SAFETY DATA SHEETS

This SDS packet was issued with item:

078862145

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

078347348 078351925 078352354 078366148 078916263

Status: 30-7-2002

Version: 0

Concert monomer



1. Identification of the Substance/Preparation and of the Company/Undertaking

Concert Monomer

EMCM B.V.

Middenkampweg 17 NL-6545 CH Nijmegen The Netherlands

Tel: +31 (0)24-3715252 Fax: +31 (0)24-3715253

2. Composition/Information on Ingredients

Methacrylic acid methyl ester or methyl methacrylate

INDEX Number

607-035-00-6

EINECS Number

201-297-1

CAS No.

80-52-8

3. Hazards Identification

Highly flammable.

Imitating to eyes, respiratory system and skin.

May cause sensitization by skin contact.

4. First Aid Measures

General Information

Remove solled, socked clothing immediately. Medical treatment is necessary if symptoms occur which are obviously caused by skin or eye contact with the product or by inhalation of its vapours.

After Inhalation

Move subject to fresh air and keep him calm. See a physician.

After contact with eyes

Flush eyes thoroughly with a large amount of water and consult a physician.

After contact with skin

Wash off immediately with soap and water, if skin inflation occurs consult a physician.

After Impaction

Do not induce vomiting. Call a physician immediately.

5. Fire-fighting Measures

Suitable extinguishing media

foam, dry chemical, carpon dioxide

Unsultable extinguishing media for safety reasons

water

Special protective equipment for fire fighting

Wear self-contained breathing apparatus.

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Accidental Release Measures

Precautionary measures related to people

Take care for adequate ventilation. Use personal protective clothing. Keep away sources of ignition. Use breathing apparatus if exposed to vapours/dust/mist/aerosol.

Environmental protective measures

Prevent product from getting into drains/surtace water/groundwater,

Methods of cleaning / adsorption

Larger quantities: Remove mechanically (by pumping). Use explosion-proof equipment! Smaller quantities and/or residues: Contain with absorbent material (e.g. sand, diatomaceous earth, acid absorbent, universal absorbent or sawdust). Dispose of in accordance with regulations.

7. Handling and Storage

Handling

instructions on safe handling

Keep container tightly closed. Ensure the area is well ventilated.

Information on fire and explosion protection

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges in the event of fire, cool the andangered containers with water. When heated above the flash point and/or during spraying (atomizing), ignitible mixtures may form in air. Use explosion-proof equipment only.

Storage

Requirements for storage areas and containers

Keep only in the original container at a temperature not exceeding 30 °C. Fill the container by approximately 90 % only as oxygen (air) is required for stabilisation. With large storage containers make sure the oxygen (air) supply is sufficient to ensure stability. Protect from light.

8. Exposuro Controls/Personal Protection

Personal protective equipment

General protective measures

Do not inhale vapours. Avoid contact with eyes and skin.

Store work clothing separately. Remove soiled or soaked clothing immediately. Follow the usual good standards of occupational hygiene.

Respiratory protection

Breathing apparetus in case of high concentrations, short term: filter appliance, filter A Hand protection

In permeation tests butyl and nitrile rubber gloves perform better than latex or natural rubber. Gloves should be replaced regularly, especially after extended contact with the product, For each work-place a sultable glove type has to be selected.

Eye protection

tightly fitting goggles

Body protection

on handling of larger quantities: face mask, chemical-resistant boots and apron

9. Physical and Chemical Properties

Appearance

Form: David Colour: colouness Odour : ester-like

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Data relevant to safety

Changes in physical state

Melting temperature

Boiling Temperature

Flash point Ignition temperature

Spontaneous ignition

Lower explosion limit Upper explosion limit

Vapour pressure

Density Relative vapour density

(related to air) Solubility in water

Solubility (qualitative)

1.0 epilev-Hq

n-Octanoliwater partition coefficient

Viceosity (dynamic)

Further Information

-48,2 °C

100,3 °C at 1.013 hPa

10°C (DIN 51755)

430 °C (DIN 51794)

not determined

2,1 %(V) 12,5 %(V)

38,7 hPa at 20 °C

0,94 g/cm3 at 20 °C

> 1 at 20 °C

16,0 g/l at 20 °C

Miscible with most organic solvents

not applicable

log Pow 1,38 (measured) source: literature

1 2 4 clay 170 to 0,63 mPa.s at 20 °C (Brookfield)

none

10. Stability and Reactivity

Thermal decomposition

No decomposition when used as directed.

Hazardous reactions

Polymerization with heat evolution may occur in the presence of radical forming substances (e.g. peroxides), reducing aubstances, and/or neavy metal lons.

Hazardous decomposition products

None when used as directed.

11. Toxicological Information

Acute oral toxicity

LO50 rat, OECD 401 source: literature

Acute inhalational toxicity LC50 rat, 4 h

scurce: literature

Acute dermal toxicity LD50 rabbit source: literature

Irritant effect on the skin not imitating

rabbit, 24 h, occlusive, FDA Draize Irritant effect on the eyes

not initating rabbit, Draize > 5.000 mg/kg

29,8 mg/l

> 5,000 mg/kg

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Sensitization

In sensitisation tests on guinea pigs with and without adjuvant, both positive and negative results were found, source: literature

In humans various types of allergic reactions have been observed (symptoms: headache, eye irritations, skin affections), source: literature

Texicity on repeated administration

rat, inhalational, 2 a, 6 h/d, 5 d/w, 25 - 400 ppm

NOAEL

25 ppm

Findings: damage to the nasal mucosa

source: literature

rat, in drinking water, 2 a, 7 d/w, 0 - 2000 ppm

NOAEL

2000 ppm

Findings: no toxic effects

source: literature

Mutagenicity

Positive as well as negative results in in vitro mutagenicity/ genotoxicity tests.

No experimental information on genotoxicity in vivo available.

In summary not mutagenic according to internationally accepted criteria.

source: literature

Carcinogenicity...

Non-carcinogenic in Inhalation and feeding studies carried out on rats, mice and dogs.

source: literature

Reprotoxicity / teratogenicity

No indications of toxic effects were observed in reproduction studies in animals.

source: literature

Further Information on toxicology

Avoid contact with the skin and eyes and inhalation of the product vapours.

12. Ecological Information

Information on elimination (persistence and degradability)

Blodegradability

readily degradablo, OECD 301 O, 14 d

source: literature

94 %

Ecotoxicological effect

Fish toxicity

LC50 oncorhynchus mykiss, rainbow trout, OECD 203, GLP, 96 h

> 79 mg/l

source; literature

Daphnia toxicity EC50 daphnia magna, OECD 202, 48 h 69 mg/l

source: literature

EC50 daphnia magna, OECD 202 part 2, flow through, 21 d

. . .

source: literature

49 mg/l

Algae toxicity

EC3 scenedesmus quadricauda. DIN 38412 section 9, 8 d

37 mg/l

source: literature

EC50 selenastrum capricomutum, OECD 201, 96 h

170 mg/l

source: literature

Bacteria toxicity

ECO pseudomonas putida

100 mg/i

source: literature

Further information on ecology

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Do not allow to enter soil, waterways or waste water

13. Disposal considerations

Product

Waste is hazardous and therefore particularly to be kept under surveillance. It must be disposed of in accordance with the regulations after consultation of the competent local authorities and the disposal company in a suitable and licensed facility.

Uncleaned packaging

Conteminated packaging should be emptied optimally and after appropriate professional cleansing may be taken for reuse. Packaging that cannot be cleaned should be disposed of professionally. Uncontaminated packaging may be taken for recycling.

Code of waste EWC

07 02 08

waste from the manufacture, formulation, supply and use (MFSU) of plastics, synthetic rubber and man-made fibres - other still bottoms and reaction residues

Always check the given waste codes according to the actual conditions of manufacturing, formulation or use in your facilities.

14. Transport Information

Overland transport GGVS/ADR, GGVE/RID

Hazard no. 339 Class 3 item 3b

UN number 1247

Technical dispatch name

1247 methyl methacrylate, monomer, inhibited

Inland waterway transport ADNR

Class 3 item 3b

UN number 1247

Technical dispatch name

1247 methyl methacrylate, monomer, inhibited

Shipment by sea IMDG/GGVSee

Class 3,2

EmS 3-07

MFAG 330

UN number 1247

Marine pollutant

Packed (+/0): 0

Packaging group

Proper Shipping Name Methyl methacrylate. monomer, inhibited

Air transport ICAO/IATA

Class 3

UN number 1247

Packaging group Proper Shipping Name

Methyl methacrylate, monomer, inhibited

Methyl methacrylate, monomer, inhibited

UN number 1247

15, Regulatory Information

Labelling in accordance with EC directives

requires labelling

Hazardous component(s) for labelling

methyl methacrylate

Hazard symbol(s)

Χi

Highly flammable

Irritant

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וושרת	1636137

11	Highly flammable.
36/37/38	Imitating to eyes, respiratory system and skin.
43	May cause sensitization by skin contact.
•	

5-phrase(s)

43	May cause senginzation by skin contact.
9	Keep container in a well-ventilated place.
16	Keep away from sources of Ignition No smoking.
29	Do not empty into drains.
33	Take preceutionary measures against static discharges.

Status of Registration

EINECS/ELINCS: listed

16. Other Information

Miscellaneous information

The product is normally supplied in a stabilized form, it the permissible storage period and/or storage temperature is noticeably exceeded, the product may polymenze with heat evolution.