

# Material Safety Data Sheet



**PRODUCT NAME: 12-HYDROXY STEARIC ACID**

## CHEMICAL PRODUCT AND DISTRIBUTOR IDENTIFICATION

TRADE NAME: 12-Hydroxy Stearic Acid  
COMMON CHEMICAL NAME: 12-Hydroxy Stearic Acid  
CAS#: 106-14-9  
DATE: March 21, 2008

DISTRIBUTOR: ACME-HARDESTY COMPANY  
ADDRESS: 450 Sentry Parkway  
Blue Bell, PA 19422  
TELEPHONE: (866) 226-3834  
FAX: (215) 591 – 3620  
EMERGENCY: CHEMTREC (800) 424-9300

## COMPOSITION / INFORMATION ON INGREDIENTS

COMPOSITION: Fatty Acid  
Minimum 82% is 12-Hydroxy Stearic Acid by GLC

CAS #	Chemical Name	Concentration	R-phrases
106-14-9	Fatty Acid	Hydrogenated Fatty Acids Having –OH group at the secondary position	

## HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

12 HSA is not a hazardous material nor does it contain any hazardous ingredients.

## FIRST AID MEASURES

INGESTION: Rinse the mouth  
INHALATION: Remove to fresh air immediately.  
SKIN CONTACT: Wash with plenty of water & soap.  
EYE CONTACT: Rinse with plenty of water.

## FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Foam, Carbon Dioxide, Water, Dry Chemical Powder  
UNSUITABLE EXTINGUISHING MEDIA: No Restrictions  
SPECIAL PROTECTIVE EQUIPMENT: Standard Fireman's Body Protection and self-contained breathing apparatus is recommended.  
PRECAUTIONS: In Case Of Fire, Carbon Monoxide and Carbon Dioxide Can Be Formed

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ACCIDENTAL RELEASE MEASURE

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PERSONAL PRECAUTIONS: Wear suitable respiratory protection.  
ENVIRONMENT PRECAUTIONS: None  
METHOD OF CLEAN UP: Sweep dry and flush with water. If melt is spilled, allow it to solidify.

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HANDLING AND STORAGE

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HANDLING: Avoid dust formation and away from sources of ignition.  
STORAGE: Keep containers closed and in dry shaded area and away from heat.

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EXPOSURE CONTROL / PERSONAL PROTECTION

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ENGINEERING MEASURES: No special measures required  
CONTROL PARAMETERS: Limit values of inert dust : max 6mg/m<sup>3</sup>  
Biological Standards  
PERSONAL PROTECTION: The usual precautions taken for handling chemicals.  
Respiratory Equipment: Dust Mask  
Hand Protection: Protective Gloves  
Eye Protection: Protective Glasses  
Skin Protection: None

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PHYSICAL/CHEMICAL CHARACTERISTICS

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APPEARANCE: Creamy to white flakes or powder  
ODOR: Natural, Non Offending  
pH: Not Applicable  
BOILING POINT: Above 300°C  
MELT POINT: 72 - 77°C  
FLASH POINT: 210°C  
FLAMMABILITY (solid, gas): None  
AUTOFLAMMABILITY: None  
EXPLOSIVE PROPERTIES: dust can be explosive  
OXIDISING PROPERTIES: None  
VAPOR PRESSURE: Not Applicable  
RELATIVE DENSITY: About 0.95 @ 25°C  
SOLUBILITY: Water: Insoluble  
PARTITION COEFFICIENT: N-octanol/water Not Applicable

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STABILITY AND REACTIVITY

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CONDITIONS TO AVOID: Temperatures higher than 72°C  
MATERIALS TO BE AVOIDED: Alkalis  
HAZARDOUS DECOMPOSITION PRODUCTS: None if handled & stored according to prescription products.

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TOXICOLOGICAL INFORMATION

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ACUTE TOXICITY

Oral (LD50) (Rat): >5000 mg/kg based on data taken from similar product

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ECOLOGICAL INFORMATION

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MOBILITY: Not Determined

DEGRADABILITY: Readily biodegradable

ECOTOXICITY SHORT & LONG TERM EFFECTS: Acute Fish Toxicity: LCO>100 mg/L

Bacteria Toxicity: ECO> 100 mg/L

OTHER ADVERSE EFFECTS: None

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DISPOSAL INFORMATION

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Can be land filled together with household refuse in accordance with the regulations.

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TRANSPORT INFORMATION

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Not classified as hazardous

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REGULATORY INFORMATION

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According to EEC Council Directive, it is not a dangerous substance, but suitable precautions of handling chemicals should be taken.