



Safety Data Sheet (SDS)

Revision / Review Date: 3/6/2014

1. Chemical Product and Company Identification

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| Product Name: | 60 R |
| Distributed By: | HB Chemical 1665 Enterprise Parkway Twinsburg Oh 44087 Phone - 330-920-8023 |
| MSDS Prepared By (w Suppliers Input): | HB Chemical |
| Chemical Name / Family: | Rubber Grade Stearic Acid |
| OSHA Status | Not Hazardous |

For emergency health, safety, and environmental information, calls 330-920-8023

For emergency transportation information, in the United States: call CHEMTREC at 800-424-9300

2. Hazard(s) Identification

Warning: INHALATION OR INGESTION MAY CAUSE MUCOUS MEMBRANE IRRITATION. MAY CAUSE EYE IRRITATION MAY FORM EXPLOSIVE DUST CLOUDS IN AIR. LIMITED TOXICITY DATA IS AVAILABLE ON THIS SPECIFIC PRODUCT; THIS HEALTH HAZARD ASSESSMENT IS BASED ON THE RESULTS OF SCREENING TESTS.

Eye Contact: No may cause eye irritation in man.

Skin Contact: No irritation is likely to develop following contact with human skin. This product will probably not be absorbed through human skin.

Ingestion: Low oral toxicity, but ingestion may cause irritation of the gastrointestinal tract. No toxic effects are expected following ingestion of this product.

Inhalation: Unlikely to be hazardous by inhalation because of low vapor pressure of material at ambient temperature. Vapors and aerosols will probably irritate respiratory passages.

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| <u>HMIS Hazard Ratings:</u> | Health- 1, Flammability - 1, Reactivity - 0 |
| <u>HMIS limitation statement:</u> | The HMIS hazard ratings numbers are meant to give a quick indication of the relative hazards associated with the product. All of the information contained in the SDS should be consulted to assist with the safe handling of this material. |
| <u>Principal Hazardous Components:</u> | Not listed by ACGIH, IARC, NIOSH, NTP OR OSHA. |

3. Composition / Information on Ingredients

COMPONENT NAME CAS NUMBER % (W/W) OSHA PEL ACGIH TLV

Saturated straight chain 57-11-4 60-100 No PEL established No TLV established

aliphatic monocarboxylic acids mainly palmitic and stearic acid.

Ingredients not precisely identified are proprietary or nonhazardous.

Values are not product specifications.

4. First Aid Measures

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| <u>Inhalation:</u> | If symptoms develop, move victim away from exposure and into fresh air. Administer oxygen if breathing is difficult. |
| <u>Eyes:</u> | Flush eyes with plenty quantities of water while holding eyelids open. If symptoms persist or if there is any visual difficulty, consult physician. |
| <u>Skin:</u> | Remove contaminated clothing and launder it before reuse. Wash exposed area with soap and water. If irritation persists, consult a physician. |
| <u>Ingestion:</u> | Do not induce vomiting. Seek medical attention. If individual is drowsy, do not give anything by mouth. |

5. Fire-Fighting Measures

FLASH POINT, °F: 356°F (open cup)

FLASH POINT, °C: 180°C (open cup)

AUTO-IGNITION TEMPERATURE, °F: 662

AUTO-IGNITION TEMPERATURE, °C: 350

FLAMMABLE LIMITS: No data.

Suitable Extinguishing Media: Water fog, alcohol foam, carbon dioxide, dry chemical.

Special Fire Fighting Procedures: A self-contained breathing apparatus and suitable protective clothing must be worn in fire conditions.

Hazardous Combustion Products: Thermal decomposition will evolve irritant vapors.

Unusual fire and explosion hazards: The material may form explosive dust clouds in air.

SENSITIVITY TO MECHANICAL IMPACT: No data.

SENSITIVITY TO STATIC DISCHARGE: No data

6. Accidental Release Measures

Steps to be taken in case material is Spilled: Wear appropriate personal protective equipment.
Contain spill. Sweep up and recover or mix material with moist Absorbent and shovel into a chemical waste container. Wash Residue from spill area with water containing detergent and flush to a Sewer serviced by a permitted wastewater treatment facility.

Waste Disposal: Reclaim or dispose of in accordance with local, state, and federal regulations

7. Handling and Storage:

HANDLING: Normal precautions should be observed as for handling all chemicals. Control dust formation. Extra care should be taken to prevent burns from contact with hot material. Follow procedures specified in the National Fire Protection Association Codes and Standards for handling combustible dusts. Maintain good housekeeping to avoid dust buildup. Prevent eye contact. Do not swallow.

SPECIFIC USES OF THE PRODUCT: Smoldering can occur upon leakage onto fibrous insulation material.

STORAGE: Store in original containers

8. Exposure Controls / Personal Protection

Exposure Controls: No OSHA PEL assigned. No ACGIH TLV assigned. Minimize exposure in accordance with good hygiene practice.

