

17 FLOOR, YUHENG BUILDING, NO.170 XUZHOU NORTH ROAD, QINGDAO, CHINA EMAIL: michael@cncolorchem.com TEL:0086 532 88978177/88978188 FAX:0086 532 88962988/88967877 WEBSITE: www.cncolorchem.com

MATERIAL SAFETY DATA SHEET

SECTION 1 - Chemical product and company identification

Product name: THERMO-EXPANDABLE MICROSPHERES

Product use: As filler for paints, ink, adhesives, coating, paper, plastics, rubber, textile, lightweight

materials, etc.

Company identification:

Company name: QINGDAO SANHUAN COLORCHEM CO.,LTD

Company address: 17 FLOOR, YUHENG BUILDING, NO. 170 XUZHOU NORTH

ROAD,QINGDAO,China.

Emergency telephone: +86 532 8897 8177

SECTION 2 - Hazards identification

GHS Classification

Not a hazardous substance or mixture.

GHS-Labelling

Not a hazardous substance or mixture.

Other hazards which do not result in classification

Risk of dust explosion.

SECTION 3 - Composition/information on ingredients

Hazardous components

Ingredient Name	CAS NO.	GHS Classification	%
Hydrocarbon (Isopentane)	78-78-4	Flam. Liq. 1; H224	15-25
		STOT SE 3; H336	
		Asp. Tox. 1; H304	
		Aquatic Acute 2; H401	
		Aquatic Chronic 2; H411	10

Non-hazardous substance

Chemical Name	CAS-No.	GHS Classification	%
Acrylonitrile copolymer	Trade secret	Not classified	75-85

SECTION 4 - First-aid measures

General information: The contaminated clothes need to be changed. In case of persisting

discomfort please contact a physician.

Inhaled: Remove to fresh air. If breathing is difficult, get immediate medical attention. Skin:

Wash with soap and water. If irritation develops, get medical attention.

Eye: Flush with water for 15 minutes. If irritation develops, get immediate medical attention.

Swallowed: Do not induce vomiting. Get immediate medical attention.

SECTION 5 - Fire fighting measures

Flammable properties

Flash point :	Not applicable	
Upper explosion limit:	No data available	



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Lower explosion limit :	> 40.000 mg/m3
Flammability (solid, gas):	Not applicable
Suitable extinguishing media:	Water spray, Foam
Specific hazards during firefighting / Specific hazards arising from the chemical:	Do not allow run-off from fire fighting to enter drains or water courses. Risks of ignition followed by flame propagation or secondary explosions shall be prevented by avoiding accumulation of dust, e.g. on floors and ledges.
Special protective equipment for firefighters:	In the event of fire, wear self-contained breathing apparatus.
Further information:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6 - Accidental release measures

Personal protection Wear protective gloves, safety goggles, and a respirator if necessary.

Avoid breathing dust and minimize dust generation and

accumulation.

Environmental measures Waste water must be cleaned from rest products prior to emptying

into the sewer system.

Cleaning procedures and

absorption

Vacuum or sweep into a suitable container for reuse or appropriatedisposal.

SECTION 7 - Handling and storage

Handling

Safety advice Ground and bond containers when transferring product to prevent

dust explosion. Avoid dust generation. Use in accordanc with good industrial workplace practices. Avoid unnecessary contact.

Wash thoroughly after handling.

Technical protective measures Local ventilation and airing guarantee,.

Storage

Requirements for storage in rooms and containers:

store in a dry area away from flames, sparks, static build up, and

excessive heat.

Keep container closed when not in use to protect product quality.

Joint storage: Not with strong oxidizer stored together

Storage class: chemical storage. The product is stable, nonflammable. No

specific incompatibility but, as with other organic materials,

avoid contact with strong oxidizing agents.

SECTION 8 - Exposure controls/personal protection



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Engineering controls: Local exhaust ventilation.

Protective gloves: Synthetic gloves if necessary to prevent excessive skin contact.

Respiratory protection: NIOSH / MSHA approved respirator if necessary.

Eye protection: chemical goggles if necessary to prevent contact and mechanical irritation.

Other protective equipment: Eye wash and emergency showers should be available.

