



MATERIAL SAFETY DATA SHEET

Revision Date: Dec 1, 2010

Revision Number 1

SECTION 1: Identification

1.1 Product identifier

Product name	Polyethylene, chlorinated
CAS-No	64754-90-1
Synonyms	No information available

1.2 Recommended use of the chemical and restrictions on use

Recommended Use	Used in the plastics industry as an additive to modify a range of properties. Also used in rubber industry.
Uses advised against	Not available.

1.3 Supplier's details

Company	Shandong Yili-Spring Chemical Industry Co., Ltd.
Address	1016, Xinyue Fortune Center, Zouping County, Binzhou City, Shandong
Telephone	86-543-4865599

1.4 Emergency phone number

Emergency phone number	+86 15505433527
Service hours	Monday to Friday, 8am-5pm (Standard time zone: UTC/GMT +8 hours).

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

Not classified.

2.2 Label elements, including precautionary statements

Pictogram(s)	No symbol.
Signal word	No signal word
Hazard statement(s)	none
Precautionary statement(s)	
Prevention	none
Response	none
Storage	none
Disposal	none



2.3 Other hazards which do not result in classification

No data available

SECTION 3: Composition/information on ingredients

3.1 Substances

Component	CAS number	EC number	Weight %
Chlorinated polyethylene	64754-90-1	Not available	≥95%
Calcium distearate	1592-23-0	216-472-8	≤2.5 %
Talc (Mg ₃ H ₂ (SiO ₃) ₄)	14807-96-6	238-877-9	≤2.5 %

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

If inhaled

Remove to fresh air. Get medical attention immediately if symptoms occur.

Following skin contact

Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.

Following eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

Following ingestion

Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.

4.2 Most important symptoms/effects, acute and delayed

No data available

4.3 Indication of immediate medical attention and special treatment needed, if necessary

No data available

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Use dry chemical, carbon dioxide or alcohol-resistant foam.

5.2 Specific hazards arising from the chemical



Keep product and empty container away from the heat and sources of ignition.

5.3 Special protective actions for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand and full protective gear.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Spilled material may cause a slipping hazard. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

6.2 Environmental precautions

Prevent from entering into soil, ditches, sewers, waterways and/or groundwater.

See Section 12, Ecological Information.

6.3 Methods and materials for containment and cleaning up

Contain spilled material if possible. Sweep up.

Collect in suitable and properly labeled containers.

See Section 13, Disposal Considerations, for additional information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

No smoking, open flames or sources of ignition in handling and storage area. Good housekeeping and controlling of dusts are necessary for safe handling of product. Avoid breathing process fumes. Use with adequate ventilation. When appropriate, unique handling information for containers can be found on the product label. Workers should be protected from the possibility of contact with molten resin. Do not get molten material in eyes, on skin or clothing. Pneumatic conveying and other mechanical handling operations can generate combustible dust. To reduce the potential for dust explosions, electrically bond and ground equipment and do not permit dust to accumulate. Dust can be ignited by static discharge.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place.

Keep container tightly closed in a dry and well-ventilated place.

Store in accordance with good manufacturing practices.

Store away from incompatible materials (see Section 10).

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure limit values



Chlorinated polyethylene CAS# 64754-90-1	No data available
Talc CAS# 14807-96-6	Australia: 2 mg/m ³ respirable aerosol; Belgium: 2 mg/m ³ ; Canada: 3 mg/m ³ ; Denmark: 0.2 mg/m ³ respirable aerosol; Hungary: 2 mg/m ³ respirable aerosol; Spain: 2 mg/m ³ respirable aerosol; Sweden: 2 mg/m ³ inhalable aerosol; 1 mg/m ³ respirable aerosol; Switzerland: 2 mg/m ³ respirable aerosol; The Netherlands: 0.25 mg/m ³ respirable aerosol; USA - NIOSH: 2 mg/m ³ ; United Kingdom: 1 mg/m ³ respirable aerosol;
Calcium distearate CAS# 1592-23-0	ACGIH - TWA: 10 mg/m ³ ; USA - TLV: 10 mg/m ³ ; Germany - MAK: 6 mg/m ³ ;
Hydrogen chloride CAS# 7647-01-0	MAC: 1 mg/m ³ ; ACGIH: 2 ppm (Ceiling); OSHA Table Z-1: 7 mg/m ³ , 5 ppm (Ceiling); Hydrogen chloride may be generation under thermal degradation conditions.

8.2 Appropriate engineering controls

Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Wear appropriate protective eyeglasses or chemical safety goggles.

