

**TIXOGEL-DMC**

Product code: 000000000000138942

Version 1.1 SDS\_APJ\_MY

Revision Date 15.12.2023

Print Date 05.01.2026

**SECTION 1: Identification of the hazardous chemical and of the supplier****Product identifier**

Product name : TIXOGEL-DMC  
Recommended use : Rheology Additive

**Manufacturer or supplier's details**

Company : BYK USA LLC  
Address : South Cherry Street 524  
06492 Wallingford  
Telephone : +1 203-265-2086  
Telefax :  
E-mail address : BRIEF.BYK.NAFTA@altana.com  
Emergency telephone number : +60 3 6207 4347 (Malay and English)  
+65 3158 1074 (All languages)

**SECTION 2: Hazards identification****Classification of the hazardous chemical**

Flammable solids : Category 1  
Carcinogenicity : Category 1A

**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.  
P210 Keep away from heat/ sparks/ open flames/ hot surfaces.  
No smoking.  
P281 Use personal protective equipment as required.  
**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 for extinction.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste  
disposal plant.

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### Other hazards which do not result in classification

None known.

### SECTION 3: Composition and information of the ingredients of the hazardous chemical

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

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
decamethyltetrasiloxane	141-62-8	>= 50 -<= 100
Quartz (SiO <sub>2</sub> )	14808-60-7	>= 0.1 -< 0.25

### 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.

Most important symptoms and effects, both acute and delayed : No information available.  
 No information available.

Notes to physician : No information available.

### SECTION 5: Firefighting measures

#### Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam  
 Carbon dioxide (CO<sub>2</sub>)  
 Dry chemical

Unsuitable extinguishing media : High volume water jet

#### Physicochemical hazards arising from the chemical

Specific hazards during firefighting : Flash back possible over considerable distance.  
 Do not use a solid water stream as it may scatter and spread fire.  
 Fire burns more vigorously than would be expected.

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The pressure in sealed containers can increase under the influence of heat.  
Cool closed containers exposed to fire with water spray.  
Vapours may form flammable mixture with air  
Exposure to decomposition products may be a hazard to health.  
Will not explode on mechanical impact.  
Handle as an industrial chemical.

Hazardous combustion products : Nitrogen oxides (NO<sub>x</sub>)  
Carbon oxides  
Silicon oxides

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

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.  
Specific extinguishing methods : For safety reasons in case of fire, cans should be stored separately in closed containments.  
Use a water spray to cool fully closed containers.

## SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Avoid dust formation.  
Avoid breathing dust.  
Remove all sources of ignition.

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
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).  
Keep in suitable, closed containers for disposal.

## SECTION 7: Handling and storage

### Handling

#### Precautions for safe handling

Advice on protection against fire and explosion : Avoid dust formation.  
Provide appropriate exhaust ventilation at places where dust is formed.  
Keep away from open flames, hot surfaces and sources of ignition.

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

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

### Storage

#### Conditions for safe storage, including any incompatibilities

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

Further information on storage stability : No decomposition if stored and applied as directed.

## SECTION 8: Exposure controls and personal protection

### Control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Quartz (SiO <sub>2</sub> )	14808-60-7	TWA (Respirable fraction)	0.1 mg/m <sup>3</sup>	MY PEL
		TWA (Respirable fraction)	0.025 mg/m <sup>3</sup> (Silica)	ACGIH

### Individual protection measures, such as personal protective equipment

Eye/face protection : Eye wash bottle with pure water  
Tightly fitting safety goggles

Skin protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hand protection

Material : Nitrile rubber  
Break through time : > 60 min

Remarks : Wear suitable gloves.

Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.  
Dust safety masks are recommended when the dust concentration is more than 10 mg/m<sup>3</sup>.

Filter type : Filter type P

Hygiene measures : When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.

## SECTION 9: Physical and chemical properties

Appearance : gel

Colour : light green

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Odour	:	characteristic
pH	:	substance/mixture is non-soluble (in water)
Melting point/freezing point	:	No data available
Boiling point/boiling range	:	> 35 °C
Flash point	:	57.2 °C
Flammability (solid, gas)	:	The substance or mixture is a flammable solid with the category 1.
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Density	:	1 g/cm <sup>3</sup> (20 °C, 1,013 hPa)
Solubility(ies)	:	
Water solubility	:	insoluble
Auto-ignition temperature	:	No data available
Decomposition temperature	:	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 : None known.

**Acute toxicity****Product:**

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Acute oral toxicity : Remarks: No data available

**Skin corrosion/irritation****Product:**

Remarks : No data available

**Serious eye damage/eye irritation****Product:**

Remarks : No data available

**Respiratory or skin sensitisation****Product:**

Remarks : No data available

**Repeated dose toxicity****Product:**

Remarks : No data available

**Further information****Product:**

Remarks : No data available

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**SECTION 12: Ecological information****Ecotoxicity****Product:**Toxicity to fish :  
Remarks: No data availableToxicity 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

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### Mobility in soil

No data available

### Other adverse effects

#### Product:

Additional ecological information : No data available

## SECTION 13: Disposal information

### 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.  
(Siloxanes)  
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.  
(Siloxanes)  
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.

### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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### SECTION 15: Regulatory information

#### Safety, health, and environmental regulations specific for the hazardous chemical

Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013.

Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations 2000.

### SECTION 16: Other information

Date format : dd.mm.yyyy

#### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

MY PEL : Malaysia. Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations 2000.

ACGIH / TWA : 8-hour, time-weighted average

MY PEL / TWA : Eight-hour time-weighted average airborne concentration

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECl - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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