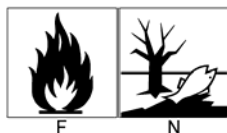


Safety Data Sheet

CARBOWELD 11 P PASTE A

Safety Data Sheet dated 10/2/2006, version M4



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

Trade name : CARBOWELD 11 P PASTE A
Trade code : 011PM100
Product type and use: 66
Product to be mixed with : CARBOWELD 11 P VEHICLE B
Mixing ratio by volume Part A / Part B : peso 55-45
Supplier:
APSA S.p.A-Via Milano 150-20093 Cologno Monzese MI
Emergency telephone number of the company and/or of an authorised advisory centre:
APSA S.p.A. - Tel.: ++39 02 253751
North Europe Carboline Tel. +31.165585230
South Europe Corroline France Tel. +33.160065566

2. COMPOSITION/INFORMATION ON INGREDIENTS

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

70% - 80% zinc powder - zinc dust (stabilized)
N.67/548/EEC: 030-002-00-7 CAS: 7440-66-6 EINECS: 231-175-3
F N R15 R17 R50/53

15% - 20% isopropanol
N.67/548/EEC: 603-003-00-0 CAS: 67-63-0 EINECS: 200-661-7
F Xi R11 R36 R67

3. HAZARDS IDENTIFICATION

The product easily catches fire if it is exposed to an ignition source.
This product is a threat to the environment; it is highly toxic for aquatic organisms following acute exposure.
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES

Contact with skin:
Wash with plenty of water and soap.
Contact with eyes:
Wash immediately with water for at least 10 minutes.
Swallowing:
Induce vomiting. SEEK A MEDICAL EXAMINATION IMMEDIATELY and present the safety-data sheet.
A suspension of activated charcoal in water, or liquid petrolatum may be administered.
Inhalation:
Ventilate the premises. The patient is to be removed immediately from the premises contaminated and made to rest in a well ventilated area. Should the patient feel unwell, consult a physician.

5. FIRE-FIGHTING MEASURES

Recommended extinguishers:
In case of fire, use CO₂ or other dry fire-fighting equipment - chemical powders.
Extinguishers not to be used:
None in particular.
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.

Safety Data Sheet

CARBOWELD 11 P PASTE A

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.

Instructions as regards storage premises:

Cool and adequately ventilated.

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.

Protection for hands:

Not needed for normal use.

Eye protection:

Not needed for normal use.

Protection for skin:

No special precaution must be adopted for normal use.

Exposure limit(s) (ACGIH):

isopropanol

TLV-TWA: 983 mg/m³, 400 ppm TLV-STEL: 1230 mg/m³, 500 ppm

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and colour:

Liquid Grey

Odour:

solvente

pH:

n.a.

Melting point:

n.d.

Boiling point:

>80

Flash point:

15°C °C

Autoignition temperature:

n.d.

Vapour pressure:

n.d.

Specific Gravity:

2.6 Kg/l

Physical state at 24°C:

Liquid

Viscosity 22°C:

n.d.

Solubility in water:

partially soluble

Lipid solubility:

n.d.

Vapour density:

n.d.

10. STABILITY AND REACTIVITY

Conditions to avoid:

Stable under normal conditions.

Substances to avoid:

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

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.

isopropanol

OBSERVATIONS ON HUMAN SUBJECTS:

propan-1-ol (propyl alcohol): oral, woman (LDLo): 5700 mg/kg propan-2-ol (isopropyl alcohol): oral, man (LDLo): 5272 mg/kg

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.

Safety Data Sheet

CARBOWELD 11 P PASTE A

14. TRANSPORT INFORMATION

ADR/RID: class 3 Proper Shipping Name: PAINT or PAINT RELATED MATERIAL
Number ONU: UN 1263
classification 3, PG II

IMDG: class 3
Number ONU: UN 1263, Proper Shipping name: PAINT or PAINT RELATED MATERIAL
Classification: 3 PG II
EmS: F-E, S-E
Marine Pollutant: Yes

Make reference to ADR agreement subsection 1.1.3.6 for ground transportation of this product small quantities

15. REGULATORY INFORMATION

Classification CEE

Symbols:

F Highly flammable
N Dangerous for the environment

R Phrases:

R11 Highly flammable.
R67 Vapours may cause drowsiness and dizziness.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S Phrases:

S29 Do not empty into drains.
S23 Do not breathe gas/fumes/vapour/spray.
S43 In case of fire, use CO₂ or other dry fire-fighting equipment - chemical powders.
S57 Use appropriate container to avoid environmental contamination.
S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

Italy DPR 303/56, group of substances:
None

Italy DPR 203/88, classes of substances:

Class IV	1.5 %
Class III	1.5 %

Where applicable, refer to the following regulatory provisions :
Ministerial circulars 46 e 61 (Aromatic amines).
Law 136/83 (Biodegradability of detergents).
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

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.

Paragraphs modified from the previous revision:

- 2. COMPOSITION/INFORMATION ON INGREDIENTS
- 3. HAZARDS IDENTIFICATION
- 5. FIRE-FIGHTING MEASURES
- 7. HANDLING AND STORAGE
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 9. PHYSICAL AND CHEMICAL PROPERTIES
- 14. TRANSPORT INFORMATION
- 15. REGULATORY INFORMATION
- 16. OTHER INFORMATION

Text of R phrases referred to under heading 2:

R15 Contact with water liberates extremely flammable gases.
R17 Spontaneously flammable in air.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R11 Highly flammable.
R36 Irritating to eyes.
R67 Vapours may cause drowsiness and dizziness.