



# Azo Grout 445

## Safety Data Sheet

According to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)  
Issue date: 7/7/2025 Revision date: 6/12/2026 Supersedes: 7/7/2025 Version: 1.1

### SECTION 1 Identification

#### 1.1. Product identifier

Product form : Mixture  
Trade name : Azo Grout 445

#### 1.2. Other means of identification

No additional information available

#### 1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture : Soil stabilization  
Restrictions on use : All other uses not recommended above

#### 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  
Back-up Emergency Number: +1 703-741-5970 (Washington, DC)

### SECTION 2 Hazard Identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

Acute toxicity (inhalation:dust,mist), Category 4	H332	Harmful if inhaled.
Skin corrosion/irritation, Category 2	H315	Causes skin irritation.
Serious eye damage/eye irritation, Category 2	H319	Causes serious eye irritation.
Respiratory sensitization, Category 1	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitization, Category 1	H317	May cause an allergic skin reaction.
Carcinogenicity, Category 2	H351	Suspected of causing cancer.
Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	H335	May cause respiratory irritation.
Specific target organ toxicity — Repeated exposure, Category 2	H373	May cause damage to organs (respiratory system) through prolonged or repeated exposure (Inhalation).

Full text of H statements : see section 16

#### 2.2. Label elements

##### GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Danger

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Hazard statements (GHS US)	: H315 - Causes skin irritation H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation 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 (respiratory system) through prolonged or repeated exposure (Inhalation)
Precautionary statements (GHS US)	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist, spray, vapors, gas. Wash hands, forearms and face thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves, protective clothing, eye protection, face protection, and hearing protection. Wear respiratory protection. If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. Take off contaminated clothing and wash it before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention. If exposed or concerned: Get medical advice/attention. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

### 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
4,4'-Methylenediphenyl diisocyanate	CAS-No.: 101-68-8	10 – 15	Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373
Diphenylmethane Diisocyanate, isomers and homologues	CAS-No.: 9016-87-9	10 – 15	Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2B, H320 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335 STOT RE 2, H373
4,4'-Methylenediphenyl diisocyanate, oligomers	CAS-No.: 25686-28-6	1 – 3	Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2B, H320 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373
1,3-Bis(4-((4-isocyanatophenyl)methyl)phenyl)-1,3-diazetidone	CAS-No.: 17589-24-1	0.1 – 1	Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373
Methylene Diphenylisocyanate	CAS-No.: 26447-40-5	0.1 – 1	Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373
Isocyanic acid, polymethylenepolyphenylene ester, polymer with $\alpha$ -hydro- $\omega$ -hydroxypoly(oxy-1,2-ethanediyl)	CAS-No.: 57636-09-6	0.1 – 1	Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Resp. Sens. 1, H334 Skin Sens. 1B, H317 Carc. 2, H351 STOT SE 3, H335

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

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### 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. IF exposed or concerned: Get medical advice/attention.
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 the victim is unconscious: Lay in a stable manner on victim's side. Induce artificial respiration with mask fitted with one-way valve or other suitable device; not mouth-to-mouth. Call a physician immediately.
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 or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. 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 out with water. If the person is fully conscious, make him/her drink water (8 ounces / 240mL). Never give an unconscious person anything to drink. Do NOT induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Call a poison center/doctor/physician if you feel unwell.

#### 4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects after inhalation	: Harmful if inhaled. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause damage to organs (respiratory system) through prolonged or repeated exposure (Inhalation).
Symptoms/effects after skin contact	: May cause an allergic skin reaction. Irritation (itching, redness, blistering).
Symptoms/effects after eye contact	: Stinging, redness, itching, tears, blurred vision, swelling.
Symptoms/effects after ingestion	: Ingestion may cause nausea and vomiting.
Chronic symptoms	: Suspected of causing cancer.

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

Other medical advice or treatment	: Treat symptomatically.
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### SECTION 5: Fire-fighting measures

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

Suitable extinguishing media	: Dry chemical, CO <sub>2</sub> , dry sand, or alcohol-resistant foam. Use extinguishing agent suitable for surrounding fire.
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. Thermal decomposition generates: Carbon dioxide. Carbon monoxide. Nitrogen oxides. Isocyanates.

#### 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. Use extinguishing media appropriate for surrounding fire. 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.

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### 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, gas. Do not take actions involving personal risks. Stop leak if safe to do so. Absorb spillage to prevent material-damage. 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. Avoid contact with skin and eyes. Avoid breathing mist, spray, vapors, gas. Prevent other non-emergency personnel from entering the danger area.

