

Safety Data Sheet

1. IDENTIFICATION

Product name : DL U017-175W
 Product Type : Filler
 Recommended use of the chemical and restrictions on use : Foaming agent, Thermoexpandable capsule. MANUFACTURE
 Company Name : Chase Corporation,
 Chemical Intermediates Division
 Address : 9 Furman Hall Court
 Greenville, SC 29609 USA
 800-323-4162

Emergency Contact Information: Call CHEMTREC at 800-424-9300 (if inside USA), 703-527-3887 (if outside of the USA), only in the event of emergencies involving a spill, leak, fire, exposure or any accident involving chemicals.

2. HAZARD IDENTIFICATION

HCS Classification of the substance or mixture: Serious eye Damage/ eye irritation:
 HCS label elements, including precautionary statements: Category 2B
 Signal word: Warning not applicable

Precautionary statement : may be harmful if swallowed, causes eye irritation, toxic to aquatic lifeact

EMERGENCY OVERVIEW: When stored in closed containers; *the concentration of residual monomers and hydrocarbon released may reach such a level that inhalation is harmful. *a flammable atmosphere within the containers can develop.

Dust explosion hazard : Lowest explosion concentration approximately 65g/m³ (Dry powder).

Precautions : Avoid inhalation of dusts. Wear dust mask if dust levels exceed 10 mg/m³.
 Avoid eye and skin contact with dusts.

Suggested First Aid:

Eye Contact : Immediately flush with plenty of water. If irritation persists, contact a physician.

Skin Contact : Wash affected area with soap and water.

Inhalation : Remove person to uncontaminated air.

3. COMPOSITION/INFORMATION ON INGREDIENTS

MATSUMOTO MICROSHERE F-80S is a thermoexpandable microcapsule which encapsulates a volatile hydrocarbon as blowing agent with copolymer of Acrylonitrile and the other acrylics.

<u>Chemical name</u>	<u>CAS NO</u>	<u>Wt%</u>	<u>Classification</u>
Copolymer of Acrylonitrile and the other acrylics	trade secret	56~61%	
Pentane	109-66-0	7~10% <1%	F+;R12 Xn;R65 R66 R67 N; R51/53 F+;R12 Xn;R65 R66 R67 N; R51/53
2-Methyl butane	78-78-4	<1%	F; R11 Xn;R48/20;R62
n-Hexane	110-54-3		
Silica	7631-86-9	about 2%	
Moisture	7732-18-5	about 30%	
<u>Residual Monomer</u>	107-13-1	<0.02%	F, T, R:45-11
Acrylonitrile	126-98-7	<0.05%	F; R11 T; R23/24/25 R43
Methacrylonitrile			N;R51-53

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(Complying with HCS)

Hazardous Components				Otherlimits
(Specific Chemical Identity; Common Name(s))		OSHA PEL	ACGIH TLV	Recommended%(optional)
Acrylonitrile	CAS No. 107-13-1	2ppm	2ppm	<0.02%
Methacrylonitrile	CAS No. 126-98-7		1ppm	<0.05%
Pentane	CAS No. 109-66-0	1000ppm	600ppm	7~10%
2-Methyl butane	CAS No. 78-78-4		600ppm	<1%
n-Hexane	CAS No. 110-54-3		50ppm	<1%

4. FIRST AID MEASURES

Emergency and First Aid Procedures :

- Eye contact : Immediately flush with plenty of water. If irritation persists, contact a physician.
- Skin contact : Wash affected area with soap and water.
- Inhalation : Remove person to uncontaminated air.
- Ingestion : Drink a glass of water or warm water.

Health effects

- Eye contact : May cause inflammation.
- Skin contact : May cause inflammation rarely.
- Inhalation : Dry MICROSPHERE is dusty and cause transient difficulty in breathing. Concentration of residual monomers and hydrocarbon released may reach such a level that inhalation is harmful, when stored in closed containers.
- Ingestion : No serious health effect anticipated due to chemical composition.

Medical attention

Professional assistance by a doctor if needed.

5. FIRE-FIGHTING MEASURES

Flammable properties

- Flammability : Not classified as highly flammable.
- Flammable Limits : Not Applicable
- Autoignition Temperature : Not Applicable
- Explosion properties : Dust explosion hazard
Lowest explosion concentration approximately 65g/m³(Dry powder)

Extinguishing Media : Foam, CO₂ sand, or water spray.

