

THIS PRODUCT IS SUPPLIED BY



ABN 49 006 409 936
P.O. Box 6421 St Kilda Road, Melbourne
Victoria 3004.
6/574 St Kilda Road,
Melbourne, 3004.
Telephone 61 3 9229 9229
Fax 61 3 9229 9290

For EMERGENCIES ONLY Contact: 1800 033 111 (All Hours Australia)

Amtrade International Pty Ltd: 61 3 9229 9229 (Melbourne)

61 2 9805 4200 (Sydney)

NOTE 1: The attached MSDS is for a non-regulated product, and as such does not require Amtrade International to produce an MSDS. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace, including in conjunction with other products.

This product may contain ingredients that have exposure standards. Exposure standards may be found on the following website:
<http://hsis.ascc.gov.au/searchHS.aspx>

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company, or in the event of an emergency, the Emergency response number above.

Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

NOTE 2: Products which are not regulated as Hazardous Substances, Scheduled Poisons, Dangerous Goods, Combustible Liquids, or are controlled (e.g. drug or chemical weapon precursors, environmental issues) only need an MSDS to be updated as needed to meet OH&S Act general requirements to provide adequate information and are NOT subject to the 5 year update cycle for Regulated Products.

Product name Celcon®
MSDS number 870610001
Revision Number 1

AGHS/EN

Revision Date Oct.01.2013
Issuing date Aug.05.2015***

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):

AS270, CF801, FG40U01, GB10, LM90-07, LM90Z, LP93-07, LU02, LW25-S2, LW90, LW90-S2, LW90-SC, LM140, M140, M140-L1, M15HP, M25, M25LF, M25T, M25UV, M270™, M270-14, M270T, M270UV, M450, M50, M90™, M90-07, M90-14, M90-17, M90-34, M90-45H, M90-45XAP®, M90AW, M90C, M90LF, M90SCX, M90SW, M90T, M90UV, MC270, MC270-HM, MC90-HM, MR25B, MR270B, MR50B, MR90B, MC90, TF-10XAP®, TX90, TX90PLUS, UV140LG, UV25Z, UV270Z, UV90Z, WR90Z***

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

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Statements of Hazard Not a dangerous product according to GHS

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: 0

Instability: 0

Suitable extinguishing media

Water, Foam

Extinguishing media which must not be used for safety reasons

Do not use a solid water stream as it may scatter and spread fire.

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

Hazardous combustion products

Carbon monoxide

Carbon dioxide (CO₂)

Formaldehyde vapours

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Special protective equipment for fire-fighters

Wear self-contained breathing apparatus and protective suit.

Environmental precautions

Dike and collect water used to fight fire.

Other Information

Potential dust explosion hazard.***

6. Accidental release measures**Personal precautions**

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

Environmental precautions

No special environmental precautions required.

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. Do not exceed recommended process temperatures to minimize release of decomposition products. Provide for appropriate exhaust ventilation and dust collection at machinery. Maintain good housekeeping in work areas.***

Incompatible products

strong acids, oxidizing agents, Polyvinyl chloride

Protection - fire and explosion:

Keep away from sources of ignition - No smoking. Potential dust explosion hazard. Appropriate measures should be taken to control the generation and accumulation of dust during conveying and processing operations.***

Material storage

Keep in a dry place.. Maintain dryness of resin.. To maintain product quality, do not store in heat or direct sunlight***

Incompatible products

strong acids, oxidizing agents, Polyvinyl chloride

Technical measures/Storage conditions

No special storage conditions required.

8. Exposure controls / personal protection**ACGIH Exposure Limits**

Components	Ceiling Limit Value:
Formaldehyde	0.3 PPM

Exposure controls

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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	Do not breathe dust. Avoid contact with skin and eyes.
Hygiene measures	When using, do not eat, drink or smoke. Clean skin thoroughly after work; apply skin cream . Do not inhale dust particles, during processing glass or glass dust particles are set free and cause irritation to the respiratory passage. Wash hands before breaks and at the end of workday..
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 pellets
Odor slight , specific

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

10. Stability and reactivity

Chemical stability

Stable under normal conditions

Conditions to avoid

Flame.. Do not allow mixing of this material with PVC, other halogen containing materials, and partially and/or fully crosslinkable thermoplastic elastomers. Avoid temperatures above 238 °C / 460 °F.. Recommended melt temperatures. 360-390°F (182-199°C)***.. Avoid prolonged heating at or above the recommended processing temperature.***

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Incompatible Materials

Polyvinyl chloride, strong acids, oxidizing agents

Hazardous Combustion or Decomposition Products:

Trioxane, formaldehyde, paraformaldehyde, formic acid,***

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. 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.***

13. Disposal considerations

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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.

