

Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS) Issue date: 4/7/2025 Version: 1.0

SECTION 1 Identification

1.1. Product identifier

Product form : Mixture

Trade name : Azo-Core TBF 10-353

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Recommended use : Thermal barrier polymer (Part B)

1.4. Supplier's details

Azon USA Inc. 2204 Ravine Rd Kalamazoo, Michigan 49004 USA

T 269-385-5942

1.5. Emergency phone number

Emergency number

: For Hazardous Materials or Dangerous Goods Incident Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night: 1-800-424-9300 (Toll Free, USA) / 703-527-3887 (Virginia, USA) CCN 2189

SECTION 2 Hazard Identification

2.1. Classification of the substance or mixture

GHS US classification

Not classified

2.2. Label elements

GHS US labeling

No labeling applicable

2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

2.4. Hazards not otherwise classified

No additional information available

2.5. Unknown acute toxicity

No additional information available

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures

| Name | Product identifier | % | GHS US classification |
|--------------------------|---------------------|-------|-----------------------|
| Glycerol propylene oxide | CAS-No.: 25791-96-2 | 45-75 | Not classified |
| Sucrose, propylene oxide | CAS-No.: 9049-71-2 | 15-40 | Not classified |
| Dipropylene glycol | CAS-No.: 25265-71-8 | 10-15 | Not classified |

Full text of hazard classes and H-statements: see section 16

SECTION 4 First aid measures

4.1. Description of necessary first-aid measures

First-aid measures general : First aider: Pay attention to self-protection. Never give anything by mouth to an unconscious person. Give artificial respiration if necessary. Induce artificial respiration with mask fitted with one-way valve or other suitable device but not mouth-to-mouth. Call a physician immediately.

First-aid measures after inhalation If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for

breathing. If experiencing respiratory symptoms: Call a poison center or a doctor.

First-aid measures after skin contact Remove affected clothing and wash all exposed skin areas with mild soap and water, followed by warm water rinse. If skin irritation occurs: Get medical advice/attention. Wash contaminated

clothing before reuse.

First-aid measures after eye contact Rinse eyes with water as a precaution. Remove contact lenses, if present and easy to do.

Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion Rinse mouth. Do NOT induce vomiting. If vomiting occurs, the head should be kept low so that

vomit does not enter the lungs. If you feel unwell, seek medical advice.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects after inhalation : Not expected to present a significant hazard under anticipated conditions of normal use. Symptoms/effects after skin contact Not expected to present a significant skin hazard under anticipated conditions of normal use.

Symptoms/effects after eye contact

Not expected to present a significant eye contact hazard under anticipated conditions of normal

Symptoms/effects after ingestion Not expected to present a significant ingestion hazard under anticipated conditions of normal

use.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Other medical advice or treatment : IF exposed or concerned: Get medical advice/attention.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Use extinguishing agent suitable for surrounding fire. Dry chemical, CO2, or water spray or

regular foam.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Fire hazard : No fire hazard.

Hazardous decomposition products in case of fire : Toxic fumes may be released. Carbon dioxide. Carbon monoxide. Nitrogen oxides.

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5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Fight fire from safe dista

: Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. Move containers from fire area if it can be done without personal risk. Use water spray or fog for cooling exposed containers. Large fires: Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Withdraw immediately in case of rising sound from venting devices or discoloration from tank. ALWAYS stay away from tanks engulfed in fire. For a massive fire, use unmanned hose holders or monitor nozzles, or withdraw from the area and allow fire to burn. Prevent fire-fighting water from

entering environment.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid all personal contact including breathing in the mist, spray, vapors. Do not take actions involving personal risks. Absorb spillage to prevent material-damage. Stop leak if safe to do so.

Notify authorities if product enters sewers or public waters.

For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : Evacuate the danger area. If outdoors, move to an area upwind of the danger area. If possible

without taking personal risks, remove ignition sources, ventilate area. Prevent other non-

emergency personnel from entering the danger area.

For emergency responders

Protective equipment : Wear the recommended personal protective equipment. Do not attempt to take action without

suitable protective equipment. For further information refer to section 8: "Exposure

controls/personal protection".

Emergency procedures : Evacuate personnel to a safe area. Do not touch spilled material. Stop leak if safe to do so.

Environmental precautions : Avoid release to the environment.

6.2. Methods and materials for containment and cleaning up

For containment : Contain with non-combustible inert absorbent. Contain any spills with dikes or absorbents to

prevent migration and entry into sewers or streams. Stop leak, if possible without risk. Remove

all sources of ignition.

Methods for cleaning up : Take up in non-combustible inert absorbent and place into container for disposal. Decontaminate

surfaces and equipment with water and detergent. Notify authorities if product enters sewers or public waters. Dispose of collected material as soon as possible in accordance with applicable

local/regional/national/international regulations.

