



# Azo-Core TBF 10-352

## 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 10-352

#### 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

# Azo-Core TBF 10-352

## Safety Data Sheet

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

### 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 use.
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.
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## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Use extinguishing agent suitable for surrounding fire. Dry chemical, CO <sub>2</sub> , 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.

# Azo-Core TBF 10-352

## Safety Data Sheet

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

### 5.3. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : 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.

# Azo-Core TBF 10-352

## Safety Data Sheet

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

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.

<b>Hand protection:</b>
Wear protective gloves. Chemically impervious gloves as described by OSHA's hand protection regulations in 29 CFR 1910.138
<b>Eye protection:</b>
Wear safety glasses which protect from splashes
<b>Skin and body protection:</b>
Wear suitable protective clothing. Body protection should be chosen depending on activity and possible exposure
<b>Respiratory protection:</b>
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

# Azo-Core TBF 10-352

## Safety Data Sheet

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

Color	: Black
Odor	: Slight
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 93 °C / 200 °F
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20°C	: 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
Viscosity, dynamic	: 400 – 500 cP @ 25 °C / 77 °F
Explosion limits	: No data available
Particle characteristics	: No data available

### Glycerol propylene oxide

Particle characteristics	No data available
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### Sucrose, propylene oxide

Particle characteristics	No data available
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### Dipropylene glycol

Particle characteristics	No data available
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## 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.

# Azo-Core TBF 10-352

## Safety Data Sheet

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

### 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 toxicological effects

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

#### Glycerol propylene 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

pH	7
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#### Dipropylene glycol

Additional information	Not irritating to rabbits on cutaneous application
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Serious eye damage/irritation : Not classified

#### Glycerol propylene oxide

pH	7
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#### Dipropylene glycol

Additional information	Not irritating to rabbits on ocular application
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Respiratory or skin sensitization : Not classified

#### Dipropylene glycol

Skin sensitization, human	Not sensitive
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Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

# Azo-Core TBF 10-352

## Safety Data Sheet

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

<b>Glycerol propylene oxide</b>	
NOAEL (animal/male, F0/P)	≥ 1000 mg/kg body weight
NOAEL (animal/female, F0/P)	300 mg/kg body weight
<b>Sucrose, propylene oxide</b>	
NOAEL (animal/male, F0/P)	≥ 1000 mg/kg body weight
NOAEL (animal/female, F0/P)	300 mg/kg body weight
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
<b>Glycerol propylene oxide</b>	
NOAEL (oral,rat,90 days)	≥ 1000 mg/kg body weight
<b>Sucrose, propylene oxide</b>	
NOAEL (oral,rat,90 days)	≥ 1000 mg/kg body weight
Aspiration hazard	: Not classified
<b>Azo-Core TBF 10-352</b>	
Viscosity, kinematic	No data available
<b>Glycerol propylene oxide</b>	
Viscosity, kinematic	No data available
<b>Sucrose, propylene oxide</b>	
Viscosity, kinematic	No data available
<b>Dipropylene glycol</b>	
Viscosity, kinematic	No data available
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 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 (acute)	: Harmful to aquatic life
Hazardous to the aquatic environment, long-term (chronic)	: Harmful to aquatic life with long lasting effects

<b>Glycerol propylene oxide</b>	
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

# Azo-Core TBF 10-352

## Safety Data Sheet

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

<b>Glycerol propylene oxide</b>	
NOEC (chronic)	≥ 10 mg/l
<b>Sucrose, propylene oxide</b>	
LC50 - Fish [1]	4220 mg/l
EC50 - Crustacea [1]	9890 mg/l
LOEC (chronic)	> 10 mg/l
NOEC (chronic)	≥ 10 mg/l
<b>Dipropylene glycol</b>	
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

<b>Azo-Core TBF 10-352</b>	
Persistence and degradability	Not rapidly degradable
<b>Glycerol propylene oxide</b>	
Persistence and degradability	Not rapidly degradable
<b>Sucrose, propylene oxide</b>	
Persistence and degradability	Not rapidly degradable
<b>Dipropylene glycol</b>	
Persistence and degradability	Readily biodegradable.

### 12.3. Bioaccumulative potential

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



# Azo-Core TBF 10-352

## Safety Data Sheet

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

### 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
<b>14.1. UN number</b>			
Not regulated for transport			
<b>14.2. Proper Shipping Name</b>			
Not regulated	Not regulated	Not regulated	Not regulated
<b>14.3. Transport hazard class(es)</b>			
Not regulated	Not regulated	Not regulated	Not regulated
<b>14.4. Packing group</b>			
Not regulated	Not regulated	Not regulated	Not regulated
<b>14.5. Environmental hazards</b>			
		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

# Azo-Core TBF 10-352

## Safety Data Sheet

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

### 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)

Issue date : 4/7/2025

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.