Safety Data Sheet according to Regulation (EU) No. 1907/2006 HEKAPUR Fast Cast Resin M4 Component A

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : HEKAPUR Fast Cast Resin M4 Component A

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the : Casting Resin

Substance/Mixture

1.3 Details of the supplier of the safety data sheet

Exact Plastics GmbH Phone: +49 (0) 5144 4955648 Genossenschaftsstr. 12 Fax: +49 (0) 5144 4955649

D-29356 Bröckel E-Mail: info@exact-plastics-gmbh.de

1.4 Emergency telephone number

+49 (0) 5144 4955648

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Eye irritation , Category 2 H319: Causes serious eye irritation.

Aspiration hazard , Category 1 H304: May be fatal if swallowed and enters

airways.

Chronic aquatic toxicity, Category 2 H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)







Hazard pictograms

Signal word : Danger

Hazard statements : H304 May be fatal if swallowed and enters

airways.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

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Precautionary statements : **Prevention**:

P273 Avoid release to the environment.
P280 Wear eye protection/ face protection.

Response:

P301 + P310 IF SWALLOWED: Immediately call a

POISON CENTER/doctor.

P331 Do NOT induce vomiting.

P337 + P313 If eye irritation persists: Get medical advice/

attention.

P391 Collect spillage.

Hazardous components which must be listed on the label: bis(isopropyl)naphthalene

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Polyether/polyesther polyol based mixture

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
bis(isopropyl)naphthalene	38640-62-9 254-052-6	Asp. Tox.1; H304 Aquatic Chronic1; H410	>= 20 - < 25
Polyether Polyol	25214-63-5 01-2119471485-32- 0002	Eye Irrit.2; H319	>= 12,5 - < 20
distillates (petroleum), hydrotreated light	64742-47-8 265-149-8 /	Asp. Tox.1; H304	>= 10 - < 12,5
Polypropylene glycol	25322-69-4 /	Acute Tox.4; H302	>= 5 - < 7

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Keep warm and in a quiet place.

Show this safety data sheet to the doctor in attendance.

Take off all contaminated clothing immediately.

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If inhaled : Move to fresh air.

Keep patient warm and at rest. If symptoms persist, call a physician.

In case of skin contact : Wash off immediately with soap and plenty of water.

Do NOT use solvents or thinners. If on clothes, remove clothes.

If skin irritation persists, call a physician.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids,

for at least 15 minutes.

If eye irritation persists, consult a specialist. If easy to do, remove contact lens, if worn.

If swallowed : Keep at rest.

Do not induce vomiting without medical advice.

Keep respiratory tract clear.

If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : irritant effects

Lachrymation Redness

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : The first aid procedure should be established in consultation

with the doctor responsible for industrial medicine.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Foam

Sand

Carbon dioxide (CO2)

Water mist

Unsuitable extinguishing

media

: Water spray jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during

firefighting

: The pressure in sealed containers can increase under the

influence of heat.

Cool closed containers exposed to fire with water spray.

5.3 Advice for firefighters

Special protective equipment

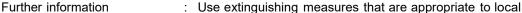
for firefighters

: In the event of fire, wear self-contained breathing apparatus.

Use personal protective equipment.

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circumstances and the surrounding environment. Immediately evacuate personnel to safe areas.

Prevent fire extinguishing water from contaminating surface

water or the ground water system.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Refer to protective measures listed in sections 7 and 8.

Evacuate personnel to safe areas. Use personal protective equipment. Ensure adequate ventilation.

Inform the responsible authorities in case of gas leakage, or of

entry into waterways, soil or drains.

6.2 Environmental precautions

Environmental precautions : Do not allow uncontrolled discharge of product into the

environment.

Try to prevent the material from entering drains or water

courses.

Local authorities should be advised if significant spillages

cannot be contained.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to

local / national regulations (see section 13).

Pick up and transfer to properly labelled containers.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

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

Avoid inhalation, ingestion and contact with skin and eyes.

Wear personal protective equipment.

Advice on protection against

fire and explosion

: Keep away from open flames, hot surfaces and sources of

ignition.

Hygiene measures : Provide adequate ventilation. Wash hands and face before

breaks and immediately after handling the product.

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7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage

areas and containers

: Keep containers tightly closed in a dry, cool and wellventilated place. Keep in properly labelled containers. To maintain product quality, do not store in heat or direct sunlight.

Advice on common storage

: Keep product and empty container away from heat and

sources of ignition.

Keep away from food and drink.

Other data : Stable at normal ambient temperature and pressure.