SECTION 9 - Physical and chemical properties

Appearance: white powder Type of odor: weak odor Physical state: solid PH: No data available

Specific gravity: No data available Temperature start foaming: 130°C Solubility in water: insoluble Average particle size: 20-35 µm

Explosive properties: Dust may form explosive mixture in air.

SECTION 10 - Chemical stability and reactivity information

Conditions to avoid: Heat, flames and sparks. For safety, store below: 50°C

Chemical stability: Stable at room temperature and recommended operating, storage and disposal conditions.

Incompatibility with other materials: No specific incompatibility but, as with other organic materials, avoid contact with strong oxidizing agents and strong caustic materials.

Dangerous decomposition products: Thermal decomposition or combustion can release toxic gases or vapors.

Hazardous reactions: Dust may form explosive mixture in air. If the product is stored at temperatures 510rchem above 60°C the release of blowing agent increases with a risk of explosive airmixtures.

SECTION 11 - Toxicological information

Product information:

Hazard Summary

Inhalation: Product dust may be irritating to the respiratory system.

Skin: Product dust may be irritating to skin. Eyes: Product dust may be irritating to eyes.

Ingestion: Not irritating.

Acute oral toxicity: Acute toxicity estimate: > 5.000 mg/kg (Method: Expert judgement)

Toxicology data for the components:

Component: Isopentane

Acute inhalation toxicity: LC50 (Rat): > 4094 ppm Exposure time: 4 h

Target Organ Systemic Toxicant - Single exposure: May cause drowsiness or dizziness.



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Aspiration toxicity: The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

SECTION 12 - Ecological information

Toxicity to fish: LC50: > 5.000 mg/l Exposure time: 96 h

Bioaccumulation: Does not bioaccumulate

Mobility: immobile

Biodegradability: Not readily biodegradable.

Components:

Component: Isopentane

Additional ecological information: Toxic to aquatic organisms, may cause long-term adverse effects in

the aquatic environment.

Toxicity to fish: LC50: > 1 - 10 mg/l, Exposure time: 96 h

Biodegradability: Not readily biodegradable.

SECTION 13 - Disposal consideration

Waste disposal method: Dispose of unused product and empty containers in accordance with all applicable Federal, state and local environmental regulations. Product may be sent to an approved landfill or licensed storage, treatment, and disposal facility. Do not dump into sewers, on the ground, or in any body of water.

SECTION 14 - Transportation information

United Nations Dangerous Goods Number (UN No.): None (although "polymer beads, expandable" is usually classified as dangerous goods, However, this product is judged as not belonging to dangerous goods, which is determined on the basis of SP382[special provisions of UN2211], that the concentration of flammable vapor <20% is below the explosion limit.

United Nations Transport name: None United Nations Risk Classification: none

Packing type: None

Marine contaminants (yes/No): No

Transportation precautions: Carry protective equipment and fire extinguishers. Check containers for leaks before shipping and loading; Ensure steady, safe loading to prevent containers from slipping, falling and damage. Proper measures should be taken to prevent container damage/ friction during transportation. Handle and open containers carefully. Prevent direct exposure in the sun. Prevent rain and high temperature. Avoid contact with water. Avoid moisture. Though it's not dangerous goods, should be comply with ICAO, IMDG, RID, ADR, ADN regulations during transportation.

SECTION 15 - Regulatory information

DSL - Listed;

TSCA(USA) - Listed;



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EINECS(EUROPE) - Listed

IECSC - Listed.

Safety data sheet available for professional user on request.

SECTION 16 - Other information NOTICE

The information or recommendations contained herein are on standard product and proprietary and furnished solely for the use of our customers. Since it is impossible for us to determine the precise conditions under which our product will be used, neither j color chemicals nor its affitiates can accept responsibility for loss, injury or other damages resulting from the use of the product or this or any other information provided by us. Users are advised to make their own tests to determine the safety, suitability, and relevance of federal and local law to the product. Therefore, unless otherwise agreed in a signed writing, no guarantee of any kind, expressed or implied, including those of fitness or merchantability, are made by j color chemicals or its affiliates with regard to any their products.



