Material Safety Data Sheet

Aluminum Stearate
IR-800

IRRH SPECIALTY CHEMICALS CO., LTD.
SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

IRRE SPECIALTY CHEMICALS CO., LTD.
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SUBSTANCE: ALUMINUM STEARATE
TRADE NAMES/SYNONYMS:
OCTADECANOIC ACID, ALUMINUM SALT; ALUMINIUM TRISTEARATE, PURE; ALUMINUM STEARATE; ALUMINIUM STEARATE; TRIBASIC ALUMINUM STEARATE; ALUMINUM STEARATE
OHS00975; RTECS WI2820000
CHEMICAL FAMILY: carboxylic acids, salt

CREATION DATE: Dec 04 2005
REVISION DATE: Feb 07 2006

SECTION 2 COMPOSITION, INFORMATION ON INGREDIENTS

COMPONENT: ALUMINUM TRISTEARATE
CAS NUMBER: 637-12-7
EC NUMBER (EINECS): 211-279-5
PERCENTAGE: 100.0

SECTION 3 HAZARDS IDENTIFICATION

NFPA RATINGS (SCALE 0-4): HEALTH=1  FIRE=1  REACTIVITY=0
EC CLASSIFICATION (CALCULATED): Not determined.
EMERGENCY OVERVIEW:
COLOR: white to yellow
PHYSICAL FORM: powder

MAJOR HEALTH HAZARDS: No significant target effects reported.
PHYSICAL HAZARDS: Dust/air mixtures may ignite or explode.

POTENTIAL HEALTH EFFECTS:
INHALATION:
SHORT TERM EXPOSURE: mild irritation
LONG TERM EXPOSURE: no information on significant adverse effects

SKIN CONTACT:
SHORT TERM EXPOSURE: no information on significant adverse effects
LONG TERM EXPOSURE: no information is available

EYE CONTACT:
SHORT TERM EXPOSURE: mechanical irritation
LONG TERM EXPOSURE: no information is available

INGESTION:
SHORT TERM EXPOSURE: no information on significant adverse effects
LONG TERM EXPOSURE: no information is available

CARCINOGEN STATUS:
OSHA: N
NTP: N
IARC: N

SECTION 4  FIRST AID MEASURES

INHALATION: Remove from exposure immediately. Use a bag valve mask or similar device to perform artificial respiration (rescue breathing) if needed. Get medical attention.

SKIN CONTACT: Remove contaminated clothing, jewelry, and shoes immediately. Wash with soap or mild detergent and large amounts of water until no evidence of chemical remains (at least 15-20 minutes). Get medical attention, if needed.

EYE CONTACT: Wash eyes immediately with large amounts of water or normal saline, occasionally lifting upper and lower lids, until no evidence of chemical remains. Get medical attention immediately.

INGESTION: If vomiting occurs, keep head lower than hips to help prevent aspiration. Get medical attention, if needed.

SECTION 5  FIRE FIGHTING MEASURES

FIRE AND EXPLOSION HAZARDS: Slight fire hazard. Dust/air mixtures may ignite or explode.

EXTINGUISHING MEDIA: regular dry chemical, carbon dioxide, water, regular foam
Large fires: Use regular foam or flood with fine water spray.

FIRE FIGHTING: Move container from fire area if it can be done without risk. Do not scatter spilled material with high-pressure water streams. Dike for later disposal. Use extinguishing agents appropriate for surrounding fire. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

LOWER FLAMMABLE LIMIT: 0.015 g/L

SECTION 6  ACCIDENTAL RELEASE MEASURES

OCCUPATIONAL RELEASE:
Collect spilled material in appropriate container for disposal. Keep out of water supplies and sewers. Keep unnecessary people away, isolate hazard area and deny entry.

SECTION 7  HANDLING AND STORAGE

Store and handle in accordance with all current regulations and standards. Store in a tightly closed container. Keep separated from incompatible substances.

SECTION 8  EXPOSURE CONTROLS, PERSONAL PROTECTION
EXPOSURE LIMITS:
ALUMINUM TRISTEARATE:
  STEARATES:
    10 mg/m³ ACGIH TWA

VENTILATION: Provide local exhaust ventilation system. Ventilation equipment should be explosion-resistant if explosive concentrations of material are present. Ensure compliance with applicable exposure limits.

EYE PROTECTION: Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

CLOTHING: Wear appropriate chemical resistant clothing.

GLOVES: Wear appropriate chemical resistant gloves.

