


1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

Product Name	Plastic Process Additives
Product Code	TK-1 (SS-1)
Recommended Use	Plastic
Supplier	Tsong-Kai Enterprises Co., Ltd. Lot 2, Block 2, Metrotech Industrial Park. Maysan, Valenzuela City 1440, Philippines
Contact Number	+63 (2) 8970308 ,+63 (2) 2919951
Emergency Telephone Number	+63 (2) 2945215 +1 (727) 9346392
Other Information	See Section 14 for transportation information related to the Bill of Lading, other shipping documents.

2. HAZARDS IDENTIFICATION

GHS Classification	ASPIRATION HAZARD, Category 1
GHS Label Elements Symbol(s)	
GHS Hazard Statements	<p>PHYSICAL HAZARDS: Not classified as a physical hazard under GHS criteria.</p> <p>HEALTH HAZARDS: H304: May be fatal if swallowed and enters airways.</p> <p>ENVIRONMENTAL HAZARDS: Not classified as an environmental hazard under GHS criteria.</p>
Signal Words	Warning
GHS Precautionary Statements Prevention	P201: Obtain special instructions before use. P281: Use personal protective equipment as required.
Response	P308+P313: IF exposed or concerned: Get medical advice/attention. P301: IF SWALLOWED: P313: Get medical advice/attention. P331: Do NOT induce vomiting.
Storage	P405: Store locked up.
Disposal	P501: Dispose of contents and container to appropriate waste site or reclaimer in accordance with local and national regulations
Other Hazards which do not result in classification	Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis. Prolonged/repeated contact may cause defatting of the skin which can lead to dermatitis. Used oil may contain harmful impurities. Ingestion may result in nausea, vomiting and/or diarrhoea.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Family	Esters
CAS	64742-55-8

4. FIRST AID MEASURES

Inhalation	No treatment necessary under normal conditions of use. If symptoms persist, obtain medical advice.
Skin Contact	Remove contaminated clothing. Flush exposed area with water and follow by washing with soap if available. If persistent irritation occurs, obtain medical attention.
Eye Contact	Flush eye with copious quantities of water. If persistent irritation occurs, obtain medical attention.
Ingestion	If swallowed, do not induce vomiting; transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. If any of the following delayed signs and symptoms appear within the next 6 hours, transport to the nearest medical facility: fever greater than 101°F (37°C), shortness of breath, chest congestion or continued coughing or wheezing.
Most Important Symptoms/ Effects, Acute & Delayed	Defatting dermatitis signs and symptoms may include a burning sensation and/or a dried/cracked appearance. Ingestion may result in nausea, vomiting and/or diarrhoea. If material enters lungs, signs and symptoms may include coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath, and/or fever. The onset of respiratory symptoms may be delayed for several hours after exposure.
Immediate medical attention, special treatment	Treat symptomatically. Call a doctor or poison control center for guidance.

5. FIRE FIGHTING MEASURES

Specific hazards arising from Chemicals	Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide. Unidentified organic and inorganic compounds.
Suitable Extinguishing Media	Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
Unsuitable Extinguishing Media	Do not use water in a jet.
Protective Equipment & Precautions for Fire Fighters	Proper protective equipment including breathing apparatus must be worn when approaching a fire in a confined space.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures	Avoid contact with skin and eyes.
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Environmental Precautions	Use appropriate containment to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.
Methods and Material for Containment and Clean Up	Slippery when spilt. Avoid accidents, clean up immediately. Prevent from spreading by making a barrier with sand, earth or other containment material. Reclaim liquid directly or in an absorbent. Soak up residue with an absorbent such as clay, sand or other suitable material and dispose of properly.
Additional Advice	Local authorities should be advised if significant spillages cannot be contained.

7. HANDLING AND STORAGE

General Precautions	Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols. Properly dispose of any contaminated rags or cleaning materials in order to prevent fires. Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.
Precautions for Safe Handling	Avoid prolonged or repeated contact with skin. Avoid inhaling vapour and/or mists. When handling product in drums, safety footwear should be worn and proper handling equipment should be used.
Conditions for Safe Storage	Keep container tightly closed and in a cool, well-ventilated place. Use properly labelled and closeable containers. Storage Temperature: 0 - 50 °C / 32 - 122 °F
Recommended Materials	For containers or container linings, use mild steel or high density polyethylene.
Other Advice	Polyethylene containers should not be exposed to high temperatures because of possible risk of distortion.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Biological Exposure Index (BEI)	Biological Limit Values (BLV) have not been established for this material.
Appropriate Engineering Controls	The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include: Adequate ventilation to control airborne concentrations. Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.
Individual Protection Measures	Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

Respiratory Protection

No respiratory protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material. If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for combined particulate/organic gases and vapours [boiling point >65°C(149 °F)].