##### For emergency responders

Protective equipment : Wear the recommended personal protective equipment.  
Emergency procedures : Evacuate unnecessary personnel. Ventilate spillage area. Stop leak if safe to do so. Remove all sources of ignition.

Environmental precautions : Do not let the product reach soil, drains, sewers, or surface and ground water.

#### 6.2. Methods and materials for containment and cleaning up

For containment : Stop leak, if possible without risk. Small spills: Contain with non-combustible inert absorbent. In case of large spillages: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Absorb spilled material with sand or earth.  
Methods for cleaning up : Take up in non-combustible inert absorbent and place into container for disposal. Contaminated absorbent material may pose the same hazard as the spilt product. Decontaminate surfaces and equipment with water and detergent. Until a sufficient level of dilution is achieved, the decontamination water may pose the same hazards as the product. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

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 : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid breathing mist, spray, vapors, gas. Avoid contact with skin, eyes and clothing. Take precautionary measures against static discharge.  
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace.

#### 7.2. Conditions for safe storage, including incompatibilities

Storage conditions : Store in a cool, dry and well-ventilated area away from incompatible substances. Store locked up. Store tightly closed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.  
Incompatible products : Oxidizing agents.  
Packaging materials : Always store product in container of same material as original container.

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### SECTION 8 Exposure controls/personal protection

#### 8.1. Control parameters

##### 4,4'-Methylenediphenyl diisocyanate (101-68-8)

###### USA - ACGIH® - Threshold Limit Values

Local name	Methylene bisphenyl isocyanate (MDI)
ACGIH® TLV® TWA	0.051 mg/m <sup>3</sup>
	0.005 ppm
Remark (ACGIH®)	TLV® Basis: Resp sens
Regulatory reference	ACGIH 2026

###### USA - OSHA - Occupational Exposure Limits

Local name	Methylene bisphenyl isocyanate (MDI)
OSHA PEL C	0.2 mg/m <sup>3</sup>
	0.02 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

###### USA - NIOSH - Occupational Exposure Limits

Local name	Methylene bisphenylisocyanate (MDI) [Diphenylmethane diisocyanate]
NIOSH REL C	0.2 mg/m <sup>3</sup>
	0.02 ppm
Regulatory reference (US-NIOSH)	OSHA Annotated Table Z-1 (NIOSH Pocket Guide to Chemical Hazards (NPG))

#### 8.2. Appropriate engineering controls

- Appropriate engineering controls : Ensure good ventilation of the work station. Use general ventilation, local exhaust ventilation, or process enclosure to keep the airborne concentrations below the permissible exposure limits.
- 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.

##### Materials for protective clothing:

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

##### Hand protection:

Wear protective gloves. Wear suitable gloves resistant to chemical penetration. Discard contaminated gloves and wash contaminated clothing before reuse

##### Eye protection:

Chemical goggles or safety glasses

##### Skin and body protection:

Body protection should be chosen depending on activity and possible exposure. Long sleeved protective clothing

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### 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
Appearance	: Clear liquid.
Color	: Amber Light brown
Odor	: No data available
Odor threshold	: No data available
pH	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 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	: 1.11 – 1.12 @ 25 °C/ 77 °F
Solubility	: Water: Slightly soluble
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	: 85 – 95 cP (25 °C/ 77 °F)
Explosion limits	: No data available
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

Incompatible materials.

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### 10.5. Incompatible materials

Oxidizing agents.

### 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) : Inhalation:dust,mist: Harmful if inhaled.

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ATE US (dust, mist)	1.857 mg/l/4h
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#### 4,4'-Methylenediphenyl diisocyanate

LD50 oral rat	9200 mg/kg body weight
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#### Diphenylmethane Diisocyanate, isomers and homologues

LD50 oral rat	49 g/kg
LD50 dermal rabbit	> 9400 mg/kg
LC50 Inhalation - Rat	490 mg/m <sup>3</sup>

#### Methylene Diphenylisocyanate

LD50 oral rat	> 2000 mg/kg body weight
LD50 oral	31600 mg/kg
LD50 dermal rabbit	> 9400 mg/kg
LC50 Inhalation - Rat	367.95 – 558.98 mg/m <sup>3</sup>
LC50 Inhalation - Rat (Dust/Mist)	0.369 mg/l/4h

#### 4,4'-Methylenediphenyl diisocyanate, oligomers

LD50 oral rat	> 5000 mg/kg body weight
LC50 Inhalation - Rat (Dust/Mist)	5 mg/l/4h

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Causes serious eye irritation.

