

Product name Celcon®***
MSDS number 870610011
Revision Number 1

Revision Date Oct.01.2013
Issuing date Dec.11.2017***

AGHS/EN

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

Product name
Celcon®***

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

Product Grade(s):
M15HP***

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

In China Emergency Number: 86-532-83889090 (NRCC)

Synonyms:
Acetal copolymer Polyoxymethylene copolymer

Identified uses
Plastic processing industry.

2. Hazards identification

Statements of Hazard

Not a dangerous product according to GHS

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3. Composition/Information on ingredients

Chemical characterization Polyacetal Copolymer / POM; CAS-RN of the basic polymer: 24969-26-4

Components	CAS-No	Percent %
Formaldehyde	50-00-0	< 0,1

4. First aid measures

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

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 overheated or burns, gases such as carbon monoxide and formaldehyde may be released. Those exposed to off-gases may need to have their arterial blood gases and carboxyhemoglobin levels checked. If the carboxyhemoglobin levels are normal and the exposure occurred in an enclosed space, asphyxia (carbon dioxide replacing oxygen) is a possibility. Formaldehyde is a respiratory irritant gas. 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: 1 Instability: 0

Suitable extinguishing media
Dry powder, Foam, Dry chemical, Solid extinguishing agent, Water

Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases
Hazardous combustion products
Formaldehyde vapours
Carbon dioxide (CO₂)
Carbon monoxide***

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

Remove all sources of ignition. Avoid dust formation. Do not breathe dust***

Environmental precautions

Should not be released into the environment.

Methods for cleaning up

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

7. Handling and storage

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 for appropriate exhaust ventilation and dust collection at machinery***

Incompatible products

strong acids, oxidizing agents, Polyvinyl chloride

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 place.. Maintain dryness of resin.. Maximum storage temperature 40***°C. To maintain product quality, do not store in heat or direct sunlight***

Incompatible products

strong acids, oxidizing agents, Polyvinyl chloride

8. Exposure controls / personal protection

ACGIH Exposure Limits

Components	TWA
Isocyanate Compound	0.005 PPM

Components	Ceiling Limit Value:
Formaldehyde	0.3 PPM***

OSHA Exposure Limits

Components	TWA
Formaldehyde	0.75 PPM

Components	STEL
Formaldehyde	2 PPM

SAFETY DATA SHEET



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Components	CEILING
Isocyanate Compound	0.02 PPM

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

General advice Avoid contact with skin and eyes. Do not breathe dust.

Hygiene measures When using, do not eat, drink or smoke.. Clean skin thoroughly after work; apply skin cream ***

Respiratory protection Wear dust mask when handling large quantities.

Eye protection safety glasses with side-shields.

Skin protection Avoid contact with skin

Hand protection Chemicals resistant 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 powder, pellets
Odor slight , specific

Flash point Not applicable***
Ignition temperature 320°C***
Method ASTM D 1929
Density approx 1.4 - 1.8 g/ml @ 20°C***
Bulk density approx 770 - 890 kg/m³ @20 °C
Vapor pressure Not determined***
Water solubility insoluble

10. Stability and reactivity

Chemical stability
Stable under normal conditions

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Conditions to avoid

Flame.. Avoid temperatures above 238 °C / 460*** °F.. Do not allow mixing of this material with PVC, other halogen containing materials, and partially and/or fully crosslinkable thermoplastic elastomers.. Avoid prolonged heating at or above the recommended processing temperature.***

Incompatible Materials

Polyvinyl chloride, strong acids, oxidizing agents

Hazardous Combustion or Decomposition Products:

Trioxane formaldehyde paraformaldehyde formic acid, Isocyanates***

11. Toxicological information**Potential health effects**

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	Overheating in processing may generate hazardous, irritating vapours. Dust irritating to respiratory tract.***
Ingestion	Low toxicity by this route is expected based on the biological activity of high molecular weight polymers.
Other:	Formaldehyde, which is a degradation product, is listed as a potential cancer hazard by OSHA, a known human carcinogen by The International Agency for Research on Cancer (IARC, Group 1), and is listed in the 12th Report on Carcinogens (RoC) released by The National Toxicology Program (NTP). Formaldehyde should not pose a risk if exposures are kept below the OSHA Permissible Exposure Limit.

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. When handled appropriately, even after long years of experience with this product, no adverse health effects are known***

12. Ecological Information

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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***

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

ADN Not regulated

ICAO/IATA Not restricted

IMDG Not regulated

15. Regulatory information

INTERNATIONAL REGULATIONS

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

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

International Inventories

Listed on the chemical inventories of the following countries or qualifies for an exemption:

Australia (AICS)

Canada (DSL)

China (IECSC)

Europe (EINECS)

United States (TSCA)

Korea (KECI)

Japan (ENCS)

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16. Other information

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

Color code(s)
CD3068***

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 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