MATERIAL SAFETY DATA SHEET

Product Name: **Microstat 40**

Issue Date: September 2019

Version: 6

Classified as Hazardous

1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier:

Trade Name: Microstat 40
Article No.: n.av.
Preparation No.: n.av.
Registration No.: n.av.

1.2. Relevant identified uses of the substances or mixture and uses advised against

Use Nucleating agent

1.3. Details of the supplier of the safety data sheet

1.3.1. Address of the Company / Supplier :

Micronisers Pty Ltd, 6-8 England Street Dandenong Victoria 3175 Australia
Telephone: +61–3-9768-3277, Telefax: +613 9768 3986, E-Mail: info@micronisers.com

1.3.2. Responsible :

Micronisers Pty Ltd, 6-8 England Street Dandenong Victoria 3175 Australia, E-Mail: info@micronisers.com

1.4. Emergency telephone number

Emergency - Telephone of Company / Undertaking
Telephone : +61-3-9768-3277 (9:00 – 17:00)
Victorian Poison Information Centre, Australia (24 Hours, 7 days a week)
Telephone : 13 11 26
Overseas users: call Local Poisons information Centre

2. SECTION 2: HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture

Aquatic Acute 1 / Aquatic Chronic 1

2.2. Label elements

Classification according to 1272/2008/EC: Yes.
Applicable Exemptions: Yes.
Signal word(s): Warning
Component(s): Zinc monoglycerolate

H - Phrases :

H 410: Very toxic to aquatic life with long lasting effects.

Hazard pictogram(s)

P - Phrases :

P 102: Keep out of reach of children.
P 262: Do not get in eyes, on skin, or on clothing.
P 301 + P 101: IF SWALLOWED: If medical advice is needed, have product container or label at hand.
P 501: Dispose of contents/container to hazardous or special waste collection point.
P 273: Avoid release to the environment.

Additional Markings: None.
Classification according to EEC - Regulations: Yes.
Applicable Exemptions: Yes.
Hazard Identification: Dangerous for the environment
Component(s): Zinc monoglycerolate

Additional Markings: None.

The above mentioned labelling is valid for distribution to industrial user.

2.3.Other hazards

Observe the usual precautionary measures for handling chemicals.

3. SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Substances

Dangerous Ingredients:

CAS - No.	Material	m% - range	Symbol	H-phrases
87189-25-1	Zinc monoglycerolate	100%	N	Aquatic acute: H400 Aquatic chronic: H410

3.2. Mixtures

Chemical Characterisation: N/A

Dangerous Ingredients: N/A

4. SECTION 4. FIRST AID MEASURES

4.1. Description of first aid measures

4.1.1. Inhalation:

After inhalation of product / fumes of fire leave contaminated area and provide for fresh air.
In the event of symptoms occurring, seek medical treatment.

4.1.2. Skin Contact:

Wash away with water.
In the event of symptoms occurring, seek medical treatment.

4.1.3. Eye Contact:

In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

4.1.4. Ingestion:

Do not cause vomiting. Rinse mouth out and drink plenty of water afterwards.
Consult physician.

4.1.5. Most important symptoms and effects, both acute and delayed

None known.

4.1.6. Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

5. SECTION 5. FIRE FIGHTING MEASURES

5.1. Extinguishing media

5.1.1. Suitable Extinguishing Media :

Use dry chemical, CO_2, water spray or "alcohol" foam.

5.1.2. Extinguishing Media to Avoid:

None.

5.2. Special hazards arising from the substance or mixture

In the case of fire, the following product(s) may form: inorganic dust

5.3. Advice for fire fighters

5.3.1. Special Protective Equipment:

Wear positive pressure self-contained breathing apparatus. Wear full protective clothing.

5.3.2. Additional Information:

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations

6. SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

See chapter 8.2.2
Keep clear of dust.

6.2. Environmental precautions

Do not contaminate water. Do not let product enter drains.

Local authorities should be advised if significant spillages cannot be contained.

6.3. Methods and material for containment and cleaning up

Use mechanical handling equipment. Avoid dust formation.
If recycling is not practicable, dispose of in compliance with local regulations.

6.4. Reference to other sections

None.

7. SECTION 7. HANDLING AND STORAGE

7.1. Precautions for safe handling

7.1.1. Precautions for Safe Handling :

Do not inhale dust. Avoid contact with eyes and skin.
Remove contaminated, saturated clothing immediately.
Do not eat, drink or smoke during work.
Wash hands before breaks and after work.

7.1.2. Precautions in Case of Fire and Explosion :

Normal measures for preventive fire protection.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1. Storage Instructions :

Keep containers tightly closed in a dry, cool and well-ventilated place. Store in original container.
Avoid subsoil penetration. Avoid dust formation. Handle and open container with care.

7.2.2. Store away from :

Store away from oxidising agents.

