

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

1.1. Product identifier

Trade name : Aluminum Roof Coating - Fibered 2#
Product code : 215G2
Synonyms : benzene, dimethyl- / dimethylbenzenes, 23°C=<F.P.<=60°C / dimethylbenzols, 23°C=<F.P.<=60°C / methyltoluenes, 23°C=<F.P.<=60°C / xylene / Xylenes / xylols, 23°C=<F.P.<=60°C

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

Use of the substance/mixture : Do not use as an underlayment
Use of the substance/mixture : Coating: component

1.3. Details of the supplier of the safety data sheet

ALCO PRODUCTS, LLC
580 St. Jean
Detroit, MI 48214
T (313) 823-7500 - F (313) 331-4726
info@alco-products.com - www.alco-products.com

1.4. Emergency telephone number

Emergency number : (800) 424-9300 CHEMTREC

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

| | |
|---------------|------|
| Flam. Liq. 2 | H225 |
| Skin Irrit. 2 | H315 |
| Muta. 1B | H340 |
| Carc. 1B | H350 |

Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

Highly flammable liquid and vapor
Causes skin irritation
May cause genetic defects
May cause cancer

Precautionary statements (GHS-US) :

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Keep away from heat/sparks/open flames/hot surfaces. - No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use explosion-proof electrical/ventilating/lighting/... equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Wash ... thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection
If on skin: Wash with plenty of water/...
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
If exposed or concerned: Get medical advice/attention
Specific treatment (see ... on this label)
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash before reuse

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In case of fire: Use ... to extinguish
Store in a well-ventilated place. Keep cool
Store locked up
Dispose of contents/container to ...

2.3. Other hazards

Other hazards not contributing to the classification : None under normal conditions.

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 | % | Classification (GHS-US) |
|----------------------------------|--------------------|--------------|--|
| xylene, mixture of isomers | (CAS No) 1330-20-7 | 25.3 - 40.45 | Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 |
| 1,2,4-trimethylbenzene | (CAS No) 95-63-6 | 3.3 - 5.8 | Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 STOT SE 3, H335 Aquatic Chronic 2, H411 |
| turpentine substitute, F.P.<23°C | (CAS No) 8052-41-3 | 0.1 - 1 | Flam. Liq. 2, H225 Muta. 1B, H340 Carc. 1B, H350 STOT RE 1, H372 Asp. Tox. 1, H304 |
| cumene | (CAS No) 98-82-8 | 0.15 - 0.225 | Flam. Liq. 3, H226 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 |

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Call a physician immediately.
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact : Wash contaminated clothing before reuse. Wash with plenty of soap and water.
First-aid measures after eye contact : Immediately rinse with water for a prolonged period while holding the eyelids wide open.
First-aid measures after ingestion : Get immediate medical advice/attention. Do not induce vomiting.

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

No additional information available

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 : Carbon dioxide. Dry powder. Foam.
Unsuitable extinguishing media : Water.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Heating increases the fire hazard.
Reactivity : Reacts exothermically with water (moisture).

5.3. Advice for firefighters

Firefighting instructions : When cooling/extinguishing: no water in the substance.
Protection during firefighting : Do not attempt to take action without suitable protective equipment.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Do not allow contact with water. No flames, no sparks. Eliminate all sources of ignition.

6.1.1. For non-emergency personnel

Protective equipment : Gloves. Face-shield. Protective clothing. Large spills/in enclosed spaces: compressed air apparatus. See "Material-Handling" to select protective clothing.

Emergency procedures : Mark the danger area. Stop engines and no smoking. No naked flames or sparks. Spark- and explosionproof appliances and lighting equipment. Wash contaminated clothes. Large spills/in confined spaces: consider evacuation. In case of reactivity hazard: consider evacuation.

6.1.2. For emergency responders

Protective equipment : Protective gloves. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Stop leak if safe to do so. Stop release. Ventilate area.

6.2. Environmental precautions

Prevent soil and water pollution. Prevent spreading in sewers.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage. Consult "Material-handling" to select material of containers. Dam up the solid spill.

Methods for cleaning up : Take up liquid spill into a non combustible material e.g.: sand, earth, vermiculite or powdered limestone. Scoop absorbed substance into closing containers. Carefully collect the spill/leftovers. Damaged/cooled tanks must be emptied. Do not use compressed air for pumping over spills. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Do not use compressed air for pumping over. Use spark-/explosionproof appliances and lighting system. Take precautions against electrostatic charges. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Observe normal hygiene standards. Keep container tightly closed. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

7.2. Conditions for safe storage, including any incompatibilities

Heat-ignition : KEEP SUBSTANCE AWAY FROM: heat sources. ignition sources.