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

For further information refer to section 8: "Exposure controls/personal protection", For further information refer to section 13

SECTION 7 Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Use only outdoors or in a well-ventilated area. Wear

personal protective equipment. Avoid breathing mist, spray, vapors. Avoid contact with skin, eyes and clothing. Keep away from heat, hot surfaces, sparks, open flames, and other ignition

sources. No smoking. Take precautionary measures against static discharge.

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Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including incompatibilities

Storage conditions : Store in a cool, dry and well-ventilated area away from incompatible substances. Keep away

from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Keep

container closed when not in use.

Incompatible materials : Reacts with isocyanates. Strong oxidizing agents. Strong alkalis.

Heat-ignition : No flames, no sparks. Eliminate all sources of ignition.

Packaging materials : Store always product in container of same material as original container.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station. Handle in accordance with good industrial hygiene

and safety procedures. Emergency eye wash fountains and safety showers should be available

in the immediate vicinity of any potential exposure.

Environmental exposure controls : Avoid release to the environment. Take measures to reduce or limit air emissions and releases to soil and the aquatic environment.

8.3. Individual protection measures, such as personal protective equipment

Personal protective equipment:

Personal protective equipment should be chosen according to national standards and in discussion with the supplier of the protective equipment. Wear recommended personal protective equipment.

Hand protection:

Wear protective gloves. Chemically impervious gloves as described by OSHA's hand protection regulations in 29 CFR 1910.138

Eye protection:

Wear safety glasses which protect from splashes

Skin and body protection:

Wear suitable protective clothing. Body protection should be chosen depending on activity and possible exposure

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Personal protective equipment symbol(s):









SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state : Liquid

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Color : Black Odor : Slight

Odor threshold : No data available : No data available pН : No data available Melting point : No data available Freezing point : No data available Boiling point $: > 93 \, ^{\circ}\text{C} / 200 \, ^{\circ}\text{F}$ Flash point Flammability (solid, gas) : No data available : No data available Vapor pressure : No data available

Relative density : 1.05

Solubility : Slightly soluble in: Water.

Partition coefficient n-octanol/water (Log Pow) : No data available Auto-ignition temperature : No data available Decomposition temperature : No data available Viscosity, kinematic : No data available

: 400 - 500 cP @ 25 °C / 77 °F Viscosity, dynamic

Explosion limits : No data available Particle characteristics No data available

Glycerol propylene oxide

Relative vapor density at 20°C

Particle characteristics No data available

Sucrose, propylene oxide

Particle characteristics No data available

Dipropylene glycol

Particle characteristics No data available

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

SECTION 10 Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition. Incompatible materials.

10.5. Incompatible materials

Strong oxidizing agents. Strong alkalis. Isocyanates.

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10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition generates: Carbon dioxide. Carbon monoxide. Nitrogen oxides.

SECTION 11 Toxicological information

| 11.1. | Information | on toxico | logical | ettects |
|-------|-------------|-----------|---------|---------|

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

| GIV | cerol | nrony | /lene | oxide |
|-----|-------|-------|-------|-------|
| | | | | |

| LD50 oral rat | > 2000 mg/kg body weight |
|-----------------|--------------------------|
| LD50 dermal rat | > 2000 mg/kg body weight |

Sucrose, propylene oxide

| LD50 oral rat | > 2000 mg/kg |
|--------------------|--------------|
| LD50 dermal rabbit | > 5000 mg/kg |

Dipropylene glycol

| LD50 oral rat | 14850 mg/kg |
|-----------------------|--------------------------|
| LD50 dermal rabbit | > 5010 mg/kg body weight |
| LC50 Inhalation - Rat | > 2.34 mg/l air |

Skin corrosion/irritation : Not classified

Glycerol propylene oxide

| На | 7 |
|----|---|
| рп | 1 |

Dipropylene glycol

| Additional information | Not irritating to rabbits on cutaneous application |
|------------------------|--|
|------------------------|--|

Serious eye damage/irritation : Not classified

Glycerol propylene oxide

pH 7

Dipropylene glycol

| Additional information | Not irritating to rabbits on ocular application |
|-----------------------------|---|
| / tagita in a marina and in | The minding to rapping an obtain appropriate. |

