

Safety Data Sheet
According to Regulation (EC) No 1907/2006, Annex II,
Amended by COMMISSION REGULATION (EU) 2020/878,
According to REGULATION (EC) No 1272/2008

Rheology Modifier

Version 1.0

Issue date: 23-04-2023

Revision date: 23-04-2023

SDS Record Number: CSSS-TCO-010-154938

Section 1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:

Identification on the label/Trade name: Rheology Modifier BS-1C-A25
Additional identification: Nanoform is NOT covered by this SDS.
Identification of the product: Not available
Index Number: Not available
REACH registration No.: Not available

1.2 Relevant identified uses of the substance or mixture and uses advised against:

1.2.1 Identified uses:

PICA industry (Paints, Inks, Coatings and Adhesives), lubricating greases, plastics, cosmetics and drilling well mud, etc.

1.2.2 Uses advised against:

Not available.

1.3 Details of the supplier of the safety data sheet:

Supplier(Only representative): Chemical Inspection & Regulation Service Limited
Supplier(Manufacturer): Zhejiang Fenghong New Material Co.,Ltd
Address: Tangpu Developing Zone, Anji County, Zhejiang Province, China. P.C.313300
Contact person(E-mail): Mr. Messi (bentonite@zjfenghong.com)
Telephone: +86-571-63806068, 63711876
Fax: +86-571-63751569, 63806098

1.4 Emergency telephone Number:

+86-571-63806068 Only available during office hours (9:00a.m.-17:30p.m.)

Available outside office hours? YES NO

Section 2 Hazards identification

2.1 Classification of the substance or mixture:

2.1.1 Classification of the substance::

According to REGULATION (EC) No 1272/2008, based on available data, the classification criteria are not met:

REGULATION (EC) No 1272/2008	
Hazard classes/Hazard categories	Hazard codes
Not classified	N/A

2.2 Label elements:

Hazard pictogram(s): No hazard pictogram is used.
Signal word: No signal word is used.
Hazard statement(s): Not applicable.
Precautionary statement(s): Not applicable.
Supplemental Hazard information (EU) Not applicable.

2.3 Other hazards:

Product name: Rheology Modifier

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The substance is not PBT / vPvB.

The substance is not identified as having endocrine disrupting properties.

Section 3 Composition/information on ingredients

Substance/Mixture: Substance

Ingredient(s):

Chemical Composition: Alkyl quaternary ammonium clay

Hazardous components	CAS#	Percent
Quartz	14808-60-7	<1
Non-hazardous components	CAS#	Percent
Sepiolite	63800-37-3	62-75
Quaternary ammonium compounds	61788-78-1	17-30
Water	7732-18-5	4-8

Section 4 First aid measures

4.1 Description of first aid measures:

In all cases of doubt, or when symptoms persist, seek medical attention.

4.1.1 In case of inhalation:

Remove patient from exposure; obtain medical attention if ill effects occur.

4.1.2 In case of skin contact:

Instantly wash with running water and soap and rinse thoroughly. If symptoms (irritation or blistering) occur obtain medical attention. Contaminated clothing should be laundered before re-use.

4.1.3 In case of eyes contact:

Rinse opened eye for several minutes under running water. Then consult doctor.

4.1.4 In case of ingestion:

Immediately rinse mouth with water, give warm water to drink. Induce vomiting. If ingested, seek medical assistance and show MSDS.

4.2 Most important symptoms and effects, both acute and delayed:

The product is not classified as harmful to human health effect.

4.3 Indication of any immediate medical attention and special treatment needed:

If skin irritation or rash occurs, get medical advice/attention.

Section 5 Firefighting measures

5.1 Extinguishing media:

Suitable extinguishing media: Carbon dioxide, appropriate foam or dry chemical, water spray, water mist.

Unsuitable extinguishing media: Not available.

5.2 Special hazards arising from the substance or mixture

Precautions for flammable organic should be provided. Avoid high dust concentrations. Assure all equipment is properly grounded to prevent static discharges, and vented to provide for potential energy release.

5.3 Advice for firefighters:

Firefighters must wear fire resistant protective equipment. Wear self contained breathing apparatus and protective gloves.