7.3 Specific end use(s)

Specific use(s) : Consult the technical guidelines for the use of this

substance/mixture.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

bis(isopropyl)naphthalene : End Use: Consumers

Exposure routes: Ingestion

Potential health effects: Long-term systemic effects

Value: 2,1 mg/kg End Use: Consumers

Exposure routes: Skin contact

Potential health effects: Long-term systemic effects

Value: 2,1 mg/kg End Use: Workers

Exposure routes: Skin contact

Potential health effects: Long-term systemic effects

Value: 4,3 mg/kg End Use: Consumers Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 7,4 mg/m3 End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 30 mg/m3

Polyether Polyol : End Use: Workers

Exposure routes: Skin contact Value: 13,9 mg/kg End Use: Workers Exposure routes: Inhalation Value: 98

mg/m3

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

bis(isopropyl)naphthalene : Sewage treatment plant

Value: 0,15 mg/l

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Fresh water

Value: 0,00026 mg/l

Marine water

Value: 0,000026 mg/l Fresh water sediment Value: 0,94 mg/kg Marine sediment Value: 0,094 mg/kg

Soil

Value: 0,19 mg/kg

8.2 Exposure controls

Engineering measures

Effective exhaust ventilation system effective ventilation in all processing areas

Personal protective equipment

Eye protection Do not wear contact lenses.

Safety glasses with side-shields conforming to EN166

Ensure that eyewash stations and safety showers are close to

the workstation location.

Hand protection

Material Chemical resistant gloves made of butyl rubber or nitrile

rubber category III according to EN 374.

Skin and body protection : Protective suit

Respiratory protection Use respiratory protection unless adequate local exhaust

ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. In the case of vapour formation use a respirator with an

approved filter.

Respirator with a vapour filter (EN 141)

Apply technical measures to comply with the occupational

exposure limits.

This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation.

Protective measures Avoid contact with skin.

Wear suitable protective equipment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

: liquid **Appearance**

Colour : coloured

Odour : slight

Odour Threshold : not determined



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pH : not determined

Melting point/freezing point : Not applicable

Boiling point/boiling range : > 200 °C

Flash point : 100 °C Evaporation

rate : not determined

Upper explosion limit : Not applicable

Lower explosion limit : Not applicable

Vapour pressure : Not applicable

Relative vapour density : not determined

Density : 1,04 g/cm3 (25 °C)

Bulk density : not determined

Solubility(ies)

Solubility in other solvents : not determined

Partition coefficient: n-

octanol/water

: No data available

Auto-ignition temperature : Not applicable

Thermal decomposition : Method: No data available

Viscosity

Viscosity, dynamic : 90 - 180 mPa.s (25 °C)

Viscosity, kinematic : not determined

Explosive properties : Not applicable

Oxidizing properties : Not applicable

9.2 Other information

Surface tension : not determined

Sublimation point : Not applicable



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SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : Reacts with the following substances:

Isocyanates

Keep away from oxidizing agents, and acidic or alkaline

products.

10.4 Conditions to avoid

Conditions to avoid : No decomposition if used as directed.

10.5 Incompatible materials

Materials to avoid : Incompatible with oxidizing agents.

10.6 Hazardous decomposition products

Hazardous decomposition

products

: No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate : > 2.000 mg/kg

Method: Calculation method

Components:

bis(isopropyl)naphthalene:

Acute inhalation toxicity : LC50 (Rat, male and female): > 5,64 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

GLP: yes

Acute dermal toxicity : LD50 (Rat, male and female): > 4.000 mg/kg

Method: OECD Test Guideline 402

GLP: yes

distillates (petroleum), hydrotreated light:

Acute oral toxicity : LD50 (Rat, male and female): > 5.000 mg/kg

Method: OECD Test Guideline 401

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GLP: yes

Acute inhalation toxicity : LC50 (Rat, male and female): 4,951 mg/l

Exposure time: 4 h

Method: OECD Test Guideline 403

GLP: yes

Acute dermal toxicity : LD50 (Rabbit, male and female): > 5.000 mg/kg

Method: OECD Test Guideline 402

GLP: yes

Skin corrosion/irritation

Product:

Remarks: No data available

Components:

bis(isopropyl)naphthalene:

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

GLP: yes

distillates (petroleum), hydrotreated light:

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

GLP: yes

Serious eye damage/eye irritation

Product:

Remarks: No data available

Components:

bis(isopropyl)naphthalene:

Species: Rabbit

Method: OECD Test Guideline 405

Result: No eye irritation

GLP: yes

Respiratory or skin sensitisation

Product:

Remarks: No data available

Components:

bis(isopropyl)naphthalene:

Test Type: Maximisation Test Exposure routes: Dermal

Species: Guinea pig

Method: OECD Test Guideline 406



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Result: Does not cause skin sensitisation.