16. Other information

SAFETY DATA SHEET



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16. Other information

HMIS: Health: 1

Flammability: 0

Physical Hazard: 0

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16. Other information

Color code(s)

CA2062K20, CA3059, CA3059K20, CA32026, CA32031, CA3208, CA3208K20, CA32940, CA33378, CA33595K20, CA33595SP20, CA33600K20, CA33776, CA33790K20, CA34069, CA34081K20, CA34139, CA34171K20, CA34172K20, CA34209K20, CA34209SP20, CA34212K20, CA34266, CA34319, CA34320, CA34331K20, CA34359, CA34378K20, CA34506, CA34567, CA34896, CA34994, CA35109, CA43645, CA44051, CA7208K20, CB32506, CB32979, CB33611, CB33664, CB33833, CB33907, CB33997, CB34075K20, CB34174, CB34237, CB34238, CB34254SP20, CB34270, CB34337, CB34360, CB34361, CB34431, CB34498, CB34524, CB34547, CB34556, CB34566, CB34627, CB34686, CB34697, CB34703, CB34706, CB34999, CB35030, CB35052, CB35075, CB35094, CB35156, CB35191, CB9148B, CB9314N, CB9521Q, CB5110K20, CC3063, CC3063SP20, CC3072, CC3072SP20, CC32509, CC32598K20, CC32846, CC32917, CC33037, CC33144, CC33293, CC33382, CC33383, CC33590, CC33622, CC33657, CC33663, CC33691, CC33703, CC33715, CC33725, CC33736, CC33740, CC33755, CC33783, CC33785, CC33804, CC33805, CC33806, CC33809, CC33810SP20, CC33841, CC33856, CC33858, CC33863, CC33866, CC33893, CC33911, CC33928, CC33955, CC33963, CC33987, CC33993, CC33995, CC34020, CC34021, CC34024, CC34029, CC34031, CC34042, CC34092, CC34130, CC34167, CC34177, CC34178, CC34193, CC34200, CC34206SP50, CC34210, CC34211, CC34215, CC34234, CC34241, CC34244, CC34246, CC34267, CC34268, CC34271, CC34280, CC34291, CC34300, CC34318, CC34332, CC34333, CC34335, CC34350, CC34351, CC34362, CC34365, CC34366, CC34372, CC34375, CC34380, CC34381, CC34382, CC34394, CC34402, CC34409, CC34414, CC34437, CC34452, CC34454, CC34462, CC34463, CC34466, CC34468, CC34471, CC34473, CC34481, CC34493, CC34499, CC34501, CC34502, CC34503, CC34515, CC34522, CC34527, CC34531, CC34533, CC34549, CC34557, CC34558, CC34562, CC34579, CC34580, CC34595, CC34598, CC34602, CC34604, CC34605, CC34612, CC34625, CC34628, CC34629, CC34631, CC34634, CC34648, CC34652, CC34653, CC34670, CC34687, CC34693, CC34694, CC34698, CC34699, CC34708, CC34709, CC34713, CC34714, CC34718, CC34720, CC34722, CC34745, CC34764, CC34767, CC34770, CC34771, CC34778, CC34798, CC34811, CC34829, CC34840, CC34843, CC34849, CC34865, CC34866, CC34873, CC34877, CC34918, CC34921, CC34948, CC35027, CC35038, CC35039, CC35040, CC35059, CC35061, CC35066, CC35068, CC35069, CC35071, CC35078, CC35100, CC35243, CC4029, CC44272, CC44477, CC44884, CC5220, CC5302A, CC7063K20, CC7072K40, CC8008A, CC9104D, CC9149B, CC9184D, CC9202A, CC9203A, CC9310N, CC9311N, CC9312N, CC9313N, CC96259, CC9642H, CC97701, CC9780A, CC9781A, CC9792S, CC98247, CC9834T, CC9845T, CC9902A, CC99653, CC99654, CC99780, CC99781, CC99883, CC99902, CC9999K, CD3068K20, CD3068K40, CD32403, CD32537, CD32620, CD33335, CD33387, CD33668, CD33763, CD33867, CD33889, CD33927, CD34028, CD34080, CD34202, CD34217, CD34264, CD34283, CD34286, CD34334, CD34428, CD34438, CD34446, CD34467, CD34491, CD34534, CD34539, CD34554, CD34611, CD34684, CD34756, CD34779, CD35057, CD35072, CD35095, CD90848, CD9167A, CE33268K20, CE33283, CE33391, CE34384, CE34384K20, CE34384SP20, CE34727K20, CE5430K20, CE7430, CE7430K20, CE7430K40, CE8023AK20, CF2001, CF2001SP10, CF2888, CF3001, CF3500, CG31391K20, CG32013K20, CG32211, CG33114K20, CG33147, CG33198, CG33509, CG33517, CG33568, CG33737, CG33836, CG33921K40, CG33956, CG34002, CG34095, CG34096, CG34122, CG34345, CG34345K20, CG34345SP20, CG34429, CG34444, CG34485, CG34490, CG34492, CG34542, CG34614, CG34626K25, CG34649K20, CG34689, CG34696, CG34752, CG34783, CG35125, CG35131, CG35358K20, CG3671, CG3671K20, CG3690, CG3690K20, CG5325K20, CG7671, CG7671K20, CG7690, CG7690K20, CG9104E, CG9118A, CG9156A, CG9173B, CG9400G, CH33944K40, CH34208K20, CJ3075, CJ3075K20, CJ3105, CJ3105K20, CJ3105SP20, CJ33262K20, CJ33269, CJ33754, CJ33826, CJ33952, CJ33959K40, CJ34045, CJ34308, CJ34314, CJ34329, CJ34344K20, CJ34344SP20, CJ34418, CJ34478, CJ34528, CJ34599, CJ34905K20, CJ34923, CJ34967, CJ44111K40, CJ7105K20, CK34231, CL2575, CL3073, CL33402, CL33803, CL33803K20, CL34018, CL34068, CL34074K20, CL34091, CL34120, CL34295K20, CL34568, CL34729K20, CL34892, CL34904K20, CL43504, CL44281, CL5860, CL5860K20, CL7860, CL7860K20, CN32758, CN32758K20, CN33109, CN33827, CN34356SP20, CN34447, CN34451K20, CN34711, CN3540, CN3540K20, CN44710, CN7540, CN7540K20, CN7540K40, CP5645K20, CR33345, CR34589, CR34589K20, CR5650K20, CS3067, CS3067K20, CS32212K20, CS32864, CS33081, CS33273, CS33448, CS33870, CS34084, CS34121, CS34488, CS34504, CS34505, CS34662, CS34668, CS34721, CS34721K20, CS34734K20, CS35080K20, CS35107, CS35165, CS7067K20, CS9217M, CS9422P, CS94592, CS99104, CS9936A, CS99933, CT32845, CT33701, CT33897, CT33916, CT34368, CT34385, CT34385K20, CT34385SP20, CT34673, CT3755K20, CV33070, CV33119K20, CV33121, CV33398, CV33624, CV33696, CV33711, CV33733, CV33770, CV33822, CV33824, CV33853, CV33869, CV33892, CV33894, CV33981, CV33998, CV33999, CV34000, CV34004, CV34064, CV34078, CV34079, CV34099, CV34102K40, CV34119SP20, CV34140, CV34160, CV34163, CV34173, CV34195, CV34205, CV34218, CV34219,

