Based on available data, the classification criteria are not met	
Carcinogenicity	: Not classified Based on available data, the classification criteria are not met	
Reproductive toxicity	: Not classified Based on available data, the classification criteria are not met	
Specific target organ toxicity (single exposure)	: Not classified Based on available data, the classification criteria are not met	
Specific target organ toxicity (repeated exposure)	: Not classified Based on available data, the classification criteria are not met	Not classified
Aspiration hazard	: Not classified Based on available data, the classification criteria are not met	
Symptoms/injuries after inhalation	: Inhalation of mist or aerosol may cause irritation to nose and throat . May cause irritation to the respiratory tract. Headaches.	
Symptoms/injuries after skin contact	: Causes skin irritation. May cause an allergic skin reaction.	
Symptoms/injuries after eye contact	: Causes serious eye damage.	

SECTION 12: Ecological information

12.1. Toxicity

2-propanol, 1-chloro-, phosphate (3:1) (13674-84-5)

LC50 fish 1	56.2 mg/l (96 h, Brachydanio rerio, Static system, Fresh water, Experimental value, GLP)
EC50 Daphnia 1	65 - 335 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Experimental value, GLP)

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diethylene glycol (111-46-6)	
LC50 fish 1	> 5000 ppm (24 h, Carassius auratus)
EC50 Daphnia 1	> 10000 mg/l (24 h, Daphnia magna)
LC50 fish 2	75200 mg/l (Other, 96 h, Pimephales promelas, Flow-through system, Experimental value)
EC50 Daphnia 2	> 10000 mg/l (DIN 38412-11, 24 h, Daphnia magna, Static system, Fresh water, Experimental value)

nonylphenol, ethoxylated (9016-45-9)	
ErC50 (algae)	50 mg/l (Equivalent or similar to EU Method C.3, 48 h, Pseudokirchneriella subcapitata, Static system, Experimental value, Nominal concentration)

ethylene glycol (107-21-1)	
EC50 Daphnia 1	> 10000 mg/l (EC50; 24 h)
LC50 fish 2	40761 mg/l (LC50; 96 h; Salmo gairdneri)

2,2-dimethylpropan-1-ol, tribromo derivative (36483-57-5)	
LC50 fish 1	32 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Cyprinus carpio, Static system, Fresh water, Experimental value, GLP)
EC50 Daphnia 1	64 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
ErC50 (algae)	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Selenastrum capricornutum, Static system, Fresh water, Experimental value, GLP)

12.2. Persistence and degradability

2-propanol, 1-chloro-, phosphate (3:1) (13674-84-5)	
Persistence and degradability	Not readily biodegradable in water.

diethylene glycol (111-46-6)	
Persistence and degradability	Biodegradable in the soil. Biodegradable in water.
Biochemical oxygen demand (BOD)	0.02 g O ₂ /g substance
Chemical oxygen demand (COD)	1.51 g O ₂ /g substance
ThOD	1.51 g O ₂ /g substance
BOD (% of ThOD)	0.015

nonylphenol, ethoxylated (9016-45-9)	
Persistence and degradability	Readily biodegradable in water.

ethylene glycol (107-21-1)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil.
Biochemical oxygen demand (BOD)	0.47 g O ₂ /g substance
Chemical oxygen demand (COD)	1.24 g O ₂ /g substance
ThOD	1.29 g O ₂ /g substance
BOD (% of ThOD)	0.36

2,2-dimethylpropan-1-ol, tribromo derivative (36483-57-5)	
Persistence and degradability	Not readily biodegradable in water.

