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

1.1 Product identifier

Trade name : ipox EH 2350

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

Recommended use: Chemicals for paints, varnishes and coating materials. Chemicals for the construction industry. Curing agent for epoxy systems.

Restricted to professional users.

1.3 Details of the supplier of the safety data sheet

ipox chemicals Kft.
Helsinki út 114.
H-1238 Budapest
Tel.: +36 1 421 7040
Fax: +36 1 421 7041
sds @ ipox-chemicals.hu
www.ipox-chemicals.hu

1.4 Emergency telephone number

Tel.: +36 1 421 7042

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC

Danger : C corrosive

R phrase(s) : R20/22 Harmful by inhalation and if swallowed.

R34 Causes burns.

R43 May cause sensitization by skin contact.

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

environment.

R62 Possible risk of impaired fertility.

2.2 Label elements

Labelling (67/548/EEC or 1999/45)

Indication(s) of danger: C corrosive



R phrase(s) : R20/22 Harmful by inhalation and if swallowed.

R34 Causes burns.

R43 May cause sensitization by skin contact.

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

environment.

R62 Possible risk of impaired fertility.

S phrase(s) : S20/21 When using do not eat, drink or smoke.

S24/25 Avoid contact with skin and eyes.

S28 After contact with skin, wash immediately with plenty of water.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S61 Avoid release to the environment. Refer to special instructions / safety data sheet.

2.3 Other hazards

No information available.

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SECTION 3: Composition/information on ingredients

chemical characterization

mixture

Hazardous ingredients

Substance 1

Polyaminoamid: 25 % - 50 %

CAS-Number: -

EINECS / ELINCS / NLP: Polymer

Nature of Hazard: Xi / R phrase(s): 36/38

Classification according to EC regulation 1272/2008 (CLP):

Eye Irrit. 2; H319 / Skin Irrit. 2; H315

Substance 3

Polyamide: 10 % - 25 %

CAS-Number: -

EINECS / ELINCS / NLP: Polymer

Nature of Hazard: Xi / R phrase(s): 38 - 41 - 43 Classification according to EC regulation 1272/2008 (CLP): Eye Dam. 1; H318 / Skin Irrit. 2; H315 / Skin Sens. 1;

H317

Substance 5

m-phenylenebis(methylamine): 2,5 % - 10 %

CAS-Number: 1477-55-0

EINECS / ELINCS / NLP: 216-032-5

REACH registration No.: 01-2119480150-50-xxxx Nature of Hazard: C / R phrase(s): 20/22 - 34 - 43 - 52/53 Classification according to EC regulation 1272/2008

(CLP):

Acute Tox. 3; H331 / Acute Tox. 4; H302 / Skin Corr. 1B; H314 / Skin Sens. 1; H317 / Aquatic Chronic 3; H412

Substance 7

2,4,6-tris(Dimethylaminomethyl)phenol: 2,5 % - 10 %

CAS-Number: 90-72-2 EU-number: 603-069-00-0

EINECS / ELINCS / NLP: 202-013-9

Nature of Hazard: Xn / R phrase(s): 22 - 36/38 Classification according to EC regulation 1272/2008 (CLP): Acute Tox. 4; H302 / Eye Irrit. 2; H319 / Skin Irrit. 2;

H315

Additional information

Full text of R-, H- and EUH-phrases: see section 16.

Substance 2

Benzyl alcohol: 10 % - 25 %

CAS-Number: 100-51-6 EU-number: 603-057-00-5

EINECS / ELINCS / NLP: 202-859-9

Nature of Hazard: Xn / R phrase(s): 20/22

Classification according to EC regulation 1272/2008 (CLP):

Acute Tox. 4; H302 / Acute Tox. 4; H332

Substance 4

4-tert-butylphenol: 2,5 % - 10 %

CAS-Number: 98-54-4

EINECS / ELINCS / NLP: 202-679-0

REACH registration No.: 01-2119489419-21-xxxx Nature of Hazard: Xn - N / R phrase(s): 37/38 - 41 -51/53 - 62 Classification according to EC regulation

1272/2008 (CLP):

Aquatic Chronic 2; H411 / Eye Dam. 1; H318 / Repr. 2;

H361 / STOT SE 3; H335 / Skin Irrit. 2; H315

Substance 6

3-Dimethyl-amino-propylamine: 2,5 % - 10 %

CAS-Number: 109-55-7
EU-number: 612-061-00-6
EINECS / ELINCS / NUR: 203-680

EINECS / ELINCS / NLP: 203-680-9

REACH registration No.: 01-2119486842-27-xxxx Nature of Hazard: C / R phrase(s): 10 - 20/21/22 - 34 - 43 Classification according to EC regulation 1272/2008

(CLP):

Acute Tox. 3; H311 / Acute Tox. 3; H331 / Acute Tox. 4; H302 / Flam. Liq. 3; H226 / Skin Corr. 1B; H314 / Skin

Sens. 1; H317

Substance 8

2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine: 1 % - 2,5

%

CAS-Number: 25513-64-8

EINECS / ELINCS / NLP: 247-063-2

REACH registration No.: 01-2119560598-25-xxxx

Nature of Hazard: C $\,/\,$ R phrase(s): 22 - 34 - 43 - 52/53 Classification according to EC regulation 1272/2008 (CLP): Acute Tox. 4; H302 $\,/\,$ Aquatic Chronic 3; H412 $\,/\,$ Skin

Corr. 1C; H314 / Skin Sens. 1; H317

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Take off immediately all contaminated clothing. If victim is at risk of losing consciousness, position and transport on their side. Seek medical assistance when anyone has symptoms apparently due to inhalation, swallowing or contact with skin or eyes. First aider: Pay attention to self-protection!

After inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing becomes irregular or ceases, apply mouth-to-mouth resuscitation or artificial respiration immediately, where required supply oxygen. Consult physician.

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In case of skin contact

After contact with skin, wash immediately with plenty of water. Take off immediately all contaminated clothing. Seek medical treatment in case of troubles. Seek medical attention if

irritation persists.

After eye contact

Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Seek the attention of an ophthalmologist immediately. Protect uninjured eye. Remove

contact lenses, if present and easy to do. Continue rinsing.

After swallowing

If swallowed, do not induce vomiting: seek medical advice immediately and show this container

or label. Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

skin corrosion/irritation serious eye damage/eye irritation

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

extinguishