according to applicable EC directive



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Ident-No: AGOMET U4

Version 6 Print Date 22.08.2007

Revision Date 16.08.2007

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

### **Product information**

Trade name : AGOMET U4

Use : Acrylate for adhesive systems

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

For further Product EHS related questions concerning this document or its contents, please

contact:

E-Mail: global\_product\_ehs\_admat@huntsman.com

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

### **Chemical nature**

Formulated methyl methacrylate preparation

## **Hazardous components**

Chemical Name	CAS-No.	Symbol(s):	R-phrase(s)	Concentration [%]
methyl methacrylate	80-62-6	F, Xi	R11 R37/38 R43	40.00 - 70.00
EC-No.: 201-297-1				
1,1'-(p-tolylimino)dipropan-2-	38668-48-	T	R25 R52/53	0.10 - 1.00
ol	3			
EC-No.: 254-075-1				

## 3. HAZARDS IDENTIFICATION

Highly flammable.

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

## 4. FIRST AID MEASURES

General advice : Take off all contaminated clothing immediately.

Inhalation : Move to fresh air.

Call a physician immediately.

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

and consult a physician.

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

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If skin irritation persists, call a physician.

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

Do not induce vomiting. Call a physician immediately.

## 5. FIRE-FIGHTING MEASURES

Suitable extinguishing

media

: Foam.

Dry powder.

Carbon dioxide (CO2).

Extinguishing media which must not be used for safety

ooooo

Water spray.

reasons

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 : Ensure adequate ventilation.

Keep away from sources of ignition - No smoking.

Use personal protective equipment.

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 (e.g. sand, silica gel, acid

binder, universal binder, sawdust).

## 7. HANDLING AND STORAGE

Handling

Advice on safe handling : Ensure adequate ventilation.

Handle and open container with care.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharges.

**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 18°C.

Storage hazard class : Storage class 3, Flammable liquids

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Huntsman Advanced Materials

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

## Components with workplace control parameters

Components	CAS-No.	Control	Update	Basis
		parameters		
methyl methacrylate	80-62-6	208 mg/m3 416 mg/m3		GB-OES 8H GB-OES 15M

## 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 : Rubber apron

Rubber or plastic boots.

Hygiene measures : Take off immediately all contaminated clothing.

When using, do not eat, drink or smoke.

Wash hands before breaks and at the end of workday.

Protective measures : Do not breathe vapours/dust.

Avoid contact with the skin and the eyes.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Form : liquid

Colour : green

Odour : ester-like

according to applicable EC directive

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Boiling point :  $> 100 \, ^{\circ}\text{C}$ 

Method: estimated

Thermal decomposition : > 200 °C

Flash point :  $> 10 \, ^{\circ}\text{C}$ 

Method: estimated

Ignition temperature : 430 °C

Lower explosion limit : 2.1 %(V)

Method: estimated

Upper explosion limit : 12.5 %(V)

Method: estimated

Vapour pressure : < 3,800 Pa

at 20 °C

Method: estimated

Density : approx.1 g/cm3

at 20 °C

Water solubility : approx.< 16 g/l

Method: estimated Note: partly soluble

Miscibility with water : immiscible

Viscosity, dynamic : 43,000 - 53,000 mPa.s

at 23 °C

Relative vapour density : approx.1

at 20 °C

## 10. STABILITY AND REACTIVITY

Materials to avoid : reducing agents

heavy metal salts

oxidizing agents (strong)

Hazardous decomposition

products

: Carbon oxides. Burning produces obnoxious and toxic fumes.

## 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50 rat

Dose: > 2,000 mg/kg

Remarks: Information given is based on data on the components and the toxicology of similar products.

Acute inhalation toxicity : LC50 rat

Dose: > 20 mg/l

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Remarks: Information given is based on data on the components and the toxicology of similar products.

Acute dermal toxicity : LD50 rabbit

Dose: > 5,000 mg/kg

Remarks: Information given is based on data on the components and the toxicology of similar products.

Eye irritation : Mild eye irritation

rabbit

Skin irritation : irritating

rabbit

Information given is based on data on the components and the

toxicology of similar products.

Sensitization : Causes sensitization.

guinea pig dermal

Information given is based on data on the components and the

toxicology of similar products.

## 12. ECOLOGICAL INFORMATION

## Elimination information (persistence and degradability)

Biodegradability : Result: Readily biodegradable, according to appropriate OECD

test. < 94 % Remarks:

Information given is based on data on the components and the

ecotoxicology of similar products.

## **Ecotoxicity effects**

Toxicity to fish : LC50

Species: Rainbow trout Dose: > 79 mg/l Exposure time: 96 h

Remarks:

Information given is based on data on the components and the

ecotoxicology of similar products.

Toxicity to daphnia : EC50

Species: Daphnia magna Straus 1820

Dose: > 69 mg/l Exposure time: 48 h

Remarks:

Information given is based on data on the components and the

ecotoxicology of similar products.

Toxicity to daphnia : EC50

Species: Daphnia magna Straus 1820

Dose: 49 mg/l

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Exposure time: 21 h Method: OECD 202/2

Remarks:

Information given is based on data on the components and the

ecotoxicology of similar products.

Toxicity to bacteria : EC0

Species: Pseudomonas Putida

Dose: 100 mg/l Remarks:

Information given is based on data on the components and the

ecotoxicology of similar products.

Further information on ecology

Additional ecological : Prevent product from entering drains. Information : Do not contaminate surface water.

13. DISPOSAL CONSIDERATIONS

Product : Waste Key Number: 080402

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.

## 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

Sea transport

IMDG:

according to applicable EC directive



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#### Ident-No: **AGOMET U4**

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

MFAG:

EmS: F-E S-D Proper shipping name: **ADHESIVES** 

## Air transport

IATA-DGR:

UN/ID No.: **UN 1133** Class: 3 Packaging group: Ш Packing instruction (cargo 307

aircraft):

Max. Qty/Pack.: 60.00 L

(999.00 = No limit)

305 Packing instruction

(passenger aircraft):

Max. Qtv/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

> Χi Irritant

R-phrase(s) R37/38 Irritating to respiratory system and skin.

> Highly flammable. R11

May cause sensitization by skin contact. R43

Keep away from sources of ignition. - No S-phrase(s) S16

smoking.

S26 In case of contact with eyes, rinse

immediately with plenty of water and seek

medical advice.

S37/39 Wear suitable gloves and eye/face

protection.

Hazardous components

which must be listed on the

label

: methyl methacrylate EC-No.: 201-297-1

according to applicable EC directive



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**National legislation** 

**Notification status** 

: EINECS yes

: TSCA ves

: DSL no

: AICS no

: KECI (KR) no

: JEX (JP) yes

## **16. OTHER INFORMATION**

### List of R-phrases (Section 2)

R11 Highly flammable. R25 Toxic if swallowed.

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

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

The provision of Safety Data Sheets comes under Regulation 6 of CHIP (CHIP is the recognised abbreviation for the Chemicals Hazard Information and Packaging Regulations). This is an addition to the Health and Safety at Work Act 1974. Users of products supplied by Huntsman Advanced Materials should take appropriate measures to ensure working practices are in accordance with the Control of Substances Hazardous to Health Regulations (COSHH).

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 the suitability of any products for their intended applications. No statements shall be incorporated in any contract unless expressly agreed in writing nor construed as recommending the use of any product in conflict of any patent. All goods are supplied subject to Huntsman Advanced Materials General Conditions of Sale.