12.3. Bioaccumulative potential

2-propanol, 1-chloro-, phosphate (3:1) (13674-84-5)	
BCF fish 1	0.8 - 4.6 (42 day(s), Cyprinus carpio, Fresh water, Experimental value)
Log Pow	2.59 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

diethylene glycol (111-46-6)	
BCF fish 1	100 (Other, 3 day(s), Leuciscus melanotus, Static system, Fresh water, Experimental value)
Log Pow	-1.98 (Calculated, Other)
Bioaccumulative potential	Not bioaccumulative.

nonylphenol, ethoxylated (9016-45-9)	
Log Pow	3.7 (Experimental value, Equivalent or similar to OECD 117, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

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ethylene glycol (107-21-1)	
BCF fish 1	10 (BCF; 72 h)
BCF other aquatic organisms 1	0.21 - 0.6 (BCF)
BCF other aquatic organisms 2	190 (BCF; 24 h)
Log Pow	-1.34 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

2,2-dimethylpropan-1-ol, tribromo derivative (36483-57-5)	
Log Pow	2.6 (Calculated, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 22.5 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

12.4. Mobility in soil

2-propanol, 1-chloro-, phosphate (3:1) (13674-84-5)	
Log Koc	2.46 - 3.21 (log Koc, SRC PCKOCWIN v2.0, QSAR)
Ecology - soil	Low potential for adsorption in soil.

diethylene glycol (111-46-6)	
Surface tension	0.0485 N/m
Log Koc	0 (log Koc, SRC PCKOCWIN v1.66, Calculated value)
Ecology - soil	Highly mobile in soil.

nonylphenol, ethoxylated (9016-45-9)	
Surface tension	32.3 mN/m (20 °C, 1 g/l, OECD 115: Surface Tension of Aqueous Solutions)
Ecology - soil	No (test) data on mobility of the substance available.

ethylene glycol (107-21-1)	
Surface tension	0.048 N/m (20 °C)

2,2-dimethylpropan-1-ol, tribromo derivative (36483-57-5)	
Ecology - soil	Highly mobile in soil.

12.5. Other adverse effects

Effect on ozone layer	: No additional information available
Effect on the global warming	: No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Product wastes can often be incinerated in approved facilities. Consult the appropriate authorities about waste disposal.
Additional information	: Do not re-use empty containers. Do not dispose of waste into sewer. Do not cut, grind, drill, weld, reuse or dispose off containers unless adequate precautions are taken against these hazards. Container Disposal: Steel drums must be emptied and can be sent to a licensed drum reconditioner for reuse, a scrap metal dealer or an approved landfill. Refer to 40 CFR § 261.7 (residues of hazardous waste in empty containers). Decontaminate containers prior to disposal. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers. Ensure all national/local regulations are observed.
Ecology - waste materials	: Avoid release to the environment. Do not allow into drains or water courses.

SECTION 14: Transport information

In accordance with DOT
Not regulated for transport

Additional information

Other information	: No supplementary information available.
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ADR

No additional information available

Transport by sea

No additional information available

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Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

Oxirane, 2-methyl-, polymer with oxirane, ether with 2,6-bis[[bis(2hydroxyethyl)amino]methyl]-4-branched nonylphenol (940912-28-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

EPA TSCA Regulatory Flag

P - P - indicates a commenced PMN substance.
XU - XU - indicates a substance exempt from reporting under the Inventory Update Reporting Rule, i.e., Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C)).

2-propanol, 1-chloro-, phosphate (3:1) (13674-84-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

diethylene glycol (111-46-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

nonylphenol, ethoxylated (9016-45-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

EPA TSCA Regulatory Flag

XU - XU - indicates a substance exempt from reporting under the Inventory Update Reporting Rule, i.e., Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C)).

ethylene glycol (107-21-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory
Subject to reporting requirements of United States SARA Section 313

EPA TSCA Regulatory Flag

Y2 - Y2 - indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

RQ (Reportable quantity, section 304 of EPA's List of Lists)

5000 lb

Ethanol, 2-[(2-aminoethyl)amino]-, polymer with methyloxirane (31568-06-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

EPA TSCA Regulatory Flag

XU - XU - indicates a substance exempt from reporting under the Inventory Update Reporting Rule, i.e., Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C)).