Section 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

6.1.1 For non-emergency personnel: Wear an air-purifying dust respirator and chemical resistant gloves. Wear eye protection to prevent dust from entering the eyes.

- 6.1.2 For emergency responders:** Wear an appropriate NIOSH/MSHA approved respirator if dust is generated.
- 6.2 Environmental precautions:** Do not allow material to be released to the environment without proper governmental permits.
- 6.3 Methods and material for containment and cleaning up:** Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions.
- 6.4 Reference to other sections:** See Section 8 for information on personal protection equipment.
See Section 13 for information on disposal.

Section 7 Handling and storage

7.1 Precautions for safe handling:

- 7.1.1 Protective measures:** Precautions for flammable organic dusts should be provided. Avoid high dust concentrations. Assure all equipment is properly grounded to prevent static discharges, and vented to provide for potential energy release. Control high dust concentrations while handling through the use of ventilation or other suitable controls.
- 7.1.2 Advice on general occupational hygiene:** Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.
- 7.2 Conditions for safe storage, including any incompatibilities:** Store in a cool, dry place. Store in a tightly closed container. Keep away from incompatible materials.
- 7.3 Specific end use(s):** Not applicable.

Section 8 Exposure controls/personal protection

8.1 Control parameters:

8.1.1 Occupational exposure limits:

Country	Substance	EINECS No.	CAS No.	Occupational Exposure Limit Value (8-hour reference period)		Occupational Exposure Limit Value (15-minute reference period)		
				ppm	mg/m ³	ppm	mg/m ³	Note
Ireland	Quartz	238-878-4	14808-60-7	-	0.1 (Respirable fraction)	-	-	-

- 8.1.2 Additional exposure limits under the conditions of use:** Not available.
- 8.1.3 DNEL/DMEL and PNEC-Values:** Not available.
- 8.2 Exposure controls:**
- 8.2.1 Appropriate engineering controls:** Use local exhaust ventilation if airborne concentrations are above recommended exposure limits.
Ingredient comments:
Dust contains respirable crystalline silica. Prolonged and/or massive inhalation of respirable crystalline silica dust may cause lung fibrosis, commonly referred to as silicosis. Principal symptoms of silicosis are cough and breathlessness. Occupational exposure to respirable dust should be monitored and controlled. The product should be handled using methods and techniques that minimise or eliminate dust generation. The product contains less than 1% w/w RCS (respirable crystalline silica) as determined by the SWERF method. The respirable crystalline silica content can be measured using the "Size-Weighted Respirable Fraction – SWERF" method. All details about the SWERF method is available at www.crystallinesilica.eu
- 8.2.2 Individual protection measures, such as personal protective equipment:**

Eye/face protection:	Wear safety goggles to prevent eye exposure.
Skin protection	
Hand protection:	Wear chemical resistant gloves to prevent skin exposure.
Body protection:	Wear suitable protective clothing to prevent skin exposure.
Respiratory protection:	Use an air-purifying dust respirator if airborne concentration levels are above exposure limits.
Thermal hazards:	Wear suitable protective clothing to prevent heat.
8.2.3 Environmental exposure controls:	Avoid discharge into the environment. According to local regulations, Federal and official regulations.

Section 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Physical state:	Powder
Colour:	Off white/Light cream/Pale yellow
Odour:	Odourless
Odour threshold:	Not applicable
pH:	Not available
Melting point/freezing point (°C):	Not applicable
Boiling point or initial boiling point and boiling range (°C):	Not applicable
Flash point (°C):	Not applicable
Evaporation rate:	Not applicable
Flammability limit - lower (%):	Not available
Flammability (gas, liquid, solid):	May form combustible dust concentrations in air
Ignition temperature (°C):	Not available
Lower and upper explosion limit:	Not applicable
Vapour pressure (20°C):	Not applicable
Relative vapour density:	Not available
Relative Density (g/cm³):	Not available
Bulk density (kg/m³):	Not available
Solubility in water (g/l, 20°C):	Insoluble
Solubility in other polar and non-polar solvents (g/l, 20°C):	Not available
Partition coefficient n-octanol/water (log Po/w, 20°C):	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Kinematic viscosity (mm²/s):	Not applicable
Particle characteristics:	Not available
Explosive properties:	Not available
Oxidising properties:	Not available
Molecular Formula:	Not available
Molecular Weight:	Not available

