

MATERIAL SAFETY DATA SHEET

ZINC STEARATE

1 IDENTIFICATION OF THE PRODUCT AND THE COMPANY

1.1 IDENTIFICATION OF THE SUBSTANCE / PREPARATION:

ZINC STEARATE

1.2 USE OF THE SUBSTANCE OR PREPARATION

Lubricant release additive.

1.3 IDENTIFICATION OF THE COMPANY:

RAR Resin & Chemical Industries JLT

11th Floor, Jumeirah Lake Towers, P.O. Box: 47381, Dubai UAE

Tel: +971 4 4356517 / +971 4 4356516

Email: info@rarresin.com

Fax: +971 4 4356518

Website: www.rarresin.com

2 HAZARD IDENTIFICATION

2.1 When used appropriately, no adverse effects are known to be caused by the product.

3 COMPOSITION / INFORMATION ABOUT THE COMPONENTS

3.1 Name: Zinc salt of fatty acids C16-C18 (Zinc Stearate)

3.2 CAS number: 91051 - 01 - 3 (557-05-1)

3.3 EINECS number: 293-049-4 (209-151-9)

4 FIRST AID MEASURES

4.1 INHALATION: Not necessary

4.2 CONTACT WITH SKIN: Remove contaminated clothing immediately, and dispose of it in a controlled way

4.3 INGESTION: Rinse out mouth and drink water.

5 FIRE-FIGHTING MEASURES

5.1 SUITABLE EXTINGUISHING METHODS: Dry Foam, chemical powder, carbon anhydride, water spray.

5.2 METHODS NOT SUITABLE FOR SAFETY REASONS: Water jet.

5.3 SPECIAL EXPOSURE HAZARDS: The fumes may contain zinc oxide. Do not breathe the fumes, vapours or dust.

5.4 SPECIAL PROTECTIVE EQUIPMENT: Respirator.

6 ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS: Prevents dust formation. Remove ignition sources- do not smoke.

6.2 ENVIRONMENTAL PRECAUTIONS: Keep out of sewers, drains, surface and underground water and the ground.

6.3 METHODS FOR CLEANING UP: Spray spilled material with water and take it up mechanically. Store in a closed container.

DISCLAIMER

This information contained in the data sheet is to the best of our knowledge correct and up to date. Under well-defined conditions. Its accuracy or suitability under the actual conditions of any independent use is not guaranteed and must be determined by the user. All advice given about this product is given in good faith. Since as we have no control over conditions of substrate, manufacturer and seller cannot accept any liability in connection with the use of the product relative to coverage, performance, injury, or damage, unless we specify in writing to do so. The information in this data sheet is subject to change without prior notice and it is the user responsibility to ensure it is current. For further information and advice please contact RAR RESIN Technical Service Department.

7 HANDLING AND STORAGE

7.1 HANDLING:

The usual precautionary measures have to be applied when dealing with chemicals. Prevent dust depositing. Take preventive measures against dust explosion. Keep away from ignition sources.

7.2 STORAGE:

Store in closed original packing in dry conditions at room temperature, away from direct sunlight and strong odours.

7.3 SPECIES USES

Lubricant release additive.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 TLV - TWA: (mg/m³ MAK) 6

Respiratory protection:

Use approved breathing mask.

Hand protection:

Gloves

Eye protection:

Goggles

Skin protection:

Overall

8.3 SPECIFIC HYGIENE METHODS:

Do not eat, drink, or smoke while working. Wash hands before breaks. Change contaminated clothing. Clean whole body after working.

8.4 ADDITIONAL INFORMATION:

Preventive skin-care lotion is recommended. Use anti-static working shoes.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 PHYSICAL FORM

