# TIXOGEL-IDD

Version 1 | Revision Date 05/17/2026 | Print Date 08/06/2026

## SECTION 1. IDENTIFICATION

Product name : TIXOGEL-IDD

**Manufacturer or supplier's details**

Company : BYK USA LLC
524 South Cherry Street
Wallingford CT 06492

Telephone : (203) 265-2086
Visit our web site : www.byk.com
E-mail address : BRIEF.BYK.NAFTA@altana.com

Emergency telephone number : 203-265-2086; CHEMTREC 1-800-424-9300 / +1 703-527-3887

**Recommended use of the chemical and restrictions on use**

Recommended use : Rheology Additive
Restrictions on use : Refer to Section 15 for any restrictions that may apply

## SECTION 2. HAZARDS IDENTIFICATION

**GHS Classification**

Flammable solids : Category 1

Carcinogenicity : Category 1A

**GHS label elements**

Hazard pictograms :



Signal word : Danger

Hazard statements : H228 Flammable solid.
H350 May cause cancer.

Precautionary statements : **Prevention:**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting equipment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
**Response:**

P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
**Storage:**
P405 Store locked up.
**Disposal:**
P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture
Chemical nature : Gel of organophilic phyllosilicate

**Hazardous components**

| Component | CAS-No. | Concentration (%) |
|---|---|---|
| Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated | 93685-81-5 | >= 80 - < 100 |
| Propylene carbonate | 108-32-7 | >= 1 - < 5 |
| Crystalline silica (quartz) | 14808-60-7 | >= 0.1 - < 1 |

## SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.

In case of skin contact : If on skin, rinse well with water.
If on clothes, remove clothes.

In case of eye contact : Flush eyes with water as a precaution.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital.

## SECTION 5. FIREFIGHTING MEASURES

| | | |
|---|---|---|
| Suitable extinguishing media | : | Alcohol-resistant foam<br>Carbon dioxide (CO2)<br>Dry chemical |
| Unsuitable extinguishing media | : | High volume water jet |
| Specific hazards during firefighting | : | Handle as an industrial chemical.<br>Will not explode on mechanical impact.<br>Cool closed containers exposed to fire with water spray.<br>Do not use a solid water stream as it may scatter and spread fire.<br>Do not allow run-off from fire fighting to enter drains or water courses. |
| Hazardous combustion products | : | Carbon oxides<br>Nitrogen oxides (NOx)<br>Silicon oxides |
| Further information | : | For safety reasons in case of fire, cans should be stored separately in closed containments.<br>Use a water spray to cool fully closed containers. |
| Special protective equipment for firefighters | : | Wear self-contained breathing apparatus for firefighting if necessary. |

## SECTION 6. ACCIDENTAL RELEASE MEASURES

| | | |
|---|---|---|
| Personal precautions, protective equipment and emergency procedures | : | Use personal protective equipment.<br>Avoid dust formation.<br>Avoid breathing dust.<br>Remove all sources of ignition. |
| Environmental precautions | : | Prevent product from entering drains.<br>Prevent further leakage or spillage if safe to do so.<br>If the product contaminates rivers and lakes or drains inform respective authorities. |
| Methods and materials for containment and cleaning up | : | Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).<br>Keep in suitable, closed containers for disposal. |

## SECTION 7. HANDLING AND STORAGE

| | | |
|---|---|---|
| Advice on safe handling | : | Avoid formation of respirable particles.<br>Do not breathe vapours/dust.<br>Avoid contact with skin and eyes.<br>For personal protection see section 8.<br>Smoking, eating and drinking should be prohibited in the |

application area.
Open drum carefully as content may be under pressure.
Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage : No smoking.
Keep container tightly closed in a dry and well-ventilated place.
Observe label precautions.
Electrical installations / working materials must comply with the technological safety standards.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Components with workplace control parameters**

| Components | CAS-No. | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis |
|---|---|---|---|---|
| Crystalline silica (quartz) | 14808-60-7 | TWA (respirable) | 10 mg/m3 / %SiO2+2 | OSHA Z-3 |
| Crystalline silica (quartz) | | TWA (respirable) | 250 mppcf / %SiO2+5 | OSHA Z-3 |
| Crystalline silica (quartz) | | TWA (respirable dust fraction) | 0.1 mg/m3 | OSHA P0 |
| Crystalline silica (quartz) | | TWA (Respirable particulate matter) | 0.025 mg/m3 (Silica) | ACGIH |
| Crystalline silica (quartz) | | TWA (Respirable dust) | 0.05 mg/m3 (Silica) | NIOSH REL |
| Crystalline silica (quartz) | | TWA (Respirable dust) | 0.05 mg/m3 | OSHA Z-1 |
| Crystalline silica (quartz) | | PEL (respirable) | 0.05 mg/m3 | OSHA CARC |

