



Safety Data Sheet Carmo Seal 6.925

Safety Data Sheet dated 2/7/2004, version 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Commercial name: Carmo Seal 6.925
Product type and use: Solvent based polyurethane adhesive
Supplier:
Carmo A/S
Hoejvangen 19
DK 3060 Espergaerde, Denmark
Emergency telephone number of the company and/or of an authorised advisory centre:
Phone +45 49 12 21 00;
e-mail: denmark@carmo.dk

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components within the meaning of EEC directive 67/548 and corresponding classification:

40% - 50% acetone; propan-2-one; propanone
N.67/548/EEC: 606-001-00-8 CAS: 67-64-1 EINECS: 200-662-2
F Xi R11 R36 R66 R67

15% - 20% toluene
N.67/548/EEC: 601-021-00-3 CAS: 108-88-3 EINECS: 203-625-9
Xn F R11 R20

10% - 12.5% butanone; ethyl methyl ketone
N.67/548/EEC: 606-002-00-3 CAS: 78-93-3 EINECS: 201-159-0
F Xi R11 R36 R66 R67

3. HAZARDS IDENTIFICATION

The product easily catches fire if it is exposed to an ignition source.
The product is harmful following acute exposure to it and poses a serious health threat if inhaled.
If brought into contact with the eyes, the product causes considerable irritation which can last for over 24 hours.

4. FIRST AID MEASURES

Contact with skin:
Immediately take off all contaminated clothing.
Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Contact with eyes:
Wash immediately and thoroughly with running water, keeping eyelids raised, for at least 10 minutes.
Following this, protect the eyes with sterile gauze or a clean, dry, handkerchief. OBTAIN A MEDICAL EXAMINATION.

Swallowing:
Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.
Give liquid paraffin to drink; do not give milk or animal or vegetable fats of any kind.



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Inhalation:

Ventilate the premises. The patient is to be removed immediately from the contaminated premises to rest in a well ventilated area. OBTAIN MEDICAL ATTENTION.

5. FIRE-FIGHTING MEASURES

Recommended extinguishers:

Carbon dioxide, Foam, Chemical powders, according to the materials involved in the fire.

Extinguishers not to be used:

Risks arising from combustion:

Avoid inhaling the fumes.

Protective equipment:

Use protection for the respiratory tract.

Cool the containers exposed to the fire with water.

6. ACCIDENTAL RELEASE MEASURES

Measures for personal safety:

Use gloves and protective clothing.

Environmental measures:

Limit leakages with earth or sand.

Eliminate all unguarded flames and possible sources of ignition. Do not smoke.

If the product has escaped into a water course, into the drainage system, or has contaminated the ground or vegetation, notify the competent authorities.

Cleaning methods:

If the product is in a liquid form, stop it from entering the drainage system.

Recover the product for re-use if possible, or for elimination. The product might, where appropriate, be absorbed by inert material.

After the product has been recovered, rinse the area and materials involved with water.

7. HANDLING AND STORAGE

Handling precautions:

Avoid contact and inhalation of the vapours. See, too, paragraph 8 below.

Do not eat or drink while working.

Do not smoke while working.

Storage conditions:

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Keep away from flame and sparks. Avoid accumulating electrostatic charge.

Instructions as regards storage premises:

Cool and adequately ventilated.

Safety electric system.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Precautionary measures:

Give adequate ventilation to the premises where the product is stored and/or handled.

Respiratory protection:

Use adequate protective respiratory equipment, e.g. CEN/FFP-2(S) or CEN/FFP-3(S).

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.



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Eye protection:

Use close fitting safety goggles and/or visor conforming to BS 2092 GRADE 1).

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Exposure limit(s) (ACGIH):

acetone; propan-2-one; propanone

TLV-TWA: 750 ppm, A4 - 1780 mg/m³, A4 TLV-STEL: 1000 ppm, A4 - 2380 mg/m³, A4

toluene

TLV-TWA: 50 ppm, A4 - 188 mg/m³

butanone; ethyl methyl ketone

TLV-TWA: 200 ppm - 590 mg/m³ TLV-STEL: 300 ppm - 885 mg/m³

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and colour:	Liquid viscous
Odour:	characteristic
Boiling point:	from 56 °C
Flash point:	< 21 °C
Vapour pressure:	< 110 Kpa (50 °C)
Solubility in water:	partially mixable
Vapour density:	(air=1) > 1

10. STABILITY AND REACTIVITY

Conditions to avoid:

Avoid accumulating electrostatic charge.

Substances to avoid:

Avoid contact with combustible materials. The product could catch fire.

Hazardous decomposition products:

It may generate flammable gases on contact with elementary metals (alkalis and alkaline earth), nitrides and powerful reducing agents.

It may catch fire on contact with oxidising mineral acids, and powerful oxidising agents.

11. TOXICOLOGICAL INFORMATION

The concentration of each substance should be borne in mind in assessing the toxicological effects deriving from the preparation.

Set out below is the toxicological information relating to the main substances in the preparation.

the product does not contain toxicologically relevant substances.

12. ECOLOGICAL INFORMATION

Adopt sound working practices, so that the product is not released into the environment.

13. DISPOSAL CONSIDERATIONS

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.



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14. TRANSPORT INFORMATION

Road (ADR):	Class 3. PG II
Air (ICAO/IATA):	Class 3 UN 1133
Sea (IMO):	Class 3.2; pag.3174 UN 1133

15. REGULATORY INFORMATION

99/45/EEC (Classification and Labelling):

Symbols:

Xn Harmful

F Highly flammable

R Phrases:

R11 Highly flammable.

R20 Harmful by inhalation.

R36 Irritating to eyes.

R66 Repeated exposure may cause skin dryness or cracking.

S Phrases:

S16 Keep away from sources of ignition - No smoking.

S25 Avoid contact with eyes.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S29 Do not empty into drains.

S33 Take precautionary measures against static discharges.

S43 In case of fire, use foam, chemical powders or carbon dioxide. 'Never use water'.

Contents:

toluene

Where applicable, refer to the following regulatory provisions :

Presidential Decree D.P.R. 175/88 (Seveso Directive), Appendices II°, III° e IV°.

16. OTHER INFORMATION

Main bibliographic sources:

NIOSH - Registry of toxic effects of chemical substances (1983)

I.N.R.S. - Fiche Toxicologique

CESIO - Classification and labelling of anionic, nonionic surfactants (1990)

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

Text of R phrases referred to under heading 2:

R11 Highly flammable.

R36 Irritating to eyes.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

R20 Harmful by inhalation.