#### Diphenylmethane Diisocyanate, isomers and homologues

Serious eye damage/irritation, rabbit	Mildly irritating
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Respiratory or skin sensitization : May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

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<b>Diphenylmethane Diisocyanate, isomers and homologues</b>	
Additional information	Reexposure to extremely low isocyanate concentrations may cause allergic respiratory reactions in individuals already sensitized. Asthma-like symptoms may include coughing, difficult breathing and a feeling of tightness in the chest. Occasionally, breathing difficulties may be life threatening.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Suspected of causing cancer.
<b>4,4'-Methylenediphenyl diisocyanate</b>	
IARC group	3 - Not classifiable
<b>Diphenylmethane Diisocyanate, isomers and homologues</b>	
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause respiratory irritation.
<b>4,4'-Methylenediphenyl diisocyanate</b>	
STOT-single exposure	May cause respiratory irritation.
<b>Diphenylmethane Diisocyanate, isomers and homologues</b>	
STOT-single exposure	May cause respiratory irritation.
<b>1,3-Bis(4-((4-isocyanatophenyl)methyl)phenyl)-1,3-diazetidione-2,4-dione</b>	
STOT-single exposure	May cause respiratory irritation.
<b>Methylene Diphenylisocyanate</b>	
STOT-single exposure	May cause respiratory irritation.
<b>4,4'-Methylenediphenyl diisocyanate, oligomers</b>	
STOT-single exposure	May cause respiratory irritation.
<b>Isocyanic acid, polymethylenepolyphenylene ester, polymer with a-hydro-ω-hydroxypoly(oxy-1,2-ethanediyl)</b>	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: May cause damage to organs (respiratory system) through prolonged or repeated exposure (Inhalation).
<b>4,4'-Methylenediphenyl diisocyanate</b>	
STOT-repeated exposure	May cause damage to organs (respiratory system) through prolonged or repeated exposure (Inhalation).
<b>Diphenylmethane Diisocyanate, isomers and homologues</b>	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
<b>1,3-Bis(4-((4-isocyanatophenyl)methyl)phenyl)-1,3-diazetidione-2,4-dione</b>	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
<b>Methylene Diphenylisocyanate</b>	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified

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Symptoms/effects after inhalation	: Harmful if inhaled. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause damage to organs (respiratory system) through prolonged or repeated exposure (Inhalation).
Symptoms/effects after skin contact	: May cause an allergic skin reaction. Irritation (itching, redness, blistering).
Symptoms/effects after eye contact	: Stinging, redness, itching, tears, blurred vision, swelling.
Symptoms/effects after ingestion	: Ingestion may cause nausea and vomiting.
Chronic symptoms	: Suspected of causing cancer.

## SECTION 12 Ecological information

### 12.1. Ecotoxicity

Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

#### 4,4'-Methylenediphenyl diisocyanate

NOEC (chronic)	≥ 10 mg/l
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#### Diphenylmethane Diisocyanate, isomers and homologues

NOEC chronic algae	1640
Additional information	MDI (methylene diphenyl diisocyanate) is considered a marine pollutant because it can react with water, forming hazardous mixtures of diisocyanates and amines, and ultimately producing inert, solid, insoluble polyurea.

#### Methylene Diphenylisocyanate

LC50 - Fish [1]	> 1000 mg/l
EC50 - Crustacea [1]	> 1000 mg/l
EC50 72h - Algae [1]	> 1640 mg/l
NOEC (chronic)	≥ 10 mg/l
NOEC chronic crustacea	≥ 10 mg/l

#### 4,4'-Methylenediphenyl diisocyanate, oligomers

NOEC (chronic)	≥ 10 mg/l
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### 12.2. Persistence and degradability

#### Azo Grout 445

Persistence and degradability	Not established.
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#### 4,4'-Methylenediphenyl diisocyanate

Persistence and degradability	Not rapidly degradable
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#### Diphenylmethane Diisocyanate, isomers and homologues

Persistence and degradability	0 % biodegradation Not readily biodegradable.
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#### 1,3-Bis(4-((4-isocyanatophenyl)methyl)phenyl)-1,3-diazetidione-2,4-dione