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16. Other information

CV34242, CV34285, CV34302, CV34309, CV34310, CV34311, CV34341, CV34354, CV34373, CV34393, CV34400, CV34415, CV34423, CV34423SP20, CV34426, CV34434, CV34436, CV34450, CV34453, CV34465, CV34470, CV34495, CV34518, CV34521, CV34538, CV34548, CV34559, CV34563, CV34578, CV34588, CV34594, CV34607, CV34641, CV34644, CV34654, CV34677, CV34692, CV34700, CV34717K20, CV34755, CV34769, CV34772, CV34773, CV34776, CV34864, CV34887, CV34941, CV34947, CV35000, CV35028, CV35041, CV35043, CV35055, CV35070, CV35087, CV35101, CV35148, CV9101E, CV9102E, CV9211B, CV9641H, CV9776A, CV9777A, CV9830K, CV9831K, CV99098, CV9923T, CY31118, CY3136, CY32507, CY33185, CY33366, CY33542, CY33592, CY33606, CY33612, CY33667, CY33828, CY33910, CY33917, CY33932, CY33954, CY34040, CY34043, CY34058, CY34100, CY34164, CY34196, CY34201, CY34258, CY34321, CY34322, CY34363, CY34519, CY34523, CY34529, CY34530, CY34564, CY34565, CY34581, CY34591, CY34624, CY34657, CY34681, CY34716, CY34815, CY34886, CY34897, CY34965, CY35001, CY35002, CY35010, CY35042, CY35045, CY35130, CY35157, CY35161, CY9137A, CY9193V, CY9195A, CY9210V, CY9330N, CY9404G, CY9514Q, CY9648A, CY9832K, CY9844T, CY9935L, CY99648, NATURAL

Prepared By

Product Stewardship Department
Celanese

Other Information:

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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