RESPIRATOR: Under conditions of frequent use or heavy exposure, respiratory protection may be needed. Respiratory protection is ranked in order from minimum to maximum. Consider warning properties before use.
  Any dust, mist, and fume respirator.
  Any air-purifying respirator with a high-efficiency particulate filter.
  Any powered, air-purifying respirator with a dust, mist, and fume filter.
  Any powered, air-purifying respirator with a high-efficiency particulate filter.

For Unknown Concentrations or Immediately Dangerous to Life or Health -
  Any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply.
  Any self-contained breathing apparatus with a full facepiece.

SECTION 9  PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: solid
COLOR: white to yellow
PHYSICAL FORM: powder
ODOR: Not available
MOLECULAR WEIGHT: 877.41
MOLECULAR FORMULA: (C-H3-(C-H2)16-C-O-O)₃ Al
BOILING POINT: Not applicable
VAPOR PRESSURE: Not applicable
VAPOR DENSITY: Not applicable
SPECIFIC GRAVITY (water=1): 1.010
WATER SOLUBILITY: insoluble
PH: Not applicable
VOLATILITY: Not applicable
ODOR THRESHOLD: Not available
EVAPORATION RATE: Not applicable
COEFFICIENT OF WATER/OIL DISTRIBUTION: Not available
SOLVENT SOLUBILITY:
  Soluble: alcohol, alkali, benzene, mineral oils, turpentine oils
  Insoluble: petroleum ether

SECTION 10  STABILITY AND REACTIVITY

REACTIVITY: Stable at normal temperatures and pressure.
CONDITIONS TO AVOID: Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.

INCOMPATIBILITIES: oxidizing materials

ALUMINUM TRISTEARATE:
- OXIDIZERS (STRONG): Fire and explosion hazard.

HAZARDOUS DECOMPOSITION:
- Thermal decomposition products: oxides of carbon

POLYMERIZATION: Will not polymerize.

SECTION 11  TOXICOLOGICAL INFORMATION

ALUMINUM TRISTEARATE:

TOXICITY DATA:
- >3.0 g/kg skin-guinea pig LD50; >5.0 g/kg oral-rat LD50

ACUTE TOXICITY LEVEL: Insufficient Data.

HEALTH EFFECTS:

INHALATION:
- ACUTE EXPOSURE: High concentrations of dust may cause coughing and mild temporary irritation.
- CHRONIC EXPOSURE: Repeated or prolonged exposure to high concentrations of dust may cause increased mucous flow in the nose and respiratory system.

SKIN CONTACT:
- ACUTE EXPOSURE: Reported to be non-irritating.
- CHRONIC EXPOSURE: No data available.

EYE CONTACT:
- ACUTE EXPOSURE: May cause mechanical irritation.
- CHRONIC EXPOSURE: No data available.

INGESTION:
- ACUTE EXPOSURE: May cause temporary discomfort.
- CHRONIC EXPOSURE: No data available.

SECTION 12  ECOLOGICAL INFORMATION

Not available

SECTION 13  DISPOSAL CONSIDERATIONS

Dispose in accordance with all applicable regulations.
SECTION 14    TRANSPORT INFORMATION

No classification assigned.

LAND TRANSPORT ADR/RID: No classification assigned.

AIR TRANSPORT IATA/ICAO: No classification assigned.

MARITIME TRANSPORT IMDG: No classification assigned.

SECTION 15    REGULATORY INFORMATION

U.S. REGULATIONS:
TSCA INVENTORY STATUS: Y

TSCA 12(b) EXPORT NOTIFICATION: Not listed.
CERCLA SECTION 103 (40CFR302.4): N
SARA SECTION 302 (40CFR355.30): N
SARA SECTION 304 (40CFR355.40): N
SARA SECTION 313 (40CFR372.65): N
SARA HAZARD CATEGORIES, SARA SECTIONS 311/312 (40CFR370.21):
  ACUTE: N
  CHRONIC: N
  FIRE: N
  REACTIVE: N
  SUDDEN RELEASE: N

STATE REGULATIONS:
  California Proposition 65: N

EUROPEAN REGULATIONS:
  EC NUMBER (EINECS): 211-279-5

GERMAN REGULATIONS:
  WATER HAZARD CLASS (WGK): 0 (Self Classification by Manufacturers and Distributors)

SECTION 16    OTHER INFORMATION

MSDS SUMMARY OF CHANGES

SECTION 3    HAZARDS IDENTIFICATION

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