

Product name CoolPoly®***
MSDS number 870026B
Revision Number 0

AGHS/EN

Revision Date Apr.26.2016
Issuing date Nov.16.2017***

1. Identification of the substance/preparation and the company/undertaking

Product name
CoolPoly®***

The following SDS applies to products described by combinations of the following trade name, product grade and color code listed below.

Product Grade(s):
D5506***

Color Code:
See Section 16 for list of Color Codes

Manufacturer or supplier's details

Celanese (Shanghai) International Trading Co., Ltd.
Room 239, Xinmao Building
South Taizhong Road
Waigaoqiao Free Trade Zone
Shanghai, China

Celanese Pte Ltd
138 Robinson Road
#17-00
Singapore (068906)

Product Information
info-engineeredmaterials-asia@celanese.com

Emergency telephone number
(+65) 62656917 (Operations Room direct dial)
or fax request to +(65) 62664696 (Facsimile to Operations Room)
or email to posh.er@paccoffshore.com.sg

Synonyms:
Liquid crystal polymer / LCP

Identified uses
Plastic processing industry.

2. Hazards identification

Statements of Hazard

Not a dangerous product according to GHS

Product name CoolPoly@***
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3. Composition/Information on ingredients

Chemical characterization Liquid crystal polymer / LCP

Components	CAS-No	Percent %
Proprietary Filler A		30 - 50
Proprietary Filler B		1 - 10
Carbon black	1333-86-4	> 0.1

4. First aid measures

Skin
Cool skin rapidly with cold water after contact with molten polymer. Do not peel solidified product off the skin. Immediate medical attention is required.

Eyes
Immediately flush eye(s) with plenty of water. Call a physician if irritation persists.

Inhalation
Move to fresh air in case of accidental inhalation of vapors. Get medical attention immediately if symptoms occur.

Ingestion
If swallowed, do not induce vomiting - seek medical advice.

Notes to physician
This product is essentially inert and nontoxic. However, if it is heated at too high a temperature or if it is burned, gases may be released. Patients who have been exposed to off-gases may need to have their arterial blood gases and carboxyhemoglobin levels checked. If the carboxyhemoglobin levels are normal, asphyxia (carbon dioxide replacing oxygen) is a possibility. As with any fire, irritant gases may have formed. If patients may have inhaled high concentrations of irritating fumes, they should be monitored for delayed onset pulmonary edema.

5. Fire-fighting measures

NFPA: Health: 1 Flammability: 0 Instability: 0

Suitable extinguishing media
Water, Carbon dioxide (CO₂), Foam, Dry powder

Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases

Carbon monoxide
Carbon dioxide (CO₂)
Nitrogen oxides (NO_x)
Boron oxides

Special protective equipment for fire-fighters
Wear self-contained breathing apparatus and protective suit.

Other Information
Keep people away from and upwind of fire. Dust can form an explosive mixture in air***

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6. Accidental release measures

Personal precautions

Avoid dust formation***

Environmental precautions

Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system.

Methods for cleaning up

Use mechanical handling equipment***

7. Handling and storage

Advice on safe handling

Do not handle hot or molten material without appropriate protective equipment.. Maintain good housekeeping in work areas.. Do not exceed recommended process temperatures to minimize release of decomposition products.. Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.

Protection - fire and explosion:

Do not smoke in areas where polymer dust is present.. Appropriate measures should be taken to control the generation and accumulation of dust during conveying and processing operations..

Material storage

Keep in a dry, cool and well-ventilated place. Maintain dryness of resin..

8. Exposure controls / personal protection

ACGIH Exposure Limits

Components	TWA
Proprietary Filler A	10 mg/m ³ Total Dust; 3 mg/m ³ Respirable Dust
Carbon black	3.5 mg/m ³

OSHA Exposure Limits

Components	TWA
Proprietary Filler A	15 mg/m ³ Total Dust; 5 mg/m ³ Respirable Dust
Proprietary Filler B	15 mg/m ³ Total dust.
Carbon black	3.5 mg/m ³

Exposure controls

Engineering measures

General: May not be adequate as the sole means to control employee exposure.
 Local Exhaust: Recommended when appropriate to control employee exposure to dust or process vapors***

