

# Material Safety Data Sheet: CROSS LINKABE POLYETHELENE COMPOUNDS (SILANE GRAFTED)

## PELLET

Form CPT-2

### 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product name	:	POLYETHELENE COMPOUND Grade KI- XL-03 / SC 10
CAS Name & No.	:	3901.10.90
Manufacturer's name and Address	:	<b>Kalpena Industries Limited.</b> Survey No.24/3, Demni Road, Dadra, Dadra & Nagar Haveli- 396 230
Emergency telephone number	:	<b>91-260-2993375 / 3096435 / 5544484</b> <b>91-260 2242684 / 2241994 / 2244100</b>
MSDS Contact	:	<b>Mr. R.K. Kothari</b>

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No.	WT%
LDPE	9002-86-2	< 90%
SILANE	Mixture	> 10%
Proprietary Additives	Mixture	< 5%

### 3. HAZARDS IDENTIFICATION

#### PRECAUTIONARY INFORMATION

##### Caution:

If proper procedures for processing **CROSS LINKABE POLYETHELENE COMPOUNDS (SILANE GRAFTED)** are not followed, processing fumes and vapors can be liberated at elevated temperatures. The composition of these fumes or vapors may vary widely according to the individual processing procedures. Processors must determine for themselves the appropriate equipment and procedures for their use.

## POTENTIAL HEALTH EFFECTS

### Primary Routes of Exposure:

Inhalation of process emissions during periods of elevated temperature.

### Eye:

Vapors or fumes emitted during processes involving elevated temperatures may cause eye irritation.

### Skin Contact:

Vapors or fumes emitted during processes involving elevated temperatures may cause skin irritation.

### Skin Absorption:

This material is initially a dry solid pellet or; no absorption is likely to occur in its initial form.

## 4. HAZARDS IDENTIFICATION CONTINUED

### Ingestion:

Slightly toxic by ingestion. Pellet form may become airborne during handling, resulting in the potential for incidental ingestion. Vapors or fumes emitted during processes involving elevated temperature may be ingested at low levels. Adequate ventilation should be provided.

### Inhalation:

Vapors or fumes emitted during processes involving elevated temperatures may be inhaled if not adequately ventilated.

## HAZARD CLASSIFICATION

### Acute Effects:

Associated with the handling of **POLYTHELENE** as well as fumes or vapors liberated from both **POLYTHELENE** and pellets at high temperatures may be irritating to the eyes, skin and respiratory tract if not adequately ventilated.

### Chronic Effects:

Chronic exposure to fumes and vapors from heated or thermally decomposed plastics may cause an asthma-like syndrome due to the inhalation of process vapors or fumes. The onset of irritation maybe delayed for several hours. Fumes or vapors may accumulate within the facility during normal operating procedures that involve elevated temperatures. Exposure to these elevated concentrations, if not adequately ventilated, may have significant health effects.

### Carcinogenic:

Some pigments used to color **CROSS LINKABE POLYTHELENE COMPOUNDS (SILANE GRAFTED)** may contain metals, which in some of their chemical forms are suspected or confirmed carcinogens. These metals are bound in the crystalline structure of the pigment, and to the best of the supplier's knowledge, do not present a significant health risk. Additionally, the low levels of pigments used in **POLYTHELENE** pellet compounds are also bound in the polymer matrix and to the best of our knowledge do not present a significant health risk.

## 5. FIRST AID MEASURES

### Inhalation

No adverse effects anticipated under normal conditions if adequately ventilated. However, if exposure occurs, remove victim to fresh air. Obtain medical attention if irritation persists.

### Skin Contact

No adverse effects anticipated under normal conditions. However, if vapor or fume exposure occurs, wash skin thoroughly with soap and water. Obtain medical attention if irritation persists.

### Eye Contact

In the event of eye irritation, flush eyes with water for at least 15 minutes. Obtain medical attention if irritation persists.

### Ingestion

If ingestion occurs, vomiting can be induced. Call a physician for additional medical advice.

## 6. FIRE FIGHTING MEASURES

### Flash Ignition Temperature

>600°F

Flammable Limits (% By Vol.)

Lower Explosive Limit (LEL)

Not Applicable

Upper Explosive Limit (UEL)

Not Applicable

### Autoignition Temperature

Not Applicable

### Fire Fighting Procedures/Fire Extinguishing Media

Carbon dioxide or water.