Skin protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory protection

No protective equipment is needed under normal use conditions.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

SECTION 9: Physical and chemical properties and safety characteristics



9.1 Information on basic physical and chemical properties

Physical state	Solid Powder
Colour	Off-white
Odour	Odorless
Melting point/freezing point	no data available
Boiling point or initial boiling point and boiling range	no data available
Flash point	no data available
Auto-ignition temperature	no data available
pH	no data available
Solubility	Insoluble in cold water
Partition coefficient n-octanol/water	no data available
Vapour pressure	1.2 - 1.8 Estimated (H ₂ O = 1)1.2-1.8
Density and/or relative density	no data available
Relative vapour density	no data available
Particle characteristics	no data available

9.2 Other Information

CPE is odourless nontoxic and white or pale yellow powder with an excellent resistance to weathering or age, ozone, chemicals and resistance to oil or flame. It is a colorable material with very good tenacity (flexible at -30°C, a brittle temperature under -70°C) and good miscible with various polymers due to its properties of both plastic and rubber. CPE 135 shows excellent resistance to very low temperature or high temperature.

SECTION 10: Stability and reactivity

10.1 Reactivity

no data available

10.2 Chemical stability

Stable under normal conditions

10.3 Possibility of hazardous reactions

None hazardous reaction known. Hazardous polymerization will not occur.

10.4 Conditions to avoid

Strong heating, open flames. Exposure to elevated temperatures can cause product to decompose

10.5 Incompatible materials

No data available



10.6 Hazardous decomposition products

None under normal use conditions

SECTION 11: Toxicological information

Acute toxicity

- Oral: no data available
- Inhalation: no data available
- Dermal: no data available

Skin corrosion/irritation

no data available

Serious eye damage/irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

STOT-single exposure

no data available

STOT-repeated exposure

Repeated or prolonged inhalation of dust particles may cause effects on the lungs. This may result in fibrosis (pneumoconiosis).

Aspiration hazard

A harmful concentration of airborne particles can be reached quickly when dispersed, especially if powdered.

SECTION 12: Ecological information

12.1 Toxicity



- Toxicity to fish: no data available
- Toxicity to daphnia and other aquatic invertebrates: no data available
- Toxicity to algae: no data available
- Toxicity to microorganisms: no data available

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Other adverse effects

no data available

SECTION 13: Disposal considerations

13.1 Waste disposal methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

SECTION 14: Transport information

14.1 UN Number

ADR/RID: Not dangerous goods. (For reference only, please check.) IMDG: Not dangerous goods. (For reference only, please check.) IATA: Not dangerous goods. (For reference only, please check.)

14.2 UN Proper Shipping Name

ADR/RID: Not dangerous goods. (For reference only, please check.) IMDG: Not dangerous goods. (For reference only, please check.) IATA: Not dangerous goods. (For reference only, please check.)

14.3 Transport hazard class(es)

ADR/RID: Not dangerous goods. (For reference only, please check.) IMDG: Not dangerous goods. (For reference only, please check.) IATA: Not dangerous goods. (For reference only, please check.)

14.4 Packing group, if applicable

ADR/RID: Not dangerous goods. (For reference only, please check.) IMDG: Not dangerous goods. (For reference only, please check.) IATA: Not dangerous goods. (For reference only, please check.)

14.5 Environmental hazards



ADR/RID: No

IMDG: No

IATA: No

14.6 Special precautions for user

no data available

14.7 Transport in bulk according to IMO instruments

no data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

Chemical name	Common names and synonyms	CAS number	EC number
Polyethylene, chlorinated	Polyethylene, chlorinated	64754-90-1	---
European Inventory of Existing Commercial Chemical Substances (EINECS)			Listed.
United States Toxic Substances Control Act (TSCA) Inventory			Listed.
DSD (67/548/EEC)			Not Listed.
New Zealand Inventory of Chemicals (NZIoC)			Listed.
Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)			Listed.
Korea Existing Chemicals List (KECL)			Listed.
Canada - DSL			Listed.
Australia - AICS			Listed.
Japan - ENCS			Listed.

SECTION 16: Other information

Information on revision

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Abbreviations and acronyms

- CLP:EU regulation (EC) No 1272/2008 on classification, labelling and packaging of chemical substances and mixtures.
- CAS:Chemical Abstracts Service (division of the American Chemical Society)
- EINECS:European Inventory of Existing Commercial Chemical Substances.
- RID:European Rail Transport.
- IMDG:International Maritime Code for Dangerous Goods.
- IATA:International Air Transport Association.
- OSHA:The United States Occupational Safety and Health Administration.
- TSCA:Toxic Substances Control Act, The American chemical inventory.



- DSD: Dangerous Substance Directive (67/548/EEC).
- IECSC: Inventory of existing chemical substances in China.
- DSL: Domestic Substances List, The Canadian chemical inventory.
- AICS: The Australian Inventory of Chemical Substances.
- ECL: Existing Chemicals List, the Korean chemical inventory.
- ENCS: Japanese Existing and New Chemical Substances.

References

- ESIS IUCLID Dataset: European chemical Substances Information System.
- HSDB: Hazardous Substances Data Bank.
- ICSC: International Chemical Safety Cards.
- GESTIS International Limit Values.

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. We as supplier shall not be held liable for any damage resulting from handling or from contact with the above product.