

Trade name: KAGESOL EP-B950L
Component B

Product-no. 1950 L updated on 29/01/2005

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1. material-/preparation- and company name

name : KAGESOL EP-B950L (component B)
manufacturer : van Koetsveld & Grimberg GmbH, Röntgenstr. 7a, D-48599 Gronau
telephone : +49/2562-26334
information section : coating, +49/2562-4700

2. composition / information about components

chemical characteristics: modified polyamine

components	CAS-No.	hazard symbols	R-phrases	part
isophoronediamine	2855-13-2	C	-R21/22-R34-R43- -R52/53-	12 - 22 %
tetraethylene- pentamine	112-57-2	C, N	-R21/22-R34-R43- -R51/53	4 - 8 %
benzylalcohol	100-51-6	Xn	-R20/22-	3 - 7 %

3. possible hazards

Harmful in contact with skin and if swallowed.
Causes burns.
Skin contact can cause sensitization.

4. first -aid steps

eye contact : Immediately flush eyes with running water for at least 15 minutes.
Consult eye doctor.

skin contact : Quickly remove contaminated clothing.. Rinse affected skin with mild
cleaning solution in much water. If skin irritation persists or becomes
infected consult a physician.

inhalation : Remove victim into fresh air. If feeling sick consult a physician.

swallowing : Do not induce vomiting. Give water in small amounts to drink (diluting
effect). Immediately consult a physician.

notice for physician : Treat chemical burns like burn wounds.

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5. steps for fire fighting

- special danger : In case of fire carbonmonoxide and other gases or steams which are hazardous to human health can be given off in addition to carbondioxide and water. In particular beware of development of nitrous gases.
- protective gear : Use respiratory equipment with independent air supply.
- right fire extinguishers : Water mist / low pressure stream, dry chemical fire extinguisher (BC-powder), foam, carbondioxide
- wrong fire extinguishers : High pressure jet.
-

6. steps by unintentional release

- personal precautions : Avoid skin and eye contact. Insure proper ventilation. Wear protective clothing.
- environmental safety precautions : Do not drain into water, sewersystem or soil.
- cleaning methods : Large amounts:
Treat the leaking product with drysweep material to control spreading and pump it up.
Small amounts:
Spread drysweep material (sand etc.) over leaking product and dispose off properly.
- additional instructions : For disposal see section 13.
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7. handling and storage

- advices for safe handling : Use only in well ventilated areas.
- advices for protection against fire and explosion : Keep away from all sources of ignition – No smoking.
- storage : Store in closed original container between 10 - 20°C in dry well ventilated room.

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8. exposition limit and personal protective gear

danger level of components in relation to work area (Germany):

none

personal protective gear

respiratory equipment : Gasfilter type A, if technical precautions for suction are not efficient.
Combination filter A/ P2 if used for spray / mist application.

eye protection : Close fitting goggles.

hand protection : Long sleeved butyl rubber or nitril protective gloves.

body protection : To prevent body contact wear rubber or plastic apron / appropriate arm protection.

hygiene rules : Quickly remove contaminated clothing. Use skin protection cream before work. Wash hands after work day ends and before breaks. Never eat, drink or smoke while working.

9. physical and chemical properties

state of aggregation : liquid
color : uncolored ore yellowish
smell : smell of amine

facts relevant to security

boiling start : approx. 135°C at 1013 hpa

flash point : approx. 88°C (DIN 51758)

thermic decomposition : > 250°C

density : 0.96 g/cm³ at 20°C (DIN 51757)

solubility in water : partially soluble

pH-value : 12 (dispersed in water, 50 %) at 20°C

viscosity : 230 - 300 mPas at 23°C

10. stability and reactivity

dangerous reactions : Strong reaction with acids and epoxy resins.

dangerous decomposition products : None, if stored and handled properly.

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11. information about toxicology

acute toxicity (lethal doses)

LD₅₀ oral, rat:

dose : 200 - 2000 mg/kg

acute toxicity (primary irritation effect, sensitization)

irritation effect on skin, rabbit:

result : caustic

irritation effect on eye, rabbit:

result : caustic

further informations : Based on the content of corrosive substances the product can be corrosive in contact with skin and eyes.
Based on the content of substances causing allergic reactions in animal tests the product can cause sensitization in contact with skin.

12. information about the ecology

There is no ecological data at this point. Avoid penetration of product into sewer, water and soil. The informations mentioned below are valid for isophoronediamine.

fish toxicity LC₅₀:
(goldorfe) 185 mg/l/48h

daphnia toxicity EC₅₀ :
(Daphnia magna Straus) 42 mg/l/24h

alge toxicity EC₅₀ : 37 mg/l/72h
(Scenedesmus subspicat)

bacteria toxicity EC₅₀ : > 100 mg/l

13. notice about disposal

product : Burn under observation of the official laws in special incinerating plant.

code of disposal : 080102 old paints and varnishes containing no chlorinated solvents

packing material : Reusable after cleaning. Dispose cleaning solvent like product.

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14. information about transportation

UN2735 amines liquid, corrosive n.o.s. (isophoronediamine)

Landtransport ADR/RID/GGVSE

classification : 8
packing group : III
packing/tank instructions : P001, IBC03, LP01, R001, T7, L4BN

Seatransport IMDG/GGVSee

classification : 8
packing group : III
EmS-No. : 8-05
Marine pollutant : yes
MFAG-No. (first) : 320

Airtransport ICAO/IATA

classification : 8
packing group : III
packing instruction pass. : 818
Packing instruction cao : 820

15. regulations

characterize according to EG guideline 88/379/EWG and its adjustments and changes.

hazard symbol : (C) corrosive

R-phrases : R21/22 Harmful in contact with skin and if swallowed.
R34 Causes burns.
R43 May cause sensitization by skin contact.
R52/53 Harmful to aquatic organisms. May have long-term adverse effects in the aquatic environment.

S-phrases : S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28 After contact with skin, wash immediately with plenty of water and soap.
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 the label where possible).
S61 Avoid release to the environment. Refer to special instructions/safety data sheet.

dangerous components : isophoronediamine
tetraethylenepentamine

national regulations

(Germany):

waterpollutant class : (2) water pollutant (self judgement according to german regulations)
VbF: no classification

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16. further instructions

In general we recommend you to pay attention to the following data sheet for secure handling of epoxy resin and -hardener.

Data sheet M 004: Irritant/corrosive agents

Data sheet M 023: Manufacture of polyester- and epoxy resins.

(published by the occupation association of the chemical industry)

R-phrases mentioned in chapter 2:

R20/22 Harmful by inhalation and if swallowed.

R21/22 Harmful in contact with skin and if swallowed.

R34 Causes burns.

R43 May cause sensitization by skin contact.

R51/53 Toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment.

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

These instructions are based on up to date knowledge and experience. The safety data sheet describes the safety requirements for products. Manufacturer claims no responsibility for variances in data. No legal obligation can be deducted from the above mentioned properties.