### Unusual Fire and Explosion Hazards

Dense smoke may be emitted when burned.

Rigid **CROSS LINKABLE POLYETHYLENE COMPOUNDS (SILANE GRAFTED)** may normally continue to burn after ignition without an external fire source. Do not allow fire fighting runoff water to enter streams, rivers or lakes. The water may collect HCl and other combustion products.

See Section 10 for additional information.

### Fire-Fighting Equipment

Wear full bunker gear including a positive pressure self-contained breathing apparatus in any closed space.

## 7. ACCIDENTAL RELEASE MEASURES

Sweep or vacuum material and place in a disposal container. See Section 11.

## 8. HANDLING AND STORAGE

### Handling and Storage

Store in protected dry area.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Engineering Controls

Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines. Adequate ventilation should be provided as conditions warrant.

### Respiratory Protection

For most conditions, no respiratory protection should be needed. However, in cases of dust formation, respiratory protection meeting the requirements of 29 CFR 1910.134 may be needed. If the material is overheated and starts smoldering, wear a positive pressure self contained breathing apparatus for respiratory protection.

### Eye Protection

Use safety glasses. If there is a potential for exposure to particles, which could cause mechanical injury to the eye, wear chemical goggles.

### Skin Protection

Normally clean clothing should be sufficient. However, skin protection meeting the requirements of 29 CFR 1910.132 may be needed. Wash skin contacted by **POLYTHELENE** pellets. Wash contaminated clothing before reusing.

## 9. EXPOSURE CONTROLS / PERSONAL PROTECTION CONTINUED

### Exposure Guidelines

None established for **CROSS LINKABLE POLYETHELENE COMPOUNDS (SILANE GRAFTED)**. The OSHA 8-hour time-weighted average PEL is 0.1 mg/m<sup>3</sup> for organotin and 50 ppm for carbon monoxide. Additional hazardous constituents may be released during processes involving elevated temperatures. These constituents are dependent on processing conditions and should be verified by processor. It is recommended that exposure to the form be kept below the limits set for nuisance:

PEL = Total 15 mg/m<sup>3</sup> : Respirable 5 mg/m<sup>3</sup> TWA

TLV = Total 10 mg/m<sup>3</sup> : Respirable 3 mg/m<sup>3</sup> TWA

Local and state regulations regarding the handling and storage of chemicals may vary widely. The user should acquire knowledge of these and other appropriate federal and state laws and regulations as well as consult with the proper authority for guidance in developing adequate handling procedures and constructing appropriate storage facilities.

## 10. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Pellets
Odor	:	Odorless to Mild
Boiling Point, Melting Point, Freezing Point	:	Not Applicable. 110 to 120°C
Specific Gravity (Water = 1.0)	:	0.930
Vapor Pressure (mm of Mercury)	:	<0.1
PH	:	Not Applicable Solid

## 11. STABILITY AND REACTIVITY

### Stability

Stable xx                      Unstable \_\_\_

### Polymerization

Hazardous polymerization will not occur.

### Hazardous Decomposition Products

Overheating may cause thermal degradation of **POLYETHELENE compound**. Fumes and vapors (including CO, CO<sub>2</sub>) may be generated during this thermal degradation. Emissions are also possible during normal operating conditions, and may accumulate within an inadequately ventilated facility.

## 12. DISPOSAL CONSIDERATIONS

### Waste Management Information:

All disposal practices must be in compliance with local, state and federal laws and regulations (contact local or state environmental agencies for specific rules).

## 13. TRANSPORTATION INFORMATION

Proper Shipping Name	:	
DOT Hazard Class	:	None
DOT Shipping ID No	:	None
DOT Labeling	:	None

## 14. OTHER INFORMATION

### IMPORTANT:

The information and data here in are believed to be accurate and have been compiled from sources believed to be reliable. It is offered for your consideration, investigation and verification. Buyer assumes all risk of use, storage, handling and disposal of the product in compliance with applicable federal, state and local laws and regulations.

**KALPENA INDUSTRIES LTD., MAKES NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, CONCERNING THE ACCURACY OR COMPLETEDNESS OF THE INFORMATION AND DATA HEREIN.** Kalpena Industries Ltd., will not be liable for claims relating to any party's use of or reliance on information and data contained herein regardless of whether it is claimed that the information and data are inaccurate, incomplete or otherwise misleading. This information relates to the material designated and may not be valid for such material used in combination with any other materials nor in any process.