

Safety data sheet
according to regulation (EC) Nr. 1907/2006



Product name	CoolPoly® E2		EUIE/EN
MSDS number	870038	Revision Date	Dec.04.2015
Revision Number	0.01	Issuing date	Dec.04.2015

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name
CoolPoly® E2

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

Color Code:
See Section 16 for list of Color Codes.

REACH Registration Number
This product is a mixture and therefore not directly subject of the registration requirements under REACH.

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses
Plastic processing industry.

1.3. Details of the supplier of the safety data sheet

Celanese Production Germany GmbH & Co. KG
Am Unisys-Park 1
65843 Sulzbach (Taunus)
Germany

SDS Contact (email of responsible person)

Telephone: +49 (0)180-584 2662
FAX: +49 (0)180 - 202 1202
HazCom@celanese.com

1.4. Emergency telephone number
CHEMTREC: +1 703 527 3887 (Collect calls accepted)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation 1272/2008/EC (CLP)
Not a hazardous substance or preparation according to Regulation 1272/2008 (CLP)

2.2. Label elements

Not required

2.3 Other Hazards

The mixture does not meet the criteria for PBT / vPvB according to REACH, Annex XIII

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SECTION 3: Composition/information on ingredients

Chemical characterization Liquid crystal polymer / LCP, CAS-RN. basic polymer: 147310-94-9; Filament carbon fiber, CAS-RN.: 7440-44-0

- 3.1. Substances** not applicable
- 3.2. Mixtures** see Chemical characterization

SECTION 4: First aid measures

4.1. Description of first aid measures

- Inhalation** Move to fresh air in case of accidental inhalation of vapors. Get medical attention immediately if symptoms occur.
- 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.
- Ingestion** If swallowed, do not induce vomiting - seek medical advice.

4.2. Most important symptoms and effects, both acute and delayed

Main symptoms None known

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

5.2. Special hazards arising from the substance or mixture

Under conditions giving incomplete combustion, hazardous gases produced may consist of
Carbon monoxide
Carbon dioxide (CO₂)

5.3. Advice for firefighters

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.

SECTION 6: Accidental release measures

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid dust formation.

6.2. Environmental precautions

No special environmental precautions required.

6.3. Methods and material for containment and cleaning up

Use mechanical handling equipment. Dispose of in accordance with local regulations.

6.4. Reference to other sections

Consult trained personnel. Consider the information for "Personal Protection" in chapter 8 of this Safety Data Sheet.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Hygiene measures

When using, do not eat, drink or smoke Do not inhale dust particles, during processing carbon fiber particles are set free and cause irritation to the respiratory passage. Wash hands before breaks and at the end of workday.

Advice on safe handling

Do not handle hot or molten material without appropriate protective equipment. Do not exceed recommended process temperatures to minimize release of decomposition products. Maintain good housekeeping in work areas.. 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..

Reduce the release of the substance or mixture to the environment

See Section 8: Environmental exposure controls

7.2. Conditions for safe storage, including any incompatibilities

Material storage

Keep in a dry, cool place. Maintain dryness of resin..

Technical measures/Storage conditions

No special technical protective measures required.

German storage class

11: Combustible solids

7.3. Specific end use(s)

None known

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

EC Exposure Limit Values

No exposure limits established.

National occupational exposure limits

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DNELs This product is a mixture and therefore not directly subject of the registration requirements under REACH.

PNECs This product is a mixture and therefore not directly subject of the registration requirements under REACH.

8.2. 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.

Personal protective equipment

Hygiene measures When using, do not eat, drink or smoke Do not inhale dust particles, during processing carbon fiber particles are set free and cause irritation to the respiratory passage. 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 Safety goggles

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

Environmental exposure controls

Do not discharge into the drains/surface waters/groundwater

Environmental Precautions

Should not be released into the environment

SECTION 9: Physical and chemical properties

9.1. Information on basic 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

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SECTION 9: Physical and chemical properties

Water solubility	insoluble
VOC Content(%)	Not determined

9.2. Other information The product was not tested for properties not listed on the MSDS..

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical Stability

Thermal decomposition can take place above > 360°C.

10.3. Possibility of hazardous reactions

No hazards to be especially mentioned.

10.4. Conditions to avoid

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

10.5. Incompatible Materials

None known

10.6. Hazardous decomposition products

Carbon monoxide, Carbon dioxide (CO₂), possible in traces, phenol, acetic acid, Aromatic compounds, Phenyl esters

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

SECTION 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.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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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.

SECTION 14: Transport information

ADR/RID	Not regulated
ADN	Not regulated
ICAO/IATA	Not restricted
IMDG	Not regulated

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Water Hazard Class (WGK):	not water endangering
WGK Class	766
WGK Source	Classification according to VwVwS, Annex 1 or 2

15.2 Chemical Safety Assessment

Chemical Safety Assessment (CSA) is not required

SECTION 16: Other information

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 ***

Training advice

Training advice. Make sure that employees are aware of the hazards / risks as detailed on this Safety Data Sheet.

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 based on our present state of knowledge. It shall describe our products regarding safety requirements and shall not be construed as a guarantee or statement of condition and/or quality.

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Abbreviation and Acronym:

ADR = Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID = Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG = International Maritime Code for Dangerous Goods

IATA = International Air Transport Association

ICAO = International Civil Aviation Organization

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

EINECS = European Inventory of Existing Commercial Chemical Substances

CAS = Chemical Abstracts Service (division of the American Chemical Society)

CLP = Classification, Labelling and Packaging

DNEL = Derived No Effect Level

PNEC = Predicted No Effect Concentration

Annex: Exposure Scenario(s)

Development of Exposure Scenario is not required