Appearance:	Powder
Colour:	White
Odour:	Typical

9.2 PROPERTIES

	VALUE	UNIT	METHOD
Melting Point:	122 aprox	°C	
Freezing point:	n.a.	°C	
Cloud point	n.a.	°C	
Boiling point	n.d.	°C	
Flash point:	n.d.	°C	
Ignition temperature	435	°C	
Autoignition:	420	°C	
Oxidising properties:	None		
Danger of explosion			
- Product:	n.d.		
- Mixture powder / air:	Yes		
Explosion limits			
- Lower:	30	g/m ³	
- Upper:	n.d.	g/m ³	
Vapour pressure (20°C):	n.a.	mbar	
Density (20°C):	1,02 aprox	g/mL	
Apparent density	0.30 aprox	g/mL	
Solubility (20 °C)			
- Water solubility:	Negligible		
- Fat solubility:	Soluble in acetone, ethanol, mineral and vegetable oils.		
pH (20°C, H₂O):	7-9		

10 STABILITY AND REACTIVITY

10.1 CONDITIONS TO AVOID:

Sources of Ignition. Dust formation.

10.2 MATERIALS TO AVOID:

None

10.3 HAZARDOUS

DECOMPOSITION

PRODUCTS:

DISCLAIMER

This information contained in the data sheet is to the best of our knowledge correct and up to date. Under well-defined conditions. Its accuracy or suitability under the actual conditions of any independent use is not guaranteed and must be determined by the user. All advice given about this product is given in good faith. Since as we have no control over conditions of substrate, manufacturer and seller cannot accept any liability in connection with the use of the product relative to coverage, performance, injury, or damage, unless we specify in writing to do so. The information in this data sheet is subject to change without prior notice and it is the user responsibility to ensure it is current. For further information and advice please contact RAR RESIN Technical Service Department.

10.4 ADDITIONAL INFORMATION:	Dust-air mixture can explode.
11 TOXICOLOGICAL INFORMATION	
11.1 ACUTE EFFECTS:	LD50 oral-rat > 5 g/Kg
11.2 IRRITATION:	n.d.
11.3 SENSITISATION:	n.d.
11.4 CHRONIC TOXICITY:	n.d.
11.5 ROUTE OF ENTRY:	Inhalation of dust and ingestion.
11.6 ADDITIONAL INFORMATION:	No adverse effects are known when used appropriately.
12 ECOLOGICAL INFORMATION	
12.1 WATER SOLUBILITY (20°C):	0,9 mg/L
12.2 DISTRIBUTION COEFFICIENT	1,2
12.3 BIODEGRADABILITY: (28 days)	93
12.4 COD:	145 mg O2/g
12.5 BOD5:	20 mg O2/g
BOD28:	135 mg O2/g
12.6 FISH TOXICITY: (LC50)	n.d. mg/L
12.7 BACTERIA TOXICITY: (EC50)	1560 mg/L
12.8 ALGA TOXICITY (LC50)	n.d. mg/L
12.9 DAPHNIA TOXICITY (LC50)	n.d. mg/L
12.10 WATER CONTAMINATION CLASS	nwg (not hazardous for water). Annex 1 VwVwS
13 DISPOSAL CONDITIONS	
13.1 PRODUCT:	Dispose of the product in accordance with local, state and federal regulations. Waste disposal by controlled incineration or designated landfill subject to applicable local, state and federal regulations
13.2 PACKAGING:	Contaminated packaging materials is hazardous to health or environment. Controlled disposal according to applicable local, state and federal regulations.
14 TRANSPORT INFORMATION	
14.1 ADR:	n.a.
14.2 IMCO:	n.a.
14.3 IATA:	n.a.
14.4 UN NUMBER:	n.a.
14.5 ADDITIONAL INFORMATION:	Not subject to transport regulations.
15 REGULATORY INFORMATION	
15.1	Directive 67/548/EEC and its modifications, adaptations and later transpositions. According to our data, this product is not dangerous in the sense of this directive.
16 OTHER INFORMATION	
16.1 INCI NAME:	Zinc Stearate

DISCLAIMER

This information contained in the data sheet is to the best of our knowledge correct and up to date. Under well-defined conditions. Its accuracy or suitability under the actual conditions of any independent use is not guaranteed and must be determined by the user. All advice given about this product is given in good faith. Since as we have no control over conditions of substrate, manufacturer and seller cannot accept any liability in connection with the use of the product relative to coverage, performance, injury, or damage, unless we specify in writing to do so. The information in this data sheet is subject to change without prior notice and it is the user responsibility to ensure it is current. For further information and advice please contact RAR RESIN Technical Service Department.