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| <u>Ventilation:</u> | Provide adequate ventilation. |
| <u>Respiratory Protection:</u> | Respiratory Protection is not normally needed if controls are adequate. |
| <u>Protective Gloves:</u> | Rubber, Neoprene if splashing is a problem. |
| <u>Eye Protection:</u> | Chemical tight goggles to prevent eye contact. |
| <u>Skin and Body Protection:</u> | Impervious gloves |
| <u>Other Precautions:</u> | Eyewash and safety shower easily accessible to the work area. |
| <u>Decontamination Facilities:</u> | Eye bath, washing facilities (sinks / showers) |

9. Physi COLOR : Off-White

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| <u>FORM :</u> | Solid @ 20 °C |
| <u>ODOR :</u> | Faint odor |
| <u>pH :</u> | Not applicable. |
| <u>BOILING POINT (°F) :</u> | 401 – 437 (10 hPa) |
| <u>BOILING POINT (°C) :</u> | 205 – 225 (10 hPa) |
| <u>FLASH POINT (°F) :</u> | 356(open cup) |
| <u>FLASH POINT (°C) :</u> | 180(open cup) |
| <u>AUTOIGNITION TEMPERATURE (°F) :</u> | 662 |
| <u>AUTOIGNITION TEMPERATURE (°C) :</u> | 350 |
| <u>FLAMMABLE LIMITS :</u> | No data. |
| <u>EXPLOSIVE PROPERTIES :</u> | No data. |
| <u>OXIDIZING PROPERTIES :</u> | Not to be expected |
| <u>SOLUBILITY (WATER) :</u> | Insoluble |
| <u>SOLUBILITY (OTHER) :</u> | Soluble in many organic solvents |
| <u>PARTITION COEFFICIENT :</u> | Estimated > 3 |
| <u>DYNAMIC VISCOSITY (mPa.s) :</u> | 10 @ 65 °C |
| <u>DENSITY (g/ml) :</u> | 0.85@ 75 °C |
| <u>SOLIDIFICATION POINT (°F) :</u> | 131 |
| <u>SOLIDIFICATION POINT (°C) :</u> | 55 |

10. Stability and Reactivity

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| <u>Stability:</u> | This product is stable under normal conditions. |
| <u>Incompatibility (Materials to Avoid):</u> | Strong oxidizing agents |
| <u>Conditions to Avoid:</u> | None known |
| <u>Hazardous Decomposition Products:</u> | Thermal decomposition will evolve irritant vapors. |
| <u>Hazardous Polymerization:</u> | Will not occur |

11. Toxicological Information

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| <u>EYE CONTACT:</u> | Rabbit Draize Nonirritating. |
| <u>SKIN CONTACT:</u> | Rabbit Draize 24 hours Nonirritating. |
| <u>INGESTION:</u> | LD50 rat >_ 2g/kg Practically nontoxic. |
| <u>CHRONIC:</u> | A chronic ingestion study in animals has shown that repeated doses produce no significant effects. |
| <u>CARCINOGENITY:</u> | Studies in animals have shown that repeated doses produce no carcinogenic effects. |
| <u>MUTAGENICITY:</u> | There is no evidence of mutagenic potential. Ames test: Negative |
| <u>TOXICOLOGICALLY SYNERGISTIC PRODUCTS:</u> | None known. |

12. Ecological Information

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| <u>ENVIRONMENTAL FATE & DISTRIBUTION:</u> | The product is essentially insoluble in water. |
| <u>PERSISTENCE & DEGRADATION:</u> | (OECD 301B) (28 days) ≥ 70% |
| <u>TOXICITY:</u> | Not toxic at concentrations well above the water solubility LC50 (48 hour) Cyprinus carpio ≥ 1000mg/l EC50 (16 hour) Pseudomonas putida ≥ 100mg/l |

13. Disposal Considerations

RCRA (RESOURCE CONSERVATION AND RECOVERY ACT) CLASSIFICATION:

SPECIFICALLY LISTED WASTES: Not applicable.

CHARACTERISTIC WASTES

IGNITABILITY: Not applicable.

CORROSIVITY: Not applicable.

REACTIVITY: Not applicable.

TOXICITY: Not Applicable.

DISPOSAL METHOD: Disposal in accordance with local, state or national legislation.

CONTAINER DISPOSAL: Empty container retains product residue.

Observe all hazard precautions.

Do not distribute, make available, furnish or reuse empty container except for storage and shipment of original product.

Remove all product residues from container and puncture or otherwise destroy empty container before disposal.

14. Transport Information

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| <u>D.O.T. Shipping Name</u> | Not regulated. |
| <u>Air - ICAO (international Civil Aviation Organization)</u> | Not regulated. |
| <u>Sea - IMDG (International Maritime Dangerous Goods)</u> | Not regulated. |

15. Regulatory Information

INVENTORY STATUS:

EU (EINECS/ELINCS/NLP): Compliant.

USA (TSCA): Compliant.

CANADA (DSL): Compliant.

AUSTRALIA (AICS): Compliant.

JAPAN (ENCS): Compliant.

CHINA (IECSC): Compliant.

KOREA (ECL): Compliant.

PHILIPPINES (PICCS): Compliant.

OSHA HAZARD COMMUNICATION STANDARD,

29 CFR 1910.1200, HAZARD SUMMARY:

HEALTH HAZARDS: None

PHYSICAL HAZARDS: None

WHMIS CLASSIFICATION: Non-controlled (Nonhazardous).

CERCLA & SARA REGULATIONS (40 CFR 355, 370, & 372):

This material contains the following chemicals subject to the reporting requirements of SARA 313:

****No SARA 313 Chemicals for this chemical****

SARA 311/312 HAZARD CHATEGORIES:

Immediate: No

Delayed: No

Fire: No

Pressure: No

Reactivity: No

16. Other Information

The above information has been compiled from what we believe to be credible sources. To our knowledge the information is accurate and reliable, however, it is not guaranteed. Any recommendations issued by HB Chemical personnel or literature is derived from experience and by no means should be taken as fact or construed as a recommendation to violate of any law, regulation or patent. It is the users responsibility to determine the suitability of any HB supplied material in their application. The individual conditions of each customer are well outside of our control and we cannot be held liable for its functionality and use. Please contact our office should you need specific information beyond what is supplied above. As with all Chemical usage safety precautions beyond the stated are highly recommended.