Persistence and degradability	Not rapidly degradable
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<b>Methylene Diphenylisocyanate</b>	
Persistence and degradability	Not rapidly degradable
<b>4,4'-Methylenediphenyl diisocyanate, oligomers</b>	
Persistence and degradability	Not rapidly degradable
<b>Isocyanic acid, polymethylenepolyphenylene ester, polymer with a-hydro-<math>\omega</math>-hydroxypoly(oxy-1,2-ethanediyl)</b>	
Persistence and degradability	Not rapidly degradable

### 12.3. Bioaccumulative potential

<b>Azo Grout 445</b>	
Bioaccumulative potential	Not established.
<b>Diphenylmethane Diisocyanate, isomers and homologues</b>	
BCF - Fish [1]	92 28 days
Partition coefficient n-octanol/water (Log Pow)	< 3
<b>Methylene Diphenylisocyanate</b>	
BCF - Fish [1]	200 l/kg
Partition coefficient n-octanol/water (Log Pow)	4.51

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Ozone : Not classified  
Fluorinated greenhouse gases : No

## 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. 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

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DOT	TDG	IMDG	IATA
<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

## SECTION 15 Regulatory information

### 15.1. Federal regulations

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SARA Section 311/312 Hazard Classes	Health hazard - Acute toxicity (any route of exposure) Health hazard - Carcinogenicity Health hazard - Respiratory or skin sensitization Health hazard - Skin corrosion or Irritation Health hazard - Serious eye damage or eye irritation Health hazard - Specific target organ toxicity (single or repeated exposure)
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All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

4,4'-Methylenediphenyl diisocyanate	CAS-No. 101-68-8	10 – 15%
Diphenylmethane Diisocyanate, isomers and homologues	CAS-No. 9016-87-9	10 – 15%

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### 4,4'-Methylenediphenyl diisocyanate (101-68-8)

Listed on EPA Hazardous Air Pollutant (HAPS)  
Listed on EPA HAPs Chronic Dose Response Assessment List - Carcinogens  
Listed on EPA HAPs Acute Dose Response Assessment List – Exposure limits

CERCLA RQ	5000 lb
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## 15.2. International regulations

### CANADA

#### 4,4'-Methylenediphenyl diisocyanate (101-68-8)

Listed on the Canadian DSL (Domestic Substances List)

#### Diphenylmethane Diisocyanate, isomers and homologues (9016-87-9)

Listed on the Canadian DSL (Domestic Substances List)

#### 1,3-Bis(4-((4-isocyanatophenyl)methyl)phenyl)-1,3-diazetidone-2,4-dione (17589-24-1)

Listed on the Canadian DSL (Domestic Substances List)

#### Methylene Diphenylisocyanate (26447-40-5)

Listed on the Canadian DSL (Domestic Substances List)

#### 4,4'-Methylenediphenyl diisocyanate, oligomers (25686-28-6)

Listed on the Canadian DSL (Domestic Substances List)

#### Isocyanic acid, polymethylenepolyphenylene ester, polymer with a-hydro-ω-hydroxypoly(oxy-1,2-ethanediyl) (57636-09-6)

Listed on the Canadian DSL (Domestic Substances List)

### EU-Regulations

No additional information available

### National regulations

#### 4,4'-Methylenediphenyl diisocyanate (101-68-8)

Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed on EPA HAPs Chronic Dose Response Assessment List - Carcinogens  
Listed on EPA HAPs Acute Dose Response Assessment List – Exposure limits

#### Diphenylmethane Diisocyanate, isomers and homologues (9016-87-9)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### Methylene Diphenylisocyanate (26447-40-5)

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

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Component	State or local regulations
4,4'-Methylenediphenyl diisocyanate (101-68-8)	U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - New York City - Right to Know Hazardous Substances List; U.S. - Pennsylvania - RTK (Right to Know) List
Diphenylmethane Diisocyanate, isomers and homologues(9016-87-9)	U.S. - New Jersey - Right to Know Hazardous Substance List

### SECTION 16 Other information

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

Revision date : 6/12/2026  
Issue date : 7/7/2025  
Data sources : SDS prepared by CHEMTREC.

Full text of hazard classes and H-statements	
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H320	Causes eye irritation
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

Abbreviations and acronyms	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer

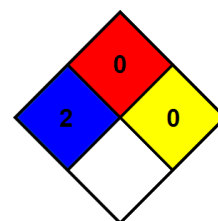
# Azo Grout 445

## Safety Data Sheet

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

Abbreviations and acronyms	
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organization for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstracts Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disruptor

NFPA health hazard	: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
NFPA fire hazard	: 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.



Indication of changes:		
Section	Changed item	Comments
8.1	Occupational exposure limits	Added

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.