



MATERIAL SAFETY DATA SHEET (EC 1907/2006)

Material name

Neoss MSDS 3 - POLYCARBONATE

Document no

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SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Trade name	Polycarbonate
Company	Neoss Ltd. Windsor House Cornwall road Harrogate, HG1 2PW www.neoss.com
Telephone	+44 1423 817-733
Telefax	+44 1423 817-744
Email	info@neoss.com
Emergency telephone number	Your local Neoss office
Use of the Substance /Preparation	Production of moulded plastic articles

SECTION 2: COMPOSITION/ INFORMATION ON INGREDIENT

Polycarbonate based on bisphenol A

SECTION 3: HAZARDS IDENTIFICATION

Not a product dangerous for health or the environment according to the definition of EC Directives 2006/121/EC or 1999/45/EC and their valid adaptations and derived national regulations.

SECTION 4: FIRST AID MEASURES

In case of skin contact:

CONTACT WITH THE HOT MELT: Cool immediately with plenty of water. Do not remove product crusts which may have formed neither forcibly nor by applying any solvents to the skin involved.

To obtain treatment for possible burns, and appropriate skin care, seek medical advice immediately.

The following information refers to the handling of the product at room temperature. In case of skin contact wash affected areas thoroughly with soap and plenty of water.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable extinguishing media: sprayed water jet, extinguishing powder, Carbon dioxide (CO₂), Foam, Dry chemical

Burning releases carbon monoxide, carbon dioxide, oxides of nitrogen and traces of hydrogen cyanide.

In the event of fire and/or explosion do not breathe fumes.

Firemen must wear self-contained breathing apparatus.

Do not allow contaminated extinguishing water to enter the soil, ground-water or surface waters.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions: slip hazard!

Methods for cleaning up: Use mechanical handling equipment. Avoid dust formation.

Additional advice: For further disposal measures see chapter 13.

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2 of 4**SECTION 7: HANDLING AND STORAGE****Handling**

Under recommended processing conditions small amounts of residues of monomers and residual solvent may be emitted. Provided good ventilation and/or local exhaust systems are used, the Workplace Exposure Limit(s) stated in Chapter 8 should not be exceeded.

Dust must be removed by effective exhaust ventilation.

Storage

No special storage conditions required.

VCI storage class (VCI = German Association of the Chemical Industry): 11

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

The regulations for the substances listed below must be observed when processing this product, particularly at elevated temperatures. The provision of effective fresh-air and exhaust ventilation equipment at the points where vapours may be generated will ensure compliance with the tolerance limits quoted below.

Substance	CAS-No.	Basis	Type	Value	Ceiling Limit Value	Remarks
phenol	108-95-2	TRGS 900		2 ppm 7,8 mg/m ³		Dermal absorption possible
phenol	108-95-2	EU ELV	TWA	2 ppm 7,8 mg/m ³		Dermal absorption possible
chlorobenzene	108-90-7	TRGS 900		10 ppm 47 mg/m ³	2	If in compliance with the OEL and BEL values, then there should be no risk of reproductive damage.
chlorobenzene	108-90-7	TRGS 900	STEL CL			Category II: substances with a resorptive effect.
chlorobenzene	108-90-7	EU ELV	TWA	5 ppm 23 mg/m ³		
chlorobenzene	108-90-7	EU ELV	STEL	15 ppm 70 mg/m ³		
bisphenol A; 4,4'-isopropylidenediphenol	80-05-7	TRGS 900	STEL CL			Category I: substances for which the localized effect has an assigned OEL respiratory passages.
bisphenol A; 4,4'-isopropylidenediphenol	80-05-7	TRGS 900		5 mg/m ³	1	If in compliance with the OEL and BEL values, then there should be no risk of reproductive damage.
General limiting value of dust		TRGS 900		10 mg/m ³	2	inhalable fraction
General limiting value of dust		TRGS 900		3 mg/m ³	2	alveolar fraction
General limiting value of dust		TRGS 900	STEL CL			Category II: substances with a resorptive effect.



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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Colour:	different according to colouration
Form:	granular
Odour:	odourless
Softening point:	> 130 - 160 °C
Decomposition temperature:	>= 380 °C
Density:	ca. 1,2 - 1,4 g/cm ³
Bulk density:	600 - 700 kg/m ³
Water solubility:	practically insoluble
Ignition temperature:	> 450 °C

SECTION 10: STABILITY AND REACTIVITY

Hazardous reactions: No hazardous reactions observed.

Hazardous decomposition products: Caused by smouldering and incomplete combustion toxic fumes mainly consisting of CO and CO₂ may be developed.

Thermal decomposition: Fumes evolved by overheating during improperly processing or by burning may be injurious to health.

SECTION 11: TOXICOLOGICAL INFORMATION

Under recommended processing conditions small amounts of emissions may occur.
The regulations for the substances listed below must be observed when processing this product, particularly if processing takes place at elevated temperatures.

Substance	CAS-No.	R-phrases(s)
phenol	108-95-2	R68 Possible risk of irreversible effects. R23/24/25 Toxic by inhalation, in contact with skin and if swallowed. R48/20/21/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.
chlorobenzene	108-90-7	R34 Causes burns.
bisphenol A; 4,4'-	R20	Harmful by inhalation.
Isopropylidenediphenol	80-05-7	R62 Possible risk of impaired fertility. R37 Irritating to respiratory system. R41 Risk of serious damage to eyes. R43 May cause sensitization by skin contact.

Additional information:

According to our experience and information the product has no harmful effects on health if properly handled.

SECTION 12: ECOLOGICAL INFORMATION

Do not allow to escape into waterways, wastewater or soil.

Further information on ecology:

The product is practically insoluble in water. In view of its consistency and insolubility in water, no ecological problems are to be expected if the product is properly handled. The product is not readily biodegradable.



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SECTION 13: DISPOSAL CONSIDERATIONS

Dispose in accordance with applicable international, national and local laws, ordinances and statutes.

For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.

After containers have been emptied as thoroughly as possible (e.g. by pouring, scraping or draining until "drip-dry"), they can be sent to an appropriate collection point set up within the framework of the existing take-back scheme of the chemical industry.

Containers must be recycled in compliance with national legislation and environmental regulations.

The product is suitable for mechanical recycling. After appropriate treatment it can be remelted and reprocessed into new moulded articles. Mechanical recycling is only possible

SECTION 14: TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations

SECTION 15: REGULATORY INFORMATION

Labelling According To EC-Regulations

Other data According to the Dangerous Preparations Directive (1999/45/EG): no labelling

SECTION 16: OTHER INFORMATION

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is given in good faith being based on the latest information available and is to the best and belief accurate and reliable at the time of preparation. However no representation, warranty or guarantee is made as to its accuracy, reliability or completeness and we assume no responsibility and disclaims any liability incurred in using this information. The product is supplied under condition that the user accepts the responsibility to satisfy himself so as to the suitability and completeness of such information for his own particular use.