Glory Global
CO.,LTD

Material Safety Data Sheet

Product name	12-Hydroxystearic acid

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

1.1. Product name	12-Hydroxystearic acid
1.2. CAS-No.	106-14-9
1.3. Relevant identified uses of the substance or mixture and uses advised against	
Identified uses	Laboratory chemicals, Synthesis of substances
1.4. Details of the supplier of the safety data sheet	
Company	Glory Global CO.,LTD
Address	C-208, 10, Nowon-ro 15-gil, Nowon-gu, Seoul, Korea
Emergency Phone	+82 2 6223 0862

2. Hazards identification

2.1. Classification of the substance or mixture	Not a hazardous substance or mixture.
2.2. GHS Label elements, including precautionary statements	Not a hazardous substance or mixture.
2.3, Hazards not otherwise classified (HNOC) or not covered by GHS	None

3. Composition/information on ingredients

3.1. Synonyms	12-Hydroxy Stearic Acid
3.2. EC No.	203-366-1
3.3. CAS-No.	106-14-9
3.4. Formula	C18H36O3
3.5. Molecular weight	300.48 g/mol

Component	Classification	Concentration
12-Hydroxystearic acid		
		≤ 100 %

4. First aid measures

4.1. Description of first aid measures	
General advice	Move out of dangerous area.
If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration.
In case of skin contact	Wash off with soap and plenty of water.
In case of eye contact	Flush eyes with water as a precaution.
If swallowed	Never give anything by mouth to an unconscious person. Rinse mouth with water.
4.2. Most important symptoms and effects, both acute and delayed	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
4.3. Indication of any immediate medical attention and special treatment needed	No data available

5. Firefighting measures

5.1. Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
5.2. Special hazards arising from the substance or mixture	Carbon oxides
5.3. Advice for firefighters	Wear self-contained breathing apparatus for firefighting if necessary.
5.4. Further information	No data available

6. Accidental release measures

6.1. Personal precautions, protective equipment and	Avoid dust formation. Avoid breathing vapours, mist or gas. For personal protection see section 8.
6.2. Environmental precautions	No special environmental precautions required.
6.3. Methods and materials for containment and cleaning up	Sweep up and shovel. Keep in suitable, closed containers for disposal.
6.4. Reference to other sections	For disposal see section 13.

7. Handling and storage

7.1. Precautions for safe handling	Further processing of solid materials may result in the formation of combustible dusts.

	The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.
7.2. Conditions for safe storage, including any	Keep container tightly closed in a dry and well-ventilated place. Storage class (TRGS 510): 13: Non Combustible Solids
7.3. Specific end use(s)	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. Exposure controls/personal protection

8.1. Control parameters	
Components with workplace control parameters	Contains no substances with occupational exposure limit values.
8.2. Exposure controls	
Appropriate engineering controls	General industrial hygiene practice.
Personal protective equipment	
a) Eye/face protection	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU)
b) Skin protection	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Full contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M) Splash contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be
c) Body Protection	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
d) Respiratory protection	Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
e) Control of environmental exposure	No special environmental precautions required.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties	
Appearance	Form: solid
Odour	No data available
Odour Threshold	No data available
pH	No data available
Melting point/freezing point	Melting point/range: 75 - 78 °C (167 - 172 °F) at 1,013 hPa - OECD Test Guideline 102
Initial boiling point and boiling range	265 °C 509 °F at 1,013 hPa - OECD Test Guideline 103
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	not auto-flammable - Relative self-ignition temperature for solids
Upper/lower flammability or explosive limits	No data available
Vapour pressure	0.000 hPa at 20 °C (68 °F) - OECD Test Guideline 104
Vapour density	No data available
Relative density	No data available
Water solubility	0.00098 g/l at 20 °C (68 °F) - OECD Test Guideline 105 - slightly soluble
Partition coefficient: n-octanol/water	log Pow: 5.7 - OECD Test Guideline 117
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	The substance or mixture is not classified as oxidizing.
9.2. Other safety information	No data available

10. Stability and reactivity

10.1. Reactivity	No data available
10.2. Chemical stability	Stable under recommended storage conditions.
10.3. Possibility of hazardous reactions	No data available
10.4. Conditions to avoid	No data available
10.5. Incompatible materials	Bases, Oxidizing agents, Reducing agents
10.6. Hazardous decomposition products	Hazardous decomposition products formed under fire conditions. - Carbon oxides Other decomposition products - No data available In the event of fire: see section 5

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity	No data available
Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory or skin sensitisation	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	
a) IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
b) ACGIH	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
c) NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
d) OSHA	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available
Additional Information	RTECS: WI3850000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. Ecological information

12.1. Toxicity

Toxicity to daphnia and other aquatic invertebrates	Remarks: No data available(12-Hydroxystearic acid)
Toxicity to algae	Remarks: No data available(12-Hydroxystearic acid)

12.2. Persistence and degradability

Biodegradability	Result: - Readily biodegradable. Remarks: Read-across (Analogy)
12.3. Bioaccumulative potential	No data available
12.4. Mobility in soil	No data available
12.5. Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not
12.6. Other adverse effects	No data available

13. Disposal considerations

13.1 Waste treatment methods

Product	Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.
Contaminated packaging	Dispose of as unused product.

14. Transport information

14.1, DOT (US)	Not dangerous goods
14.2. IMDG	Not dangerous goods
14.3. IATA	Not dangerous goods

15. Regulatory information

15.1. SARA 302 Components	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
15.2. SARA 313 Components	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
15.3. SARA 311/312 Hazards	Acute Health Hazard
15.4. Massachusetts Right To Know Components	No components are subject to the Massachusetts Right to Know Act.
15.5. Pennsylvania Right To Know Components	

12-Hydroxystearic acid	CAS-No. 106-14-9	Revision Date

15.6. New Jersey Right To Know Components

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15.7. California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. Other information

16.1. Further information