Prohibitions on mixed storage : KEEP SUBSTANCE AWAY FROM: combustible materials. oxidizing agents. (strong) acids. highly flammable materials. halogens.

Storage area : Store in a cool area. Ventilation at floor level. Fireproof storeroom. Provide for a tub to collect spills. Provide the tank with earthing. Meet the legal requirements.

Special rules on packaging : SPECIAL REQUIREMENTS: closing. clean. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.

Packaging materials : SUITABLE MATERIAL: No data available. MATERIAL TO AVOID: No data available.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Aluminum Roof Coating - Fibered 2# | | |
|--|------------------|---------|
| ACGIH | Not applicable | |
| OSHA | Not applicable | |
| xylene, mixture of isomers (1330-20-7) | | |
| ACGIH | ACGIH TWA (ppm) | 100 ppm |
| ACGIH | ACGIH STEL (ppm) | 100 ppm |

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| xylene, mixture of isomers (1330-20-7) | | |
|--|----------------|--|
| OSHA | Not applicable | |

| turpentine substitute, F.P.<23°C (8052-41-3) | | |
|--|----------------|--|
| ACGIH | Not applicable | |
| OSHA | Not applicable | |

| 1,2,4-trimethylbenzene (95-63-6) | | |
|----------------------------------|------------------|--------|
| ACGIH | ACGIH TWA (ppm) | 25 ppm |
| ACGIH | ACGIH STEL (ppm) | 25 ppm |
| OSHA | Not applicable | |

| cumene (98-82-8) | | |
|------------------|------------------|--------|
| ACGIH | ACGIH TWA (ppm) | 50 ppm |
| ACGIH | ACGIH STEL (ppm) | 50 ppm |
| OSHA | Not applicable | |

8.2. Exposure controls

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|---|
| Physical state | : Liquid |
| Color | : Mixture contains one or more component(s) which have the following colour(s): Colourless to light yellow, Colourless, White to light yellow, White to off-white, White to yellow-grey |
| Odor | : 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): Pleasant odour, Aromatic odour, Characteristic odour, Irritating/pungent odour, Mild odour, Odourless |
| Odor threshold | : No data available |
| pH | : No data available |
| 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 | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : No data available |
| Vapor pressure | : No data available |
| Relative vapor density at 20 °C | : No data available |
| Relative density | : No data available |
| Solubility | : Water: Solubility in water of component(s) of the mixture : • : < 0.02 g/100ml • : 0.0060 g/100ml • : 0.0020 g/100ml • : < 0.1 g/100ml • : 0.005 g/100ml • : 0.01 g/100ml • : < 0.1 g/100ml • : < 0.1 g/100ml |
| 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 |
| Oxidizing properties | : No data available |
| Explosive limits | : No data available |

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9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts exothermically with water (moisture).

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Heating may cause a fire.

10.4. Conditions to avoid

No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

Strong acids.

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 : Not classified

| xylene, mixture of isomers (1330-20-7) | |
|---|---|
| LD50 oral rat | 3523 - 8600 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Literature study; 3523 mg/kg bodyweight; Rat; OECD 401: Acute Oral Toxicity; Experimental value; >4000 mg/kg bodyweight; Rat; OECD 401: Acute Oral Toxicity; Experimental value) |
| LD50 dermal rabbit | > 4200 mg/kg body weight (Rabbit; Experimental value; OECD 402: Acute Dermal Toxicity) |
| LC50 inhalation rat (mg/l) | 29 mg/l/4h (Rat; Experimental value; 27.57 mg/l/4h; Rat; Experimental value) |
| ATE US (oral) | 3523.000 mg/kg body weight |
| ATE US (dermal) | 1100.000 mg/kg body weight |
| ATE US (gases) | 4500.000 ppmV/4h |
| ATE US (vapors) | 11.000 mg/l/4h |
| ATE US (dust, mist) | 1.500 mg/l/4h |

| 1,2,4-trimethylbenzene (95-63-6) | |
|---|---|
| LD50 oral rat | > 5000 mg/kg (Rat; Equivalent or similar to OECD 401; Literature; 6000 mg/kg bodyweight; Rat; Experimental value) |
| LD50 dermal rat | > 3440 mg/kg (Rat; Read-across; OECD 402: Acute Dermal Toxicity) |
| LC50 inhalation rat (mg/l) | 18 mg/l/4h (Rat) |
| ATE US (gases) | 4500.000 ppmV/4h |
| ATE US (vapors) | 18.000 mg/l/4h |
| ATE US (dust, mist) | 1.500 mg/l/4h |