2,2-dimethylpropan-1-ol, tribromo derivative (36483-57-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

Ethylene glycol (107-21-1)

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification

Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects
Class D Division 2 Subdivision A - Very toxic material causing other toxic effects

Nonylphenol ethoxylates (9016-45-9)

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification

Class D Division 2 Subdivision B - Toxic material causing other toxic effects

Diethylene glycol (111-46-6)

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification

Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects

EU-Regulations

Ethylene glycol (107-21-1)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

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Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

15.2.2. National regulations

Ethylene glycol (107-21-1)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the Canadian IDL (Ingredient Disclosure List)

15.3. US State regulations

ethylene glycol (107-21-1)

U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

Indication of changes : 3. Composition/information on ingredients. 2.1. Classification of the substance or mixture. according to the federal final rule of hazard communication revised on 2012 (HazCom 2012).

Revision date : 1/27/2015 12:00:00 AM

Sources of Key data : Data sources: SDS - Safety Data Sheet.

Abbreviations and acronyms : CAS - Chemical Abstracts Service. CSR - Chemical Safety Report. EC - European Community. EEC - European Economic Community. MSDS - Material Safety Data Sheet. PBT - Persistent, Bioaccumulative and Toxic substance. SDS - Safety Data Sheet . STEL- Short-Term Exposure Limit . TLV- Threshold Limit Value. TWA- Time Weighted Average. vPvB - Very Persistent and Very Bioaccumulative.

Full text of H-phrases:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Sensitisation — Skin, category 1
H302	Harmful if swallowed
H312	Harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation

HMIS III Rating

Health : 1 Slight Hazard - Irritation or minor reversible injury possible
Flammability : 1 Slight Hazard
Physical : 1 Slight Hazard

ZLF-PMS 364 CUSTOM TEMPLATE

All information contained in this MSDS is based on current technical data believed to be accurate and reliable. Additions of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since these conditions are outside our control, we furnish this MSDS without any express or implied warranties.



EternaFoam - Part A

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Product name : Tropical - SPF Foam - Part A

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.3. Details of the supplier of the safety data sheet

TROPICAL ROOFING PRODUCTS
1818 SW 31ST AVE
HALLANDALE, FL 33009 - USA
T (800)535-6947 - F (954)963-2033

1.4. Emergency telephone number

Emergency number : 800-424-9300
Chemtrec

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Acute Tox. 4 (Inhalation:dust,mist) H332
Skin Irrit. 2 H315
Resp. Sens. 1 H334
Skin Sens. 1 H317
Carc. 2 H351
STOT SE 3 H335
STOT RE 2 H373

Full text of H-statements: see section 16

2.2. Label elements

GHS-US labelling

0

Hazard pictograms (GHS-US) :



Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H332 - Harmful if inhaled
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335 - May cause respiratory irritation
H351 - Suspected of causing cancer
H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary statements (GHS-US) :

P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P260 - Do not breathe dust/fume/gas/mist/vapors/spray
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
P264 - Wash hands thoroughly after handling
P271 - Use only outdoors or in a well-ventilated area
P272 - Contaminated work clothing must not be allowed out of the workplace
P280 - Wear gloves/protective clothing/eye protection/face protection
P284 - In case of inadequate ventilation wear respiratory protection
P302+P352 - If on skin: Wash with plenty of Wash with soap and water
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
P308+P313 - If exposed or concerned: Get medical advice/attention
P312 - Call POISON CENTER or doctor/physician if you feel unwell
P314 - Get medical advice/attention if you feel unwell
P321 - Specific treatment (see Section 4 on this label)

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P332+P313 - If skin irritation occurs: Get medical advice/attention
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention
P342+P311 - If experiencing respiratory symptoms: Call POISON CENTER or doctor/physician
P362+P364 - Take off contaminated clothing and wash it before reuse
P363 - Wash contaminated clothing before reuse
P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P405 - Store locked up
P501 - Dispose of contents/container to accordance with existing federal, state, and local environmental control laws