Hazardous components without workplace control parameters

**Further occupational exposure limits**

| Description | Value type | Control parameters | Basis |
|---|---|---|---|
| inert or nuisance dust | TWA | 50Million particles per cubic foot<br>total dust | OSHA Z-3 |
| | TWA | 15 mg/m3<br>total dust | OSHA Z-3 |
| | TWA | 5 mg/m3<br>respirable fraction | OSHA Z-3 |
| | TWA | 15Million particles per cubic | OSHA Z-3 |

| | | | |
|---|---|---|---|
| | | foot<br>respirable fraction | |

**Personal protective equipment**

| | | |
|---|---|---|
| Respiratory protection | : | In the case of dust or aerosol formation use respirator with an approved filter.<br>Dust safety masks are recommended when the dust concentration is more than 10 mg/m3. |
| Hand protection | | |
| Material | : | Nitrile rubber |
| Wearing time | : | > 60 min |
| Remarks | : | The suitability for a specific workplace should be discussed with the producers of the protective gloves. |
| Eye protection | : | Eye wash bottle with pure water<br>Tightly fitting safety goggles |
| Skin and body protection | : | Choose body protection according to the amount and concentration of the dangerous substance at the work place. |
| Hygiene measures | : | When using do not eat or drink.<br>When using do not smoke.<br>Wash hands before breaks and at the end of workday. |

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| | | |
|---|---|---|
| Physical state | : | gel |
| Colour | : | tan, grey |
| Odour | : | characteristic |
| pH | : | substance/mixture is non-soluble (in water) |
| Melting point/ range | : | No data available |
| Boiling point/boiling range | : | No data available |
| Vapour pressure | : | No data available |
| Flash point | : | 109 °F (43 °C) |
| Upper explosion limit | : | No data available |
| Lower explosion limit | : | No data available |
| Flammability (solid, gas) | : | The substance or mixture is a flammable solid with the category 1. |
| Particle size | : | No data available |
| Density | : | 0.78 g/cm3 (68 °F (20 °C)) |
| Solubility(ies) | | |
| Water solubility | : | insoluble |

| | | |
|---|---|---|
| Ignition temperature | : | No data available |
| Thermal decomposition | : | No data available |
| Viscosity | | |
| Viscosity, dynamic | : | No data available |
| Viscosity, kinematic | : | No data available |

## SECTION 10. STABILITY AND REACTIVITY

| | | |
|---|---|---|
| Reactivity | : | No decomposition if stored and applied as directed. |
| Chemical stability | : | No decomposition if stored and applied as directed. |
| Possibility of hazardous reactions | : | No decomposition if stored and applied as directed. |
| Conditions to avoid | : | Heat, flames and sparks. |
| Incompatible materials | : | Strong oxidizing agents |
| Hazardous decomposition products | : | No decomposition if stored and applied as directed. |

## SECTION 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**
Inhalation
Ingestion
Eye contact
Skin contact

**Acute toxicity**

**Product:**

Acute oral toxicity : Remarks: No data available

**Components:**

**108-32-7 Propylene carbonate:**

| | | |
|---|---|---|
| Acute oral toxicity | : | LD50 (Rat): 29,000 mg/kg |
| Acute inhalation toxicity | : | LC50 (Rat): > 5 mg/m3 |
| Acute dermal toxicity | : | LD50 (Rabbit): > 25,000 mg/kg |