| cumene (98-82-8) | |
|----------------------------|---|
| LD50 oral rat | > 2000 mg/kg (Rat; Other; Literature study; 4000 mg/kg bodyweight; Rat; Other; Inconclusive, insufficient data) |
| LD50 dermal rabbit | 10578 mg/kg (Rabbit; Literature study; Other) |
| LC50 inhalation rat (mg/l) | 40 mg/l/4h (Rat; Literature study) |
| LC50 inhalation rat (ppm) | 8000 ppm/4h (Rat; Literature study) |
| ATE US (dermal) | 10578.000 mg/kg body weight |
| ATE US (gases) | 8000.000 ppmV/4h |
| ATE US (vapors) | 40.000 mg/l/4h |
| ATE US (dust, mist) | 40.000 mg/l/4h |

Skin corrosion/irritation : Causes skin irritation.
Serious eye damage/irritation : Not classified
Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : May cause genetic defects.

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Carcinogenicity : May cause cancer.

| xylene, mixture of isomers (1330-20-7) | |
|---|----------------------|
| IARC group | 3 - Not classifiable |

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

| xylene, mixture of isomers (1330-20-7) | |
|---|---|
| LC50 fish 1 | 13.5 mg/l (96 h; Lepomis macrochirus; Lethal) |
| EC50 Daphnia 1 | 150 mg/l (24 h; Daphnia magna) |
| LC50 fish 2 | 3.77 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss) |
| EC50 Daphnia 2 | 7.4 mg/l (48 h; Daphnia magna) |
| Threshold limit algae 1 | 72 mg/l (336 h; Selenastrum capricornutum; Growth) |
| Threshold limit algae 2 | 10 mg/l (72 h; Skeletonema costatum) |

| turpentine substitute, F.P.<23°C (8052-41-3) | |
|--|--|
| LC50 fish 1 | 218 mg/l (Leuciscus idus; Static system) |

| 1,2,4-trimethylbenzene (95-63-6) | |
|---|---|
| LC50 fish 1 | 7.72 mg/l (96 h; Pimephales promelas; Lethal) |
| LC50 fish 2 | 18 mg/l (48 h; Oryzias latipes) |
| Threshold limit algae 1 | 1 mg/l (72 h; Algae) |
| Threshold limit algae 2 | 2.356 mg/l (96 h; Algae) |

| cumene (98-82-8) | |
|---|---|
| LC50 fish 1 | 2.7 mg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss); GLP) |
| LC50 other aquatic organisms 1 | 10 - 100 mg/l (96 h) |
| EC50 Daphnia 1 | 2.14 mg/l (48 h; Daphnia magna; GLP) |
| LC50 fish 2 | 5.1 mg/l (96 h; Poecilia reticulata) |
| EC50 Daphnia 2 | 8 - 43 mg/l (96 h; Gammarus sp.) |
| TLM fish 1 | 10 - 100,96 h; Pisces |
| TLM other aquatic organisms 1 | 10 - 100,96 h |
| Threshold limit other aquatic organisms 1 | 10 - 100,96 h; Protozoa |
| Threshold limit other aquatic organisms 2 | 3.017 mg/l (24 h) |
| Threshold limit algae 1 | 0.92 - 1.2, Algae |
| Threshold limit algae 2 | 2.6 mg/l (72 h; Selenastrum capricornutum) |

12.2. Persistence and degradability

| xylene, mixture of isomers (1330-20-7) | |
|---|--|
| Persistence and degradability | Readily biodegradable in water. Biodegradable in the soil. No (test) data on mobility of the substance available. Photolysis in the air. |

| 1,2,4-trimethylbenzene (95-63-6) | |
|---|--|
| Persistence and degradability | Not readily biodegradable in water. Forming sediments in water. Biodegradable in the soil. Adsorbs into the soil. Low potential for mobility in soil. Photodegradation in the air. |
| Chemical oxygen demand (COD) | 0.44 g O ₂ /g substance |

| cumene (98-82-8) | |
|---------------------------------|--|
| Persistence and degradability | Inherently biodegradable. Not readily biodegradable in water. Biodegradable in the soil. Low potential for adsorption in soil. |
| Biochemical oxygen demand (BOD) | 1.28 g O ₂ /g substance |
| Chemical oxygen demand (COD) | 2.42 g O ₂ /g substance |

