

SAFETY DATA SHEET ARBO 2020 CURING AGENT

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

PRODUCT NAME ARBO 2020 CURING AGENT

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APPLICATION Curing agent component of: Construction joint sealant

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2 HAZARDS IDENTIFICATION

Causes burns. May cause sensitisation by skin contact. Possible risk of impaired fertility.

CLASSIFICATION (1999/45) Repr. Cat. 3;R62. C;R34. R43.

3 COMPOSITION/INFORMATION ON INGREDIENTS

| Name | EC No. | CAS-No. | Content | Classification (67/548) |
|------------------------------|-----------|----------|---------|---------------------------------|
| DIETHYLENTRIAMINE | 203-865-4 | 111-40-0 | 10-30% | C;R34 Xn;R21/22 R43 |
| 4,4'-ISOPROPYLIDENEDIPHENOL | 201-245-8 | 80-05-7 | 5-10% | Repr. Cat. 3;R62 R43 Xi;R37,R41 |
| 3-AMINOPROPYLTRIETHOXYSILANE | 213-048-4 | 919-30-2 | 1-5% | C;R34 Xn;R22 |

The Full Text for all R-Phrases are Displayed in Section 16

COMPOSITION COMMENTS

Liquid amine curing agent, with mineral fillers. and auxiliaries.

4 FIRST-AID MEASURES

GENERAL INFORMATION

In all cases of doubt, or if symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

INHALATION

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

INGESTION

Immediately rinse mouth and drink plenty of water (200-300 ml). DO NOT induce vomiting. Get medical attention immediately.

SKIN CONTACT

Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.

EYE CONTACT

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention immediately. Continue to rinse.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Water spray, fog or mist. Foam, carbon dioxide or dry powder. Dry chemicals, sand, dolomite etc.

SPECIAL FIRE FIGHTING PROCEDURES

Cool containers exposed to flames with water until well after the fire is out. Keep run-off water out of sewers and water sources. Dike for water control.

SPECIFIC HAZARDS

In case of fire, toxic gases may be formed (COx, NOx).

6 ACCIDENTAL RELEASE MEASURES

ARBO 2020 CURING AGENT

PERSONAL PRECAUTIONS

Wear appropriate protective clothing. Avoid contact with eyes and skin.

ENVIRONMENTAL PRECAUTIONS

Do not allow into watercourses.

SPILL CLEAN UP METHODS

Absorb in vermiculite, dry sand or earth and place into containers.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Avoid spilling, skin and eye contact. Observe good chemical hygiene practices. Persons susceptible to allergic reactions should not handle this product.

STORAGE PRECAUTIONS

Store in tightly closed original container in a dry and cool place.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

| Name | Std | TWA - 8 hrs | | STEL - 15 min | | Notes |
|--------------------|-----|-------------|---------------|---------------|--|-------|
| DIETHYLENETRIAMINE | WEL | 1 ppm(Sk) | 4.3 mg/m3(Sk) | | | |

WEL = Workplace Exposure Limit.

INGREDIENT COMMENTS

WEL = Workplace Exposure Limits

PROTECTIVE EQUIPMENT



ENGINEERING MEASURES

Provide adequate ventilation.

RESPIRATORY EQUIPMENT

No specific recommendations.

HAND PROTECTION

Use protective gloves made of: Rubber, neoprene or PVC.

EYE PROTECTION

Wear approved safety goggles.

OTHER PROTECTION

Wear appropriate clothing to prevent any possibility of skin contact.

HYGIENE MEASURES

Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap & water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke. **DO NOT SMOKE IN WORK AREA!**

9 PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|------------------------|----------------------------|-----------|-------------------------|
| APPEARANCE | Paste | | |
| COLOUR | Light (or pale) | | |
| ODOUR | Amine. | | |
| VOLATILITY DESCRIPTION | Emits vapours if heated. | | |
| SOLUBILITY | Slightly soluble in water. | | |
| RELATIVE DENSITY | 1.72 - 1.75 @ 20°C | VISCOSITY | 4,000 - 6,000 Ps @ 20°C |
| FLASH POINT (°C) | >150 | | |

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions and recommended use.

CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition. Avoid contact with acids and oxidising substances.

ARBO 2020 CURING AGENT

HAZARDOUS DECOMPOSITION PRODUCTS

In case of fire, toxic gases (CO, CO₂, NO_x) may be formed.

11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50 Not determined.

INHALATION

Vapour may irritate respiratory system or lungs.

INGESTION

May cause chemical burns in mouth, oesophagus and stomach. Harmful if swallowed.

SKIN CONTACT

Causes burns. May cause sensitisation by skin contact.

EYE CONTACT

Risk of serious damage to eyes. Causes burns.

OTHER HEALTH EFFECTS

Toxic to Reproductive Health Category 3.

12 ECOLOGICAL INFORMATION

LC 50, 96 Hrs, FISH mg/l Not determined.

MOBILITY

The product is partly soluble in water. May spread in the aquatic environment.

BIOACCUMULATION

No data available on bioaccumulation.

DEGRADABILITY

There are no data on the degradability of this product.

ACUTE FISH TOXICITY

Not determined.

13 DISPOSAL CONSIDERATIONS

GENERAL INFORMATION

Waste is classified as hazardous waste.

DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

May be mixed with base component to give an inert polymeric material.

WASTE CLASS

H8 - Corrosive

H10 - Toxic for reproduction

H13 - Sensitising

Recommended EWC Code 08 04 09*

14 TRANSPORT INFORMATION

| | | | |
|----------------------|--|----------------|------|
| PROPER SHIPPING NAME | CORROSIVE SOLID, BASIC, ORGANIC, N.O.S. (Diethylenetriamine) | | |
| UN NO. ROAD | 3263 | ADR CLASS NO. | 8 |
| ADR CLASS | Class 8: Corrosive substances. | ADR PACK GROUP | III |
| HAZARD NO. (ADR) | 80 Corrosive or slightly corrosive substance. | UN NO. SEA | 3263 |
| IMDG CLASS | 8 | IMDG PACK GR. | III |
| EMS | 8-15 | UN NO. AIR | 3263 |
| AIR CLASS | 8 | AIR PACK GR. | III |

15 REGULATORY INFORMATION

ARBO 2020 CURING AGENT

LABELLING



Corrosive



Harmful

CONTAINS

DIETHYLENETRIAMINE
4,4'-ISOPROPYLIDENEDIPHENOL

RISK PHRASES

R34 Causes burns.
R43 May cause sensitisation by skin contact.
R62 Possible risk of impaired fertility.

SAFETY PHRASES

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
S60 This material and its container must be disposed of as hazardous waste.

EU DIRECTIVES

Dangerous Preparations Directive 1999/45/EC.

STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations. Control of Substances Hazardous to Health.

APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply.

GUIDANCE NOTES

Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

16 OTHER INFORMATION

REVISION COMMENTS

Revised sections: 13,

REVISION DATE 21/10/10

REV. NO./REPL. SDS GENERATED 14/11/07

SDS NO. 10188

SAFETY DATA SHEET STATUS

Approved.

RISK PHRASES IN FULL

R34 Causes burns.
R22 Harmful if swallowed.
R21/22 Harmful in contact with skin and if swallowed.
R37 Irritating to respiratory system.
R43 May cause sensitisation by skin contact.
R62 Possible risk of impaired fertility.
R41 Risk of serious damage to eyes.

DISCLAIMER

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 a process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.