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	GHS-US classification
polymethylene polyphenyl isocyanate	(CAS No) 9016-87-9	< 55	Not classified
4,4'-methylenediphenyl diisocyanate, diphenylmethane-4,4'-diisocyanate	(CAS No) 101-68-8	< 40	Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373
methylenediphenyl diisocyanate, isomer mixture	(CAS No) 26447-40-5	< 10	Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373
diphenylmethane-2,4'-diisocyanate	(CAS No) 5873-54-1	< 5	Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : IF exposed or concerned: Get medical advice/attention. Call a poison center or a doctor if you feel unwell.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Symptoms/injuries after skin contact : Irritation. May cause an allergic skin reaction.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Nitrous gases. Do not breathe fumes. Isocyanates. Vapors
Explosion hazard : No direct explosion hazard
Reactivity : The product is stable at normal handling and storage conditions. Water. Reacts with: alcohols. Acids. Alkali metals. Amines. An exothermic reaction may occur. Risk of violent reaction. Risk of polymerization. Contact with certain rubbers and plastics can cause brittleness of the substance/product with subsequent loss in strength. Not corrosive to metals.

5.3. Advice for firefighters

Protection during firefighting : Container device with compressed air (DIN EN 137). Boots. Complete protective clothing. Helmet. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Other Information : Prevent entry into sewers and public waters

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Large spills: Use foam on spills to minimize vapors. Take up large spills with pump or vacuum. Use appropriate container to avoid environmental contamination. Keep container tightly closed. Small spillages: Clean up any spills as soon as possible, using an absorbent material to collect it. Sweep or shovel spills into appropriate container for disposal. Keep container tightly closed and in a well-ventilated place. To clean the floor and all objects contaminated by this material, use plenty of water. Spill area can be decontaminated with the following recommended decontamination solution: Mixture of 90% water, 8% concentrated ammonia, 2% detergent. Add at a 10 to 1 ratio. Allow to stand for at least 48 hours to allow escape of evolved carbon dioxide. For residues: Wash down spill area with decontamination solution. Allow solution to stand for at least 10 minutes. Notify authorities if product enters sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Use only in well-ventilated areas. If bulging of drum occurs, transfer to well ventilated area, puncture to relieve pressure, open vent and let stand for 48 hours before resealing. No direct explosion hazard. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Do not breathe fume, vapors. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes.
Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Possible pressure build-up. Store in well ventilated area. Keep container tightly closed. Keep away from: Water, humidity. Alcohol. Amines. Must be handled or transferred under dry inert gas. Protect from moisture. Store locked up. Keep container tightly closed. Keep cool.
Storage temperature : 15 – 26 °C

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7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

polymethylene polyphenyl isocyanate (9016-87-9)

ACGIH	Not applicable
OSHA	Not applicable

4,4'-methylenediphenyl diisocyanate, diphenylmethane-4,4'-diisocyanate (101-68-8)

ACGIH	ACGIH TWA (ppm)	0.01 ppm
ACGIH	Remark (ACGIH)	Resp sens
OSHA	PEL (Ceiling) (mg/m ³)	0.2 mg/m ³
OSHA	PEL (Ceiling) (ppm)	0.02 ppm
IDLH	US IDLH (mg/m ³)	75 mg/m ³
NIOSH	NIOSH REL (TWA) (mg/m ³)	0.05 mg/m ³
NIOSH	NIOSH REL (TWA) (ppm)	0.005 ppm
NIOSH	NIOSH REL (ceiling) (mg/m ³)	0.2 mg/m ³
NIOSH	NIOSH REL (ceiling) (ppm)	0.02 ppm

diphenylmethane-2,4'-diisocyanate (5873-54-1)

ACGIH	Not applicable
OSHA	Not applicable

methylenediphenyl diisocyanate, isomer mixture (26447-40-5)

