MATERIAL SAFETY DATA SHEET

Internal lubricant HG-60

Section 1: Chemical Product & Company Identification:

- **Chemical Product Name** **HG-60**
- **Product application** **PVC Profile, PVC sheet etc.**
- **Manufacturer** **Shandong Rike Chemical Co., Ltd.**
- **Company's Address** **Weifang Export Processing Zone, Weifang City, Shandong Province, China, 2621205**
- **Phone Number** **86-536-7522336/7522366**
- **FAX** **86-536-7522300**
- **Emergency Number** **86-536-6281376**
- **Prepared By** **Wang Qian**

Section 2: The details of our only representative for REACH

REACH Complicance Services Limited

306 Capel building, Mary's abbey, Dublin 7, Ireland

Phone: +31 20 4037343

TEL: 35318899951

FAX: 35316865683

Email:info@reach24h.com

Section 3: Hazards Identification

- **Emergency Overview**
  - ★ **A pale yellow flake solid with a mild odor**
  - ★ **In limited circumstances dust may from explosive mixtures in air, minimize dust generation.**
  - ★ **If heated, fumes irritating to eye and respiratory tract may develop.**
- **Potential Health Effects**
  - ★ **Inhalation: The monomer vapors given off at higher temperature may**

cause irritation, resulting in nauseas, headache and dizziness.

★ Eyes contact: Fine dust produced when handling and monomer's vapor generated may irritate the eyes and as with any solid, may cause mechanical irritation eyes to tear.

★ Skin contact: Fine dust and monomer's vapor may irritate the skin, resulting in persons who are allergic eruption and irritation rarely.

★ Ingestion: Ingestion of large quantities may result in stomach and abdominal pain, nausea and vomiting, diarrhea and convulsions.

Section 4: Chemical Composition Information Of The Product

Component	CAS-No	Concentration
Glyceryl monostearate	123-94-4	99.0%-100.0%
Individual residual monomers	Not Required	＜0.1%

Section 5: First Aid Measures

- **Inhalation** — Remove the person affected to the place with fresh air. Consult a physician if need. If conscious, give water to drink.
- **Eyes contact** — Flush eyes with a large amount of clean water for at least 15 minutes. Consult oculist if needed.
- **Skin contact** — Wash the affected skin area with soap and water, consult a dermatologist if necessary.
- **Ingestion** — Material causes no harmful effects under normal circumstances, but if vomiting occurs, get medical attention immediately. Never give anything by mouth to an unconscious person. Consult a physician if necessary.

Section 6: Fire And Explosion Hazard Information

Flash point	≥225℃
Lower explosion limit	N.A.
Upper explosion limit	N.A.

Lower dust explosion limit **N.A**

Fire extinguishment media **Dry chemical foam,carbon dioxide and water fog**

- **Fire extinguishment procedure**

The persons taking part in fire fighting should wear the self contained breathing apparatus. Spray water to cool the product containers. For avoiding the dust cloud be created, straight water stream should not be used. If possible, the product bags should be removed from fire area if possible to prevent the product from degradation at higher temperature.

- **Usual fire and explosion hazard**

The vigorous burning of product will produce intense heat. Polymer dust ignites or explodes at its concentration reaching the certain limit.

- **Substances released during fire**

When the material is adequately burned, it will form moisture and carbon dioxide, on the contrary, when material is heated, irritating fumes may develop, these fumes may contain hydrocarbon with different molecular weight(monomers).

Section 7: Accidental Release Measures

Measures to be taken in case of the products are released or spilled:

- **Ventilate the work site where the products are released so as to degrade the dust concentration.**
- **Remove all the ignition source from the affected area.**
- **The released material may be sweep up and then shovel into proper bags or containers for recovery or disposal.**
- **The released product may be reused if not contaminated.**
- **If the dust concentration is too high, it may be controlled by spraying water fog on the material and then sweep it up for recovery.**

Section 8: Handling And Storage

- **Handling**

★ **When transferring , avoid creating dust.**

★ **Minimize chance of static spark, ground all equipment.**

★ **when using the product, for avoid potential dust explosive, please keep the workshop room temperature and keep the most suitable moisture.**

★ **Measure should be taken to avoid eye and skin contact. Handle and process material in the well ventilated place.**

● Storage

★ **The material should be stored in door, keeping dry and well ventilation. The general warehouse may meet the storage requirement.**

★ **The product should not be stored close to or in such hot places as steam pipes, heaters and other heat sources.**

● Further information

Keep handling area and processing equipment clean, especially the storage tanks and hoppers, so as to avoid dust explosion. Electrostatic terminators should be installed to the equipment such as storage tank, hooper and transferring pipe, to avoid ignition. All electrical switches used in these areas should be anti-explosion type based on local regulations.