Special Fire Fighting protective equipment : Self-contained breathing apparatus.

Unusual Fire and Explosion Hazards : MATSUMOTO MICROSPHERE F-80S contains hydrocarbon. Ordinary decomposition materials may occur in case of fire.

6. ACCIDENTAL RELEASE MEASURES

Personal protection:

Avoid inhalation of dusts. Wear safety gloves, goggles, and masks. Avoid eye and skin contact with dust.

Care for environment : Keep out of public waterway.

Methods and materials for containment and cleaning up:

Sweep up by a vacuum cleaner and transfer the product to a safe place, and contain it in containers.

Prevention of secondary disaster:

- Remove source of ignition and prepare extinguishing media. Do not walk on spilled product.
- Use spark-free tools for removing the spillage.

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7. HANDLING AND STORAGE

Handling : Keep away from fire at below 40 degrees C.
When preparing mixtures, maintain adequate ventilation and use improved safety electronic equipments.

Storage : Keep away from fire at below 40 degrees C and maintain adequate ventilation.

Incompatible product : None

Packaging materials : Polyethylene bag, Fiberboard drum.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls :
Ventilation : Local exhaust is recommended.

Personal protective equipment:
Respiratory Protection : Put on dust-protective mask.
Eye Protection : Not normally necessary. Use goggles and full face shield if dispersing is possible.

Other Protective Clothing or Equipment:
Prevent skin contact by providing gloves, apron and arm covers.

Work/Hygienic Practices:
Normal care and cleanliness during handling.

Exposure guidelines : Not established.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor : Pale yellow wet powder. Specific odor.

Moisture : about 30%

pH : 6~8 (1% dispersion)

Softening point : About 135°C

Boiling point : Not Applicable

Flammability : Not classified as highly flammable.

Explosion properties: Dust explosion hazard. Lowest explosion concentration approximately 65g/m³
(Dry powder).

Specific Gravity (H₂O= 1) : about 1.0

Solubility in water : Insoluble

10. STABILITY AND REACTIVITY

Stability : Stable under normal conditions.

Incompatibility (Materials to Avoid) : None

Hazardous Decomposition or Byproducts : None

Hazardous Polymerization : Will not Occur

11. TOXICOLOGICAL INFORMATION

Acute inhalation effects

Eye effects : Not established

Skin effects : Not established

Acute oral effects : Not established

Subchronic effects : Not established

Chronic effects / Carcinogenicity : Not established

Mutagenicity : Not established

The information is not available yet.

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12. ECOLOGICAL INFORMATION

Mobility in soil : Unknown
Persistence/degradability : Unknown
Bioaccumulation : Unknown
Eco-toxicity : Unknown
Hazardous to the ozone layer : None
The information is not available yet.

13. DISPOSAL CONSIDERATION

Waste disposal method:
Burn down a little a time. Dispose of in accordance with all local, state and federal regulations.
Comply with all EU, national and local regulations.
Do not dump this material into sewers, on the ground or into any body of water.

14. TRANSPORT INFORMATION

International transportation:
Follow the rules of IATA for air transportation and the rules of IMDG for marine transportation.
The UN classification number: UN-2211 UN packing Group: III
Polymeric Beads expandable/Polystyrene Beads expandable
IMDG : Code ; Class9, Code Page ; 9036
EmS No : F-A,S-I
MFAG No : none
ADR/RID : Class9, 4(c)
IATA-DGR : Class 9

15. REGULATORY INFORMATION

Classification : Not classified as harmful substance.
Labeling :
Danger symbol :
HMIS-rating: Health 1
Flammability 2
Reactivity 0
Personal Protect 1

Chemical inventories:

TSCA All components applied. .
EINECS All components listed. Polymer under Polymer Exemption.
Canada DSL All components listed.

Please refer to national measures that may be relevant.

16. OTHER INFORMATION

DISCLAIMER: THIS DATA IS OFFERED IN GOOD FAITH AS TYPICAL VALUES AND ARE NOT A PRODUCT SPECIFICATION. NO WARRANTY, EITHER EXPRESSED OR IMPLIED IS MADE. THE STATED RECOMMENDED HANDLING PROCEDURES ARE BELIEVED TO BE GENERALLY APPLICABLE. HOWEVER, EACH USER SHOULD REVIEW THESE RECOMMENDATIONS WITHIN THE CONTEXT OF THE SPECIFIC INTENDED USE.