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

#### **Product information**

Trade name : ARALDITE 2022 A

Use : Acrylate adhesive

Company : Huntsman Advanced Materials (Europe)BVBA

Everslaan 45

3078 Everberg / Belgium

Telephone : +41619661599 Telefax : +41619661589

Emergency telephone : +41 61 966 40 00 (in France ORFILA: +33(0)145425959)

number

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Chemical nature**

Mixture of acrylates preparation

#### **Hazardous components**

Chemical Name	CAS-No.	Symbol(s):	R-phrase(s)	Concentration [%]
methyl methacrylate	80-62-6	F, Xi	R11 R37/38 R43	50.00 - 62.00
EC-No.: 201-297-1				
maleic acid EC-No.: 203-742-5	110-16-7	Xn	R22 R36/37/38	1.00 - 10.00

## 3. HAZARDS IDENTIFICATION

Highly flammable.

Irritating to eyes, respiratory system and skin. May cause sensitization by skin contact.

#### 4. FIRST AID MEASURES

Inhalation : Move to fresh air.

Call a physician immediately.

Eye contact : Rinse immediately with plenty of water for at least 15 minutes.

If eye irritation persists, consult a specialist.

Skin contact: Wash off immediately with soap and plenty of water.

If skin irritation persists, call a physician.

Ingestion : Immediately give plenty of water (if possible charcoal slurry).

Do not induce vomiting. Obtain medical attention.

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5. FIRE-FIGHTING MEASURES

Suitable extinguishing

media

Water spray.

Carbon dioxide (CO2).

Foam. Dry powder.

Extinguishing media which must not be used for safety

reasons

High volume water jet.

Special protective equipment for fire-fighters

Further information

: Wear self-contained breathing apparatus and protective suit.

: Burning produces obnoxious and toxic fumes.

Carbon oxides.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions Keep away from sources of ignition - No smoking.

Avoid contact with skin, eyes and clothing.

Do not breathe vapours/dust.

Environmental precautions Prevent product from entering drains.

Do not contaminate surface water.

Avoid subsoil penetration.

Methods for cleaning up : Soak up with inert absorbent material and dispose of as

hazardous waste.

## 7. HANDLING AND STORAGE

Handling

Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms.

Handle and open container with care.

**Storage** 

Further information on storage conditions

Keep away from food, drink and animal feeding stuffs.

Keep container tightly closed.

Keep at temperatures between 2 and 8°C.

Storage hazard class Huntsman Advanced

Materials

: Storage class 3, Flammable liquids

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#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Control	Update	Basis
		parameters		
methyl methacrylate	80-62-6	210 mg/m3 420 mg/m3		CH-MAK 8H CH-MAK 15M

#### **Engineering measures**

Ensure adequate ventilation, especially in confined areas.

## Personal protective equipment

Respiratory protection : In case of insufficient ventilation wear suitable respiratory

equipment.

Filter type AX-P2 (organic vapours, particles)

Eye protection : Tightly fitting safety goggles.

Hand protection : Material of gloves for long term application (BTT>480 min):

Butyl rubber

Ethyl Vinyl Alcohol Laminate (EVAL)

Material of gloves for short term/splash application (10

min<BTT<480 min):

Nitrile rubber

Use gloves approved to relevant standards e.g. EN 374

(Europe), F739 (US).

Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove

material and dexterity. Always seek advice from glove

suppliers.

Additional information can be found for instance at

www.gisbau.de

Skin and body protection : long sleeved clothing

Hygiene measures : Keep away from food, drink and animal feeding stuffs.

Wash hands before breaks and immediately after handling the

product.

Protective measures : Keep away from sources of ignition - No smoking.

Avoid contact with skin, eyes and clothing.