OSHA	PEL (Ceiling) (mg/m ³)	0.2 mg/m ³
OSHA	PEL (Ceiling) (ppm)	0.02 ppm

8.2. Exposure controls

Appropriate engineering controls	: Ensure good ventilation of the work station.
Hand protection	: Chemical resistant protective gloves (EN 374) suitable with prolonged, direct contact. Chemical resistant gloves (nitrile-rubber, PVC, neoprene). neoprene. Butyl caoutchouc (butyl rubber). VITON gloves
Eye protection	: Eye protection, including both chemical splash goggles and face shield, must be worn when possibility exists for eye contact due to spraying liquid or airborne particles. Tightly fitting safety goggles. DIN EN 166
Skin and body protection	: Full protection suit.
Respiratory protection	: Wear respiratory protection. An approved organic vapor respirator/supplied air or self-contained breathing apparatus must be used when vapor concentration exceeds applicable exposure limits.
Environmental exposure controls	: Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Mixture contains one or more component(s) which have the following colour(s): Dark amber Off-white
Odour	: There may be no odour warning properties, odour is subjective and inadequate to warn of overexposure. Mixture contains one or more component(s) which have the following odour(s): Stuffy odour Mild odour Characteristic odour
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable

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Freezing point	: 3 °C
Boiling point	: 200 °C
Flash point	: 220 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Water: Solubility in water of component(s) of the mixture : • polymethylene polyphenyl isocyanate: reacts • diphenylmethane-2,4'-diisocyanate: 0.00075 g/100ml (25 °C, insoluble, Calculated) • methylenediphenyl diisocyanate, isomer mixture: 6.8 mg/l (25 °C, insoluble)
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is stable at normal handling and storage conditions. Water. Reacts with: alcohols. acids. Alkali metals. amines. An exothermic reaction may occur. Risk of violent reaction. Risk of polymerization. Contact with certain rubbers and plastics can cause brittleness of the substance/product with subsequent loss in strength. Not corrosive to metals..

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Water. alcohols. Strong bases

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Inhalation:dust,mist: Harmful if inhaled.

Tropical - SPF Foam - Part A	
ATE US (dust,mist)	2.727 mg/l/4h
polymethylene polyphenyl isocyanate (9016-87-9)	
LD50 oral rat	> 10000 mg/kg (Rat, Literature study, Oral)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit, Literature study, Dermal)
4,4'-methylenediphenyl diisocyanate, diphenylmethane-4,4'-diisocyanate (101-68-8)	
ATE US (dust,mist)	1.500 mg/l/4h
diphenylmethane-2,4'-diisocyanate (5873-54-1)	
LD50 oral rat	> 2000 mg/kg bodyweight (Other, Rat, Male / female, Read-across, Oral)

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diphenylmethane-2,4'-diisocyanate (5873-54-1)	
LD50 dermal rabbit	> 9400 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Read-across, Dermal)
LC50 inhalation rat (mg/l)	387 mg/m ³ air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male, Experimental value, Inhalation (aerosol))
ATE US (gases)	4500.000 ppmv/4h
ATE US (vapours)	11.000 mg/l/4h
ATE US (dust,mist)	1.500 mg/l/4h

methylenediphenyl diisocyanate, isomer mixture (26447-40-5)	
LD50 oral rat	> 2000 mg/kg bodyweight (Other, Rat, Male / female, Experimental value, Oral)
LD50 dermal rabbit	> 9400 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Read-across, Skin)
LC50 inhalation rat (mg/l)	0.49 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Read-across, Inhalation (aerosol))
ATE US (gases)	4500.000 ppmv/4h
ATE US (vapours)	11.000 mg/l/4h
ATE US (dust,mist)	1.500 mg/l/4h

Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Suspected of causing cancer.

polymethylene polyphenyl isocyanate (9016-87-9)	
IARC group	3 - Not classifiable

4,4'-methylenediphenyl diisocyanate, diphenylmethane-4,4'-diisocyanate (101-68-8)	
IARC group	3 - Not classifiable

Reproductive toxicity	: Not classified
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.
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Symptoms/injuries after skin contact	: Irritation. May cause an allergic skin reaction.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
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polymethylene polyphenyl isocyanate (9016-87-9)	
LC50 other aquatic organisms 1	> 1000 mg/l (96 h, Literature study)

diphenylmethane-2,4'-diisocyanate (5873-54-1)	
LC50 fish 1	> 1000 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Brachydanio rerio, Static system, Fresh water, Read-across, Nominal concentration)
EC50 Daphnia 1	> 1000 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 24 h, Daphnia magna, Static system, Fresh water, Read-across, Nominal concentration)

methylenediphenyl diisocyanate, isomer mixture (26447-40-5)	
LC50 fish 1	> 1000 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Brachydanio rerio, Static system, Fresh water, Read-across, Lethal)
EC50 Daphnia 1	> 1000 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 24 h, Daphnia magna, Static system, Fresh water, Read-across)

