

1. Product and Company Identification

Material name **Stearic acid**
 Revision date 16-01-2017
 Chemical class Stearic Acid

2. Hazards Identification

Emergency overview **Danger! Flammable solid.** The toxicological properties of this material have not been fully investigated. Causes eye, skin, and respiratory tract irritation. Target Organs: Respiratory system, eyes, skin.

Potential health effects

Eyes Causes eye irritation. May cause chemical conjunctivitis.

Skin Causes skin irritation. May be harmful if absorbed through the skin. May cause gastrointestinal irritation with nausea, vomiting and diarrhea. The toxicological properties of this substance have not been fully investigated.

Inhalation Aspiration of material into the lungs may cause chemical pneumonitis, which may be fatal. May be harmful if swallowed. Causes respiratory tract irritation. The toxicological properties of this substance have not been fully investigated

Ingestion May be harmful if inhaled.

3. Composition / Information on Ingredients

Name : Stearic acid
 CAS #: 57-11-4
 % by Weight : 100

4. First Aid Measures

First aid procedures

Eye contact Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

Skin contact Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops

Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion Call a physician if symptoms develop or persist. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by

Notes to physician

mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear. Symptoms may be delayed.

General advice

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire Fighting Measures

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Flammable solid. May burn rapidly with flare burning effect. May re-ignite after fire is extinguished. Dangerous fire hazard in the form of dust when exposed to heat or flame.

Extinguishing Media:

Contact professional fire-fighters immediately. Cool containers with flooding quantities of water until well after fire is out. Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Protection of firefighters

Specific hazards arising from the chemical

Protective equipment and precautions for firefighters

During fire, gases hazardous to health may be formed. Move containers from fire area if you can do so without risk.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

6. Accidental Release Measures

Small Spill:

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements

Large Spill:

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Methods for containment

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Collect spillage.

Methods for cleaning up

Ventilate the contaminated area. Extinguish all flames in the vicinity. Wear appropriate protective equipment and clothing during clean-up. Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is

without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Do not allow material to contaminate ground water system. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the MSDS.

7. Handling and Storage

Handling

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Do not taste or swallow. Avoid breathing mist or vapor. Avoid contact with skin. Avoid contact with eyes. Avoid prolonged exposure. Avoid contact with clothing. Do not use in areas without adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash thoroughly after handling. Wash contaminated clothing before reuse. Avoid release to the environment. Do not empty into drains.

Storage

Keep away from heat, sparks and open flame. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the MSDS).

8. Exposure Controls / Personal Protection

Engineering controls

Ensure adequate ventilation, especially in confined areas. Eye wash facilities and emergency shower must be available when handling this product.

Personal protective equipment

General

Use personal protective equipment as required.

Eye / face protection

Wear eye/face protection. Wear safety glasses with side shields (or goggles). Do not get in eyes. Eye wash fountain is recommended.

Skin protection

Wear appropriate chemical resistant clothing. Chemical resistant gloves.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

General hygiene considerations

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before

eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical & Chemical Properties

Physical state	Solid. (Crystalline solid. Powdered solid.)
Color	White to yellowish.
pH	Not applicable.
Flash point	> 201 °F (> 93.9 °C)
Boiling Point:	Decomposition temperature: 350°C (662°F)
Melting Point:	69.4 (156.9°F)

10. Stability & Reactivity

Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials. Strong oxidizing agents. Strong acids.
Incompatible materials	Upon decomposition, this product may yield sulfur dioxide and oxides of sulfur.
Hazardous decomposition products	No dangerous reaction known under conditions of normal use.
Possibility of hazardous reactions	

11. Toxicological Information

Product	Test Results
Padapon AE-230	Acute Dermal LD50 Rabbit: > 2000 mg/kg Acute Oral LD50 Rat: > 2000 mg/kg
Sensitization	Not classified.
Acute effects	May be harmful if swallowed. May be harmful in contact with skin.
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
Skin corrosion/irritation	Causes skin irritation.
Mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Reproductive effects	Contains no ingredient listed as toxic to reproduction

12. Ecological Information

Ecotoxicological data

Product	Test Results
Padapon AE-230	EC50 Algae: > 56 ppm 72 hours EC50 Daphnia: > 13 ppm 48 hours LC50 Fish: > 6.3 ppm 96 hours
Persistence / degradability	Expected to be inherently biodegradable.
Bioaccumulation / Accumulation	No data available.
Mobility in environmental media	No data available for this product.

13. Disposal Considerations

Waste codes

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Disposal instructions
Waste from residues / unused products

Dispose in accordance with all applicable regulations. Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport Information

Notes

Refer to bill of lading or container label for DOT or other transportation hazard classification, if any.

15. Regulatory Information

Reportable Quantity

Not available

16. Other Information

HMIS® ratings

Health: 1
Flammability: 1
Physical hazard: 0
Personal protection: X

NFPA ratings

Health: 2
Flammability: 1
Instability: 0

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