7.2.3. Further Information on Storage Conditions :

None.

7.3. Specific end use(s)

n.av.

8. SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1. Control parameters

Material: Zinc monoglycerolate **Limit Value:** n.av.

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Provide for appropriate exhaust ventilation and dust collection at machinery.

8.2.2. Individual protection measures

8.2.3. Respiratory Protection : Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust). Recommended Filter type:P2

8.2.4. Hand Protection : In case of prolonged skin contact use protective gloves.
Protective gloves complying with EN 374 (butyl-rubber, break through time > 8h)
The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other.
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

8.2.5. Eye Protection: Goggles

8.2.6. Skin Protection: No.

8.2.7. Environmental exposure controls: n.av.

9. SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

9.1.1. Form : Powder **Colour :** white **Odour :** odourless

9.1.2. pH-value, undiluted : n.ap.

9.1.3. Boiling point / Boiling - range (°C): n.ap., Melting point / Melting range (°C): 380-400 approx. (Softening point)

9.1.4.	Flash point (°C, c.c.):	n.ap.
9.1.5.	Flammability (EEC A10/A13):	No.
9.1.6.	Ignition temperature (°C):	n.av.
9.1.7.	Oxidising properties:	No.
9.1.8.	Explosion limits (Vol.%) lower:	n.av., upper: n.av.
9.1.9.	Vapour pressure:	n.ap.
9.1.10.	Density (g/ml):	n.av.
9.1.11.	Partition coefficient, n-Octanol/Water:	n.ap.
9.1.12.	Viscosity:	n.ap.
9.1.13.	Solvent content (m %):	Not relevant

9.2. Other information

9.2.1.	Thermal decomposition (°C):	>450°C
9.2.2.	Vapour density (Air = 1):	n.ap.

10. SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity
None.

10.2. Chemical stability
Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions
No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid
No conditions to be specially mentioned.

10.5. Incompatible materials
Reactions with strong oxidising agents.

10.6. Hazardous decomposition products
No decomposition if stored and applied as directed. To avoid thermal decomposition, do not overheat.
Toxic fumes and/or gases may be produced above the decomposition temperature (450ºC)

11. SECTION 11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

11.1.1. Acute Health Effects:

Inhalation:	Dusts may irritate mucous membrane and respiratory tract
Ingestion, LD50 rat, (mg/kg):	2000 mg/Kg
Skin - contact, LD50 rat, (mg/kg):	No irritant effect
Irritation (to skin / eye):	Mildly irritating - not to be labelled.
Sensitisation:	None.

11.1.2. Subacute / Chronic Toxicity :

Carcinogenicity:	n.av.
Mutagenicity:	n.av.
Teratogenicity:	n.av.
Narcotic Effects:	n.av.

11.1.3. Practical Experience

11.1.3.1. Observations relevant for classification :
None.

11.1.3.2. Further Observations :
None.

12. SECTION 12. ECOLOGICAL INFORMATION

12.1. Toxicity
Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

12.2. Persistence and degradability
Hydrolyses slowly in aqueous media.

12.3. Bioaccumulative potential
n.av.

12.4. Mobility in soil
n.av.

12.5. Results of PBT and vPvB assessment
n.av.

12.6. Other adverse effects
n.av.

13. SECTION 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

13.1.1. Recommendation: D 10 Waste - Code - No.: The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

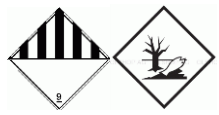
In addition comply with the regional authorities.

13.2. Contaminated Packaging

13.2.1. Recommendation: Wash with suitable cleaner. Otherwise as described under Residues.

13.2.2. Safe Handling: As described under Residues.

14. SECTION 14. TRANSPORT INFORMATION

	ADR	IMDG	IATA
14.1. UN number	3077	3077	3077
14.2. UN proper shipping name	UN 3077 Environmentally hazardous substance, solid, n.o.s. (Zinc monoglycerolate)	Environmentally hazardous substance, solid, n.o.s. (Zinc monoglycerolate)	Environmentally hazardous substance, solid, n.o.s. (Zinc monoglycerolate)
14.3. Transport hazard class(es)	9 	9	9
14.4. Packing Group	III	III	III
14.5. Environmental hazards		Yes	

14.6. Special precautions for user
Transport-category: 3
Classification Code: M7

Classified as Hazardous

Hazard - No.: 90
LQ: 5 L

F-A, S-F

Packing Instructions (Passenger)
964
Packing Instructions (Cargo)
964

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

n.av.

15. SECTION 15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

No data available.

15.2. Chemical safety assessment: None.

16. SECTION 16. OTHER INFORMATION

Text of H phrases mentioned in Section 3

H 400: Very toxic to aquatic life.
H 410: Very toxic to aquatic life with long lasting effects.

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