Do not breathe vapours/dust.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Form : viscous

Form : liquid

Colour : off-white

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Odour : pungent

pH : < 7

at 50 g/l

Boiling point : 101 °C

Thermal decomposition : > 200 °C

Flash point : 10.6 °C

Method: DIN 51755 (Abel-Pensky Closed Cup)

Ignition temperature : > 430 °C

Lower explosion limit : 2 %(V)

Upper explosion limit : 12.5 %(V)

Vapour pressure : < 3,800 Pa

at 20 °C

Density : 1.03 g/cm3

at 25 °C

Water solubility : at 20 °C

Note: insoluble

Miscibility with water : immiscible

at 20 °C

Viscosity, dynamic : approx.70 Pa.s

at 25 °C

## 10. STABILITY AND REACTIVITY

Conditions to avoid : Note: Take necessary action to avoid static electricity

discharge.

Materials to avoid : Strong acids and strong bases.

Strong oxidizing agents.

Hazardous decomposition

products

: Carbon oxides. Burning produces obnoxious and toxic fumes.

## 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50 rat

Dose: > 2,000 mg/kg

Eye irritation : irritating

rabbit

Skin irritation : irritating

rabbit

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dermal

Sensitization : Causes sensitization on guinea-pigs.

guinea pig dermal

## 12. ECOLOGICAL INFORMATION

### Elimination information (persistence and degradability)

Biodegradability : Result: Not readily biodegradable.

#### **Ecotoxicity effects**

#### Further information on ecology

Additional ecological : Avoid subsoil penetration.

information Prevent product from entering drains.

Do not contaminate surface water.

## 13. DISPOSAL CONSIDERATIONS

Product : Must be incinerated, when in compliance with local regulations.

Container : Empty containers can be landfilled after cleaning, when in

compliance with the Environmental Protection (Duty of Care)

Regulations 1991.

Contaminated packaging : Waste Key Number: 305055

## 14. TRANSPORT INFORMATION

## Land transport

ADR:

UN-No: 1133
Class: 3
Classification code: F1
Packaging group: II
Risk No.: 33
ADR/RID-Labels: 3

Proper shipping name: ADHESIVES

RID:

UN-No: 1133
Class: 3
Packaging group: II
Risk No.: 33
ADR/RID-Labels: 3

Proper shipping name: ADHESIVES

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#### Sea transport

IMDG:

UN-No: 1133
Class: 3
Packaging group: II
ADR/RID-Labels: 3

MFAG:

EmS: F-E S-D ADHESIVES

#### Air transport

IATA-DGR:

UN/ID No.:
Class:
Packaging group:
UN 1133
II
Packing instruction (cargo 307

aircraft):

Max. Qty/Pack.: 60.00 L

(999.00 = No limit)

Packing instruction 305

(passenger aircraft):

Max. Qty/Pack.: 5.00 L

( 999.00 = No limit )

ADR/RID-Labels: 3

Proper shipping name: ADHESIVES

## 15. REGULATORY INFORMATION

## Labelling according to EEC Directive

Labelling required

Symbol(s): : F Highly flammable

Xi Irritant

R-phrase(s) : R11 Highly flammable.

R36/37/38 Irritating to eyes, respiratory system and

skin

R43 May cause sensitization by skin contact.

S-phrase(s) : S9 Keep container in a well-ventilated place.

S16 Keep away from sources of ignition. - No

smoking.

S24 Avoid contact with skin.
S29 Do not empty into drains.

S33 Take precautionary measures against static

discharges.

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Hazardous components : methyl methacrylate which must be listed on the

label

EC-No.: 201-297-1

#### **National legislation**

Water contaminating class slightly water endangering

Classified according to annex 4 of the German VwVwS for

preparations.

## **Notification status**

EINECS yes

TSCA yes

DSL yes

AICS yes

KECI (KR) yes

ENCS (JP) yes

INV (CN) yes

PICCS (PH) yes

## 16. OTHER INFORMATION

## List of R-phrases (Section 2)

R11 Highly flammable. Harmful if swallowed. R22

R36/37/38 Irritating to eyes, respiratory system and skin. Irritating to respiratory system and skin. R37/38 R43 May cause sensitization by skin contact.

All information is based on results gained from experience and tests and is believed to be accurate but is given without acceptance of liability for loss or damage attributable to reliance thereon as conditions of use lie outside our control. Users should always carry out sufficient tests to establish

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