Hand Protection

Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended.

Eye Protection

Wear safety glasses or full face shield if splashes are likely to occur.

Protective Clothing

Skin protection not ordinarily required beyond standard issue work clothes. It is good practice to wear chemical resistant gloves.

Thermal Hazards

Not applicable.

Monitoring Methods

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate.

Environmental Exposure Controls

Minimise release to the environment. An environmental assessment must be made to ensure compliance with local environmental legislation.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Transparency liquid.
Odour	Odeourless
Specific Gravity	0.91±0.005
Moisture	0.1% Max.
Viscosity	39.89 cp @ 40 °C
Boil Point	250 °C up
PH Value	5.6
Flammability	Not applicable.

10. STABILITY AND REACTIVITY

Chemical Stability	Stable
Possibility of Hazardous Reactions	Data not available.
Conditions to Avoid	Extremes of temperature and direct sunlight.
Incompatible Materials	Strong oxidising agents.
Hazardous Decomposition Products	Hazardous decomposition products are not expected to form during normal storage.
Hazardous Polymerisation	Not applicable.
Sensitivity to Mechanical Impact	Not applicable.

11. TOXICOLOGICAL INFORMATION

Basis for Assessment	Information given is based on data on the components and the toxicology of similar products.
Likely Routes of Exposure	Skin and eye contact are the primary routes of exposure although exposure may occur through inhalation or following accidental ingestion.
Acute Oral Toxicity	Data not available.
Acute Dermal Toxicity	Data not available.
Acute Inhalation Toxicity	Data not available.
Skin Corrosion/Irritation	Expected to be slightly irritating. Prolonged/repeated contact may cause defatting of the skin which can lead to dermatitis.
Serious Eye Damage/Irritation	Expected to be slightly irritating.
Respiratory Irritation	Inhalation of vapours or mists may cause irritation.
Respiratory or Skin Sensitisation	Not expected to be a skin sensitiser.
Aspiration Hazard	Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.
Germ Cell Mutagenicity	Not considered a mutagenic hazard.
Carcinogenicity	Data not available.
Reproductive and Developmental Toxicity	Not expected to impair fertility. Not expected to be a developmental toxicant.
Specific target organ toxicity - single exposure	Not expected to be a hazard.
Specific target organ toxicity - repeated exposure	Not expected to be a hazard.

12. ECOLOGICAL INFORMATION

Basis for Assessment	Incomplete ecotoxicological data are available for this product. The information given below is based partly on a knowledge of the components and the ecotoxicology of similar products.
Acute Toxicity	Data not available.
Fish	Practically non toxic: LL/EL/IL50 > 100 mg/l
Aquatic Invertebrates	Practically non toxic: LL/EL/IL50 > 100 mg/l
Algae	Practically non toxic: LL/EL/IL50 > 100 mg/l
Microorganisms	Practically non toxic: LL/EL/IL50 > 100 mg/l
Mobility	Floats on water.

13. DISPOSAL CONSIDERATIONS

Material Disposal	Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Do not dispose into the environment, in drains or in water courses. MARPOL - see International Convention for the Prevention of Pollution from Ships (MARPOL 73/78) which provides technical aspects at controlling pollutions from ships.
Container Disposal	Dispose in accordance with prevailing regulations, preferably to a recognised collector or contractor. The competence of the collector or contractor should be established beforehand.
Local Legislation	Disposal should be in accordance with applicable regional, national, and local laws and regulations.

14. TRANSPORT INFORMATION

Land (as per ADR classification): Not regulated	This material is not classified as dangerous under ADR regulations.
IMDG	This material is not classified as dangerous under IMDG regulations.
IATA (Country variations may apply)	This material is not classified as dangerous under IATA regulations.

15. REGULATORY INFORMATION

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

16. OTHER INFORMATION

SDS Version V15.1**Effective Date:** Nov, 27, 2015**Disclaimer** This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of this product. This document issued by electronic process, no sign or stamp requests.