Section 9: Exposure Controls And Personal Protection

● Exposure Controls

★ **Engineering Controls**

During processing operation which involves heating, ventilate area thoroughly to avoid exposure to vapors that may occur. These vapors may contain component monomers of the materials and exposure is to be avoided.

★ **Ventilation**

For degrading fine dust concentration, the local handling area should ventilated. If overheating may occurs during processing, exhaust ventilation equipment should provided.

● **Personal Protection**

Respiratory protection	**Wear local government or regulation specified respirator or equivalent one.**
Protective gloves	**Impervious gloves are recommended to avoid irritation.**
Eye protection	**Safety glasses with side shield should be used.**
Other protective equipment	**Eye-flush facility should be provided at site.**

Section 10: Physical And Chemical Property

Appearance	**Pale yellow flake solid**
Viscosity	**N.A**
Freezing point	**N.A**
Boiling point	**N.A**
Vapor pressure	**N.A**
Vapor density	**N.A**
PH Value	**≤10.0**
Bulk density	**0.80-0.90g/cm^3**
Solubility in water	**Insoluble**
Percentage volatile	**1.50 weight percentage or less**
Evaporation rate	**N.A**
Melting point	**54.0～60.0℃**

Section 11: Stability And Reactivity

Stability	**Stable under normal condition.**
Condition to avoid	**Hot places, close to heat source and so on.**
Materials to avoid	**Prolonged contact acids, alkalies, and strong oxidizing agents may attack or dissolve the product.**
Hazardous decomposition products	**Decomposition may be detectable at above 280℃, but the quantity of gaseous decomposition is small until temperature above 400 ℃ are reached. Gaseous decomposition may generate methyl acrylic, acrylic**

	monomers etc.
Polymerization	**Product will not undergo polymerization.**

Section 12: Toxicological Information

No published toxicity data on this product is known to exist. The product has been produced without using such toxic organic metallic materials as Chromium (Cr), Lead (Pb), Cadmium (Cd), Mercury (Hg), Tin(Sn), and Arsenic(As) compound. Also, such plasticizers as DOP (n-Di-Octyl pathalate), DOA (D-Di-Octyl Adipate) and polyester plasticizers were not used as raw materials for these products.

Section 13: Ecological Information

- **Environment & Partitioning: No. bioconcentration is expected because of high moleculer weight. In the terrestrial environment, this material will sink and remain in the sediment.**
- **Degradation & Transformation: This water-insoluble acrylic copolymer solid is expected to be inserted in the environment. Surface phodegradation is expected.**
- **Ecotoxicity data are not available.**
- **Avoid spill on ground, vegetation and water.**

Section 14: Disposal Considerations

- **Do not discharge diffluent containing this product into municipal sewers or open bodies of water.**
- **All recovered material should be transferred to a container for disposal.**
- **Incinerate or landfill the wasted in an approved facility that complies with local state and national regulations.**

Section 15: Transport Information

Not classified as dangerous or hazardous for transporting.

Section 16: Regulatory Informations

- **Workshop Classifications**
  - ★ **This product is not considered hazardous under the OSHA Hazard Communication Standards(29 CFR 1910,1200).**
  - ★ **This product is not a "controlled product" under the Canadian Workplace Hazardous Materials Information System(WHMIS).**
- **TSCA**

  All components of these products are listed on the U.S. EPA Toxic Substance Control Act (TSCA) Inventory.
- **DSL**

  All components of the product are listed on Environment Canada's Domestic Substance list (DSL).
- **Reportable quantities:**

  Reportable quantities of trace ingredients in polymer might be exceeded for a release greater than 5,000,000 1bs. of the product.
- **Section 302/304 extremely Hazardous Substances: None**
- **Section 311 Hazardous Substances: None**

  Acute no Chronic no Fire no Pressure no Reactive no.
- **Section 313 Toxic Chemicals: none greater than deminimus**

Section 17: Other Informations

- **Issued: NOV.13, 2012**
- **Revised: August 01, 2012**
- **Editor: Wang Qian E-mail:wangqian@rikechem.com**
- **Verification & authorisation: by R&D Center of Shandong Rike Chemical Co., Ltd.**
- **The information provided here is for reference only. The specification will be provided in the quality certificate or in the contract. It is the user's**

responsibility to test the material and its suitability for a process. We have no control over what another party does with the material and we cannot take any responsibility for another party's action. Nor will we be responsible for any indirect damages while using our products. The user is welcome to contact us with questions on our products.