**Skin corrosion/irritation**

**Product:**

Remarks: No data available

**Components:**

**108-32-7 Propylene carbonate:**
Species: Rabbit
Result: Moderate skin irritation

**Serious eye damage/eye irritation**

**Product:**

Remarks: No data available

**Components:**

**108-32-7 Propylene carbonate:**
Species: Rabbit
Result: Eye irritation

**Respiratory or skin sensitisation**

**Product:**

Remarks: No data available

**Carcinogenicity**

| | | |
|---|---|---|
| **IARC** | Group 1: Carcinogenic to humans | |
| | Crystalline silica (quartz) | 14808-60-7 |
| **OSHA** | OSHA specifically regulated carcinogen | |
| | Crystalline silica (quartz) | 14808-60-7 |
| **NTP** | Known to be human carcinogen | |
| | Crystalline silica (quartz) | 14808-60-7 |

**Repeated dose toxicity**

**Product:**

Remarks: No data available

**Further information**

**Product:**

Remarks: No data available

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

**Product:**

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

### Persistence and degradability

**Product:**

Biodegradability : Remarks: No data available

### Bioaccumulative potential

**Product:**

Bioaccumulation : Remarks: No data available

### Mobility in soil

No data available

### Other adverse effects

No data available

**Product:**

| | |
|---|---|
| Regulation | 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances |
| Remarks | This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B). |

Additional ecological information : No data available

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.

## SECTION 14. TRANSPORT INFORMATION

### International Regulations

**IATA-DGR**

| | | |
|---|---|---|
| UN/ID No. | : | UN 1325 |
| Proper shipping name | : | Flammable solid, organic, n.o.s. (Isododecane) |
| Class | : | 4.1 |
| Packing group | : | II |
| Labels | : | Flammable Solid |
| Packing instruction (cargo aircraft) | : | 448 |
| Packing instruction (passenger aircraft) | : | 445 |

**IMDG-Code**

| | | |
|---|---|---|
| UN number | : | UN 1325 |
| Proper shipping name | : | FLAMMABLE SOLID, ORGANIC, N.O.S. (Isododecane) |
| | : | ) |
| Class | : | 4.1 |
| Packing group | : | II |
| Labels | : | 4.1 |
| EmS Code | : | F-A, S-G |
| Marine pollutant | : | no |
| Remarks | : | IMDG Segregation code 72 - See tables in 7.2.6.3 |

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

### National Regulations

**49 CFR**

| | | |
|---|---|---|
| UN/ID/NA number | : | UN 1325 |
| Proper shipping name | : | Flammable solids, organic, n.o.s. (Isododecane) |
| Class | : | 4.1 |
| Packing group | : | II |
| Labels | : | FLAMMABLE SOLID |
| Marine pollutant | : | no |

## SECTION 15. REGULATORY INFORMATION

**EPCRA - Emergency Planning and Community Right-to-Know Act**

**US. EPA CERCLA Hazardous Substances (40 CFR 302)**

Calculated RQ exceeds reasonably attainable upper limit.

**SARA 304 - Emergency Release Notification**

Calculated RQ exceeds reasonably attainable upper limit.

**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)**

Calculated RQ exceeds reasonably attainable upper limit.

**SARA 311/312 Hazards** : Per the June 13, 2016 Federal Register notice, EPA harmonized the EPCRA 311/312 hazard categories with the 2012 OSHA hazard communication standard for classifying and labeling of chemicals (i.e. GHS). Please refer to Section 2 of the SDS to identify the appropriate hazard categories for reporting purposes.

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**Clean Air Act**

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

**US State Regulations**

**Massachusetts Right To Know**

| | |
|---|---|
| Crystalline silica (quartz) | 14808-60-7 |

**Pennsylvania Right To Know**

| | |
|---|---|
| Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated | 93685-81-5 |
| organophilic phyllosilicate | - |

**New Jersey Right To Know**

**New Jersey Trade Secret Registry Number for the product (NJ TSRN)** : 800963-6500

**California Prop. 65**

⚠ WARNING: This product can expose you to chemicals including Crystalline silica (quartz), Propylene oxide, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

**The components of this product are reported in the following inventories:**

| | | |
|---|---|---|
| TSCA | : | For Cosmetic Use Only |
| Section 5a | : | No substances are subject to a Significant New Use Rule. |
| Section 4 / 12(b) | : | No substances are subject to TSCA 12(b) export notification requirements. |
| DSL | : | We certify that all of the components of this product are listed on the DSL. |

## SECTION 16. OTHER INFORMATION

Revision Date : 05/17/2026

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.