GLP: yes

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

STOT - single exposure

Product:

Remarks: Not applicable

STOT - repeated exposure

Repeated dose toxicity

Product:

Remarks: No data available

Aspiration toxicity

Further information

Product:

Remarks: No data available

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other

aquatic invertebrates

: Remarks: No data available

Components:

bis(isopropyl)naphthalene:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): > 0,5 mg/l

Exposure time: 96 h
Test Type: semi-static test

Method: Directive 67/548/EEC, Annex V, C.1.

GLP: yes

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 1,7 mg/l

Exposure time: 48 h

Test Type: semi-static test

Method: OECD Test Guideline 202

GLP: yes



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Toxicity to daphnia and other : NOEC: 0,013 mg/l aquatic invertebrates : Exposure time: 21 d

(Chronic toxicity) Species: Daphnia magna (Water flea)

Test Type: semi-static test

distillates (petroleum), hydrotreated light:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 1.000 mg/l

Exposure time: 48 h Test Type: semi-static test

Method: OECD Test Guideline 203

GLP: yes

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): > 1.000 mg/l

Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae : ErC50 (Pseudokirchneriella subcapitata (green algae)): >

1.000 mg/l

Exposure time: 72 h Test Type: static test

Method: OECD Test Guideline 201

GLP: yes

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: No data available

Components:

bis(isopropyl)naphthalene:

Biodegradability : Test Type: aerobic

Result: Not readily biodegradable. Method: OECD Test Guideline 310

GLP: yes

distillates (petroleum), hydrotreated light:

Biodegradability : Test Type: aerobic

Result: Readily biodegradable Method: OECD Test Guideline 301F

GLP: yes

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data available

Components:

bis(isopropyl)naphthalene:

Bioaccumulation : Species: Cyprinus carpio (Carp)

Bioconcentration factor (BCF): > 500



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Method: OECD Test Guideline 305

GLP: yes



No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher...

12.6 Other adverse effects

Product:

Additional ecological

information

: Remarks: An environmental hazard cannot be excluded in the

event of unprofessional handling or disposal.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : In accordance with local and national regulations.

Container hazardous when empty.

Do not dispose of with domestic refuse.

Do not mix waste streams during collection.

Contaminated packaging : Empty containers should be taken to local recyclers for

disposal.

SECTION 14: Transport information

14.1 UN number

 ADR/RID/ADN
 : UN 3082

 IMDG
 : UN 3082

 IATA
 : UN 3082

14.2 UN proper shipping name

ADR/RID/ADN : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Bis(isopropyl)naphthalene isomers)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S

(Bis(isopropyl)naphthalene isomers)

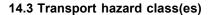
IATA : Environmentally hazardous substance, liquid, n.o.s.

(Bis(isopropyl)naphthalene isomers)



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 ADR/RID/ADN
 : 9

 IMDG
 : 9

 IATA
 : 9

14.4 Packing group

ADR/RID/ADN

Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9

Remarks : ADR: These substances when carried in single or

combination packagings containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids, are not

subject to any other provisions of ADR provided the

packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and

4.1.1.4 to 4.1.1.8.

IMDG

Packing group : III Labels : 9

EmS Code : F-A, S-F

Remarks : IMDG: Marine pollutants packaged in single or combination

packagings containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids are not subject to any other provisions of this Code relevant to marine

pollutants provided the packagings meet the general

provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. In thecase of marine pollutants also meeting the criteria for inclusion in another hazard class all provisions of this Code relevant to

any additional hazards continue to apply.

IMDG Code segregation group - none

IATA

Packing instruction (cargo : 964

aircraft)

Packing instruction : 964

(passenger aircraft)

Packing group : III Labels : 9

Remarks : IATA: These substances when transported in single or

combination packagings containing a net

quantity per single or inner packaging of 5 L or less far liquids

or having a net mass of 5 kg or less for

solids, are not subject to any other provisions of these

Regulations provided the packagings meet the

general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

14.5 Environmental hazards



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ADR/RID/ADN

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances,

preparations and articles (Annex XVII)

: Xylene, mixture of isomers

iso-butanol

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

: This product does not contain substances of very high concern

Quantity 2

(Regulation (EC) No

Quantity 1

1907/2006 (REACH), Article 57).

REACH - List of substances subject to authorisation

(Annex XIV)

: Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

E2	ENVIRONMENTAL HAZARDS	200 t	500 t
34	Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams),(d) heavy fuel oils	2.500 t	25.000 t

15.2 Chemical safety assessment

Not applicable

SECTION 16: Other information

Full text of H-Statements

H302 : Harmful if swallowed.

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H304 : May be fatal if swallowed and enters airways.

H319 : Causes serious eye irritation.

H410 : Very toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Chronic : Chronic aquatic toxicity
Asp. Tox. : Aspiration hazard
Eye Irrit. : Eye irritation

Further information

Training advice : Provide adequate information, instruction and training for

operators.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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 any process, unless specified in the text.