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| cumene (98-82-8) | |
|-------------------------|------------------------------------|
| ThOD | 3.20 g O ₂ /g substance |
| BOD (% of ThOD) | 0.40 % ThOD |

12.3. Bioaccumulative potential

| xylene, mixture of isomers (1330-20-7) | |
|---|---|
| BCF fish 1 | 15 8 weeks; Salmo gairdneri (Oncorhynchus mykiss) |
| BCF fish 2 | 7 - 26 (8 weeks; Oncorhynchus mykiss) |
| Log Pow | 3.2 (Conclusion by analogy; 20 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). |

| 1,2,4-trimethylbenzene (95-63-6) | |
|---|--|
| BCF fish 1 | 31 - 275 (8 weeks; Cyprinus carpio) |
| Log Pow | 3.63 - 4.09 (Experimental value) |
| Bioaccumulative potential | Potential for bioaccumulation (4 ≥ Log Kow ≤ 5). |

| cumene (98-82-8) | |
|-------------------------------|---|
| BCF fish 1 | 35.5 (Carassius auratus) |
| BCF other aquatic organisms 1 | 94.69 |
| Log Pow | 3.66 (Experimental value; 3.55; Experimental value; OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method; 23 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). |

12.4. Mobility in soil

| xylene, mixture of isomers (1330-20-7) | |
|---|---|
| Ecology - soil | May be harmful to plant growth, blooming and fruit formation. |

| 1,2,4-trimethylbenzene (95-63-6) | |
|---|---|
| Surface tension | 0.029 N/m |
| Ecology - soil | May be harmful to plant growth, blooming and fruit formation. |

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.

SECTION 14: Transport information

In accordance with DOT
Transport document description : UN1307 Xylenes, 3, III
UN-No.(DOT) : UN1307
Proper Shipping Name (DOT) : Xylenes
Department of Transportation (DOT) Hazard Classes : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Hazard labels (DOT) : 3 - Flammable liquid



Packing group (DOT) : III - Minor Danger

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| | |
|--|--|
| DOT Special Provisions (49 CFR 172.102) | : B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable. IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T2 - 1.5 178.274(d)(2) Normal..... 178.275(d)(3) TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / 1 + a (tr - tf)$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. |
| DOT Packaging Exceptions (49 CFR 173.xxx) | : 150 |
| DOT Packaging Non Bulk (49 CFR 173.xxx) | : 203 |
| DOT Packaging Bulk (49 CFR 173.xxx) | : 242 |
| DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) | : 60 L |
| DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) | : 220 L |
| DOT Vessel Stowage Location | : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel. |

Additional information

Other information : No supplementary information available.

ADR

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

turpentine substitute, F.P.<23°C (8052-41-3)

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

turpentine substitute, F.P.<23°C (8052-41-3)

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

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SECTION 16: Other information

Full text of H-phrases:

| | |
|---------------------------|--|
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal) Category 4 |
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhalation) Category 4 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment - Chronic Hazard Category 2 |
| Asp. Tox. 1 | Aspiration hazard Category 1 |
| Carc. 1B | Carcinogenicity Category 1B |
| Flam. Liq. 2 | Flammable liquids Category 2 |
| Flam. Liq. 3 | Flammable liquids Category 3 |
| Muta. 1B | Germ cell mutagenicity Category 1B |
| Skin Irrit. 2 | Skin corrosion/irritation Category 2 |
| STOT RE 1 | Specific target organ toxicity (repeated exposure) Category 1 |
| STOT SE 3 | Specific target organ toxicity (single exposure) Category 3 |
| H225 | Highly flammable liquid and vapor |
| H226 | Flammable liquid and vapor |
| H304 | May be fatal if swallowed and enters airways |
| H312 | Harmful in contact with skin |
| H315 | Causes skin irritation |
| H332 | Harmful if inhaled |
| H335 | May cause respiratory irritation |
| H340 | May cause genetic defects |
| H350 | May cause cancer |
| H372 | Causes damage to organs through prolonged or repeated exposure |
| H411 | Toxic to aquatic life with long lasting effects |

NFPA health hazard

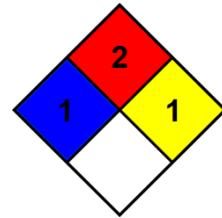
: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA fire hazard

: 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.

NFPA reactivity

: 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.



SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product