Respiratory or skin sensitization : Not classified

Dipropylene glycol

Skin sensitization, human Not sensitive

Germ cell mutagenicity: Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

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| Glycerol propylene oxide | |
|--|---|
| NOAEL (animal/male, F0/P) | ≥ 1000 mg/kg body weight |
| NOAEL (animal/female, F0/P) | 300 mg/kg body weight |
| Sucrose, propylene oxide | |
| NOAEL (animal/male, F0/P) | ≥ 1000 mg/kg body weight |
| NOAEL (animal/female, F0/P) | 300 mg/kg body weight |
| STOT-single exposure STOT-repeated exposure | : Not classified : Not classified |
| Glycerol propylene oxide | |
| NOAEL (oral,rat,90 days) | ≥ 1000 mg/kg body weight |
| Sucrose, propylene oxide | |
| NOAEL (oral,rat,90 days) | ≥ 1000 mg/kg body weight |
| Aspiration hazard | : Not classified |
| Azo-Core TBF 10-353 | |
| Viscosity, kinematic | No data available |
| Glycerol propylene oxide | |
| Viscosity, kinematic | No data available |
| Sucrose, propylene oxide | |
| Viscosity, kinematic | No data available |
| Dipropylene glycol | |
| Viscosity, kinematic | No data available |
| Symptoms/effects after inhalation Symptoms/effects after skin contact Symptoms/effects after eye contact | Not expected to present a significant hazard under anticipated conditions of normal use. Not expected to present a significant skin hazard under anticipated conditions of normal use. Not expected to present a significant eye contact hazard under anticipated conditions of normal use. |
| Symptoms/effects after ingestion | Not expected to present a significant ingestion hazard under anticipated conditions of normal use. |

SECTION 12 Ecological information

12.1. Ecotoxicity

Hazardous to the aquatic environment, short–term : Harmful to aquatic life

(acute)

Hazardous to the aquatic environment, long-term : Harmful to aquatic life with long lasting effects

(chronic)

| Glycerol propylene oxide | |
|--------------------------|-------------|
| LC50 - Fish [1] | 218000 mg/l |
| EC50 - Crustacea [1] | > 100 mg/l |
| EC50 72h - Algae [1] | > 100 mg/l |
| EC50 96h - Algae [1] | 103000 mg/l |
| LOEC (chronic) | > 10 mg/l |

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| Glycerol propylene oxide | |
|--------------------------|-------------|
| NOEC (chronic) | ≥ 10 mg/l |
| Sucrose, propylene oxide | |
| LC50 - Fish [1] | 4220 mg/l |
| EC50 - Crustacea [1] | 9890 mg/l |
| LOEC (chronic) | > 10 mg/l |
| NOEC (chronic) | ≥ 10 mg/l |
| Dipropylene glycol | |
| LC50 - Fish [1] | 46500 mg/l |
| EC50 - Crustacea [1] | > 100 mg/l |
| LC50 - Fish [2] | > 1000 mg/l |
| EC50 72h - Algae [1] | > 100 mg/l |
| EC50 96h - Algae [1] | 1064.8 mg/l |

12.2. Persistence and degradability

| Azo-Core TBF 10-353 | | | | |
|---|------------------------|--|--|--|
| Persistence and degradability | Not rapidly degradable | | | |
| Glycerol propylene oxide | | | | |
| Persistence and degradability | Not rapidly degradable | | | |
| | | | | |
| Sucrose, propylene oxide | | | | |
| Sucrose, propylene oxide Persistence and degradability | Not rapidly degradable | | | |
| | Not rapidly degradable | | | |

12.3. Bioaccumulative potential

| Sucrose, propylene oxide | | | |
|---|--------------|--|--|
| Partition coefficient n-octanol/water (Log Pow) | -3.6 – -3.25 | | |
| Dipropylene glycol | | | |
| Partition coefficient n-octanol/water (Log Pow) | -1.07 | | |

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Ozone : Not classified

Fluorinated greenhouse gases : No

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SECTION 13 Disposal considerations

Regional waste regulation : Disposal must be done according to official regulations.

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

Sewage disposal recommendations : Disposal must be done according to official regulations.

Product/Packaging disposal recommendations : Disposal must be done according to official regulations. Dispose of this material and its container

at hazardous or special waste collection point. Refer to all applicable national, international and

local regulations or provisions.

Additional information : Do not re-use empty containers. Ecological waste information : Avoid release to the environment.

SECTION 14 Transport information

In accordance with DOT / TDG / IMDG / IATA

| DOT | TDG | IMDG | IATA | |
|--|---------------|---------------|---------------|--|
| 14.1. UN number | | | | |
| Not regulated for transport | | | | |
| 14.2. Proper Shipping Name | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | |
| 14.3. Transport hazard class(es) | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | |
| 14.4. Packing group | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | |
| 14.5. Environmental hazards | | | | |
| | | Not regulated | | |
| No supplementary information available | | | | |

14.6. Transport in bulk

Not applicable

14.7. Special precautions for user

DOT

Not regulated

TDG

Not regulated

IMDG

Not regulated

IATA

Not regulated

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SECTION 15 Regulatory information

15.1. Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

CANADA

Glycerol propylene oxide (25791-96-2)

Listed on the Canadian DSL (Domestic Substances List)

Sucrose, propylene oxide (9049-71-2)

Listed on the Canadian DSL (Domestic Substances List)

Dipropylene glycol (25265-71-8)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

Dipropylene glycol (25265-71-8)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16 Other information

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

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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.