12.2. Persistence and degradability

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polymethylene polyphenyl isocyanate (9016-87-9)	
Persistence and degradability	Not readily biodegradable in water.
diphenylmethane-2,4'-diisocyanate (5873-54-1)	
Persistence and degradability	Not readily biodegradable in water.
methylenediphenyl diisocyanate, isomer mixture (26447-40-5)	
Persistence and degradability	Contains non readily biodegradable component(s).

12.3. Bioaccumulative potential

polymethylene polyphenyl isocyanate (9016-87-9)	
BCF fish 1	1 (Pisces, Literature study)
Log Pow	10.46 (Calculated, KOWWIN)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
diphenylmethane-2,4'-diisocyanate (5873-54-1)	
BCF fish 1	92 - 200 (OECD 305: Bioconcentration: Flow-Through Fish Test, 28 day(s), Cyprinus carpio, Flow-through system, Fresh water, Read-across, GLP)
Log Pow	4.51 (Conclusion by analogy, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 22 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
methylenediphenyl diisocyanate, isomer mixture (26447-40-5)	
BCF fish 1	92 (OECD 305: Bioconcentration: Flow-Through Fish Test, 28 day(s), Cyprinus carpio, Flow-through system, Fresh water, Read-across, GLP)
Log Pow	4.51 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 22 °C)
Bioaccumulative potential	Does not contain bioaccumulative component(s).

12.4. Mobility in soil

polymethylene polyphenyl isocyanate (9016-87-9)	
Log Koc	9.078 - 10.597 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Adsorbs into the soil.
diphenylmethane-2,4'-diisocyanate (5873-54-1)	
Ecology - soil	No (test)data on mobility of the substance available.
methylenediphenyl diisocyanate, isomer mixture (26447-40-5)	
Ecology - soil	No (test)data on mobility of the components available.

12.5. Other adverse effects

Effect on ozone layer	:
Effect on the global warming	: No known ecological damage caused by this product.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
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SECTION 14: Transport information

In accordance with DOT
Not regulated for transport

Additional information

Other information	: No supplementary information available.
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ADR

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

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SECTION 15: Regulatory information

15.1. US Federal regulations

polymethylene polyphenyl isocyanate (9016-87-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory
Subject to reporting requirements of United States SARA Section 313

EPA TSCA Regulatory Flag

XU - XU - indicates a substance exempt from reporting under the Inventory Update Reporting Rule, i.e., Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C)).

4,4'-methylenediphenyl diisocyanate, diphenylmethane-4,4'-diisocyanate (101-68-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory
Subject to reporting requirements of United States SARA Section 313

RQ (Reportable quantity, section 304 of EPA's List of Lists)

5000 lb

diphenylmethane-2,4'-diisocyanate (5873-54-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

15.2.2. National regulations

15.3. US State regulations

polymethylene polyphenyl isocyanate (9016-87-9)

U.S. - New Jersey - Right to Know Hazardous Substance List

4,4'-methylenediphenyl diisocyanate, diphenylmethane-4,4'-diisocyanate (101-68-8)

U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

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Full text of H-phrases:

Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Carc. 2	Carcinogenicity, Category 2
Resp. Sens. 1	Sensitisation — Respiratory, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Sensitisation — Skin, Category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H332	Harmful if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation
H351	Suspected of causing cancer
H373	May cause damage to organs through prolonged or repeated exposure

ZLF-PMS 364 CUSTOM TEMPLATE

All information contained in this MSDS is based on current technical data believed to be accurate and reliable. Additions of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since these conditions are outside our control, we furnish this MSDS without any express or implied warranties.