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Personal protective equipment

Hygiene measures	When using, do not eat, drink or smoke.. Wash hands before breaks and at the end of workday.***
Respiratory protection	In case of insufficient ventilation wear suitable respiratory equipment.
Eye protection	safety glasses with side-shields.
Skin protection	Avoid contact with skin
Hand protection	protective gloves
Suitable material	Butyl-rubber
Type	Butoject (Company KCL) or comparable article; or refer to glove manufacturer's recommendation
Evaluation	according to EN 374: level 6
Material thickness	approx. 0,3 mm
Break through time	480 min

9. Physical and chemical properties

Appearance

Form pellets
Odor slight

Flash point Not applicable***
Ignition temperature No data available
Density Not determined***
Bulk density Not Determined
Water solubility insoluble
VOC Content(%) Not determined

10. Stability and reactivity

Chemical stability

Stable under normal conditions

Conditions to avoid

Flame.. Avoid prolonged heating at or above the recommended processing temperature.***

Incompatible Materials

strong oxidizing agents, reducing agents

Hazardous Combustion or Decomposition Products:

carbon monoxide Carbon dioxide (CO₂) Nitrogen oxides (NO_x) Sulfur dioxide Boron oxides Carbonyl sulfide

11. Toxicological information

Potential health effects

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Routes of exposure Skin, eyes, inhalation, ingestion.

Immediate effects

Skin	Polymer particles may cause mechanical irritation. The molten product can cause serious burns.
Eyes	Resin particles, like other inert materials, are mechanically irritating to eyes
Inhalation	Dust irritating to respiratory tract. Overheating in processing may generate hazardous, irritating vapours.
Ingestion	Low toxicity by this route is expected based on the biological activity of high molecular weight polymers.
Other:	Carbon Black is listed by IARC as possibly carcinogenic to humans (Group 2B) based on inadequate evidence of carcinogenicity in humans and sufficient evidence in experimental animals.

Medical conditions which may be aggravated by exposure: No specific information available on the product. Off-gases, which may be released if overheated, may affect those with chronic diseases of the respiratory system.

Toxicological data are not available. Observe the usual hygienic measures for handling chemicals.

12. Ecological Information

Ecotoxicity: The effects of resin pellets on the wildlife that may ingest them is not well understood. In the case of seabirds, some marine biologists believe that the fowl may not be able to pass plastic pellets through their digestive tracts. Thus, large quantities of ingested pellets may cause intestinal blockage, false feelings of satiation or reduction in absorption of nutrients, causing malnutrition and starvation. The goal of SPI's Operation Clean Sweep is zero loss of pellets into the environment..

Environmental Fate/Information: This material is considered to be non-biodegradable. Do not discharge product unmonitored into the environment***

13. Disposal considerations

Product information

Disposal required in compliance with all waste management related state and local regulations. The choice of the appropriate method of disposal depends on the product composition by the time of disposal as well as the local statutes and possibilities for disposal

Uncleaned empty packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse

14. Transport information

US Department of Transportation Not regulated

ADR/RID Not regulated

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14. Transport information

ADN Not regulated

ICAO/IATA Not restricted

IMDG Not regulated

15. Regulatory information

INTERNATIONAL REGULATIONS

This preparation is not classified as dangerous according to Chinese legislation.
This mixture is not classified as dangerous according to Japanese legislation.

16. Other information

HMIS: Health: 1 Flammability: 0 Physical Hazard: 0

Color code(s)
BLACK, KD3002***

Prepared By
Product Stewardship Department
Celanese

Other Information:

Observe national and local legal requirements. Except as otherwise noted, all of the trademarks referenced herein are owned by Ticona or its affiliates. ***

Changes against the previous version are marked by ***

Sources of key data used to compile the datasheet

Information contained in this safety data sheet is based on Celanese owned data and public sources deemed valid or acceptable. The absence of data elements required by ANSI or 1907/2006/EC indicates that no data meeting these requirements is available.

Further information

This information is provided in accordance with the current status of our knowledge and experience. The Safety Data Sheet describes products with a view to relevant safety requirements.