9.2. Other information:

Fat solubility(solvent-oil to be specified)	Not available
etc:	

Surface tension:	Not available
Dissociation constant in water(pKa):	Not available
Oxidation-reduction Potential:	Not available

Section 10 Stability and Reactivity

10.1 Reactivity:	The substance is stable under normal storage and handling conditions.
10.2 Chemical stability:	Stable at room temperature in closed containers under normal storage and handling conditions.
10.3 Possibility of hazardous reactions:	No dangerous reactions known.
10.4 Conditions to avoid:	Incompatible materials, moisture.
10.5 Incompatible materials:	Strong oxidizing agents, strong acids.
10.6 Hazardous decomposition products:	In case of fire, possible emission of carbon monoxide, carbon dioxide, organic chlorides and ammonia.

Section 11 Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:

Acute toxicity:	
LD50(Oral, Rat):	20,000 mg/kg
LC50(Inhalation, Rat):	Not available
LD50(Dermal, Rabbit):	Not available
Skin corrosion/irritation:	Not classified
Serious eye damage/irritation:	Not classified
Respiratory or skin sensitization:	Not classified
Germ cell mutagenicity:	Not classified
Carcinogenicity:	Not classified
Reproductive toxicity:	Not classified
STOT- single exposure:	Not classified
STOT-repeated exposure:	Not classified
Aspiration hazard:	Not classified

11.2 Information on other hazards

Endocrine disrupting properties:	The substance is not identified as having endocrine disrupting properties.
Other information:	Not applicable

Section 12 Ecological information

12.1 Toxicity:

Acute (short-term) toxicity:	
LC50(96h, Fish):	Not available
LC50(48h, Crustacea):	>30,000mg/L
EC50(72h, Algae/aquatic plants):	>10,000 mg/L
Chronic (long-term) toxicity:	
NOEC(Fish):	Not available
NOEC(Crustacea):	Not available
EC50(Algae/aquatic plants):	Not available

12.2 Persistence and degradability: Biodegradability: Insignificant Degradability.

12.3 Bioaccumulative potential: Not available.

12.4 Mobility in soil: Not available.

12.5 Results of PBT and vPvB

The substance is not PBT / vPvB.

assessment:**12.6 Endocrine disrupting properties:**

The substance is not identified as having endocrine disrupting properties.

12.7 Other adverse effects:

Not available.

12.8 Additional information

Do not allow to enter waters, waste water, or soil.

Section 13 Disposal considerations**13.1 Waste treatment methods:**

Any disposal practice must be in compliance with all local and national laws and regulations. Do not dump into any sewers, on the ground, or into any body of water.

Section 14 Transport Information

	Land transport (ADR/RID)	Inland waterways (ADN)	Sea transport (IMDG)	Air transport (ICAO/IATA)
14.1 UN number or ID number	Not regulated	Not regulated	Not regulated	Not regulated
14.2 UN 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	No	No	No	No
14.6 Special precautions for user	See section 2.2	See section 2.2	See section 2.2	See section 2.2
14.7 Maritime transport in bulk according to IMO instruments	Not regulated	Not regulated	Not regulated	Not regulated

Section 15 Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:****Relevant information regarding authorization:**

Not applicable.

Relevant information regarding restriction:

Not applicable.

Other EU regulations:Employment restrictions concerning young person must be observed.
For use only by technically qualified individuals.**Other National regulations:**

Not applicable

15.2 Chemical Safety Assessment

YES

NO

Section 16 Other information**16.1 Indication of changes:**

Version 1.0 Amended by (EU) 2020/878

16.2 Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

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IMDG: Code international maritime dangerous goods code

ICAO: International Civil Aviation Organization

IATA: International Air Transport Association

LC50: median lethal concentration

EC50: The effective concentration of substance that causes 50% of the maximum response.

NOEC: No Observed Effect Concentration

DNEL: derived no-effect level

PNEC: predicted no-effect concentration

16.3 Key literature references and sources for data

ECHA Registered substances data

16.4 Training instructions:

Not applicable.

16.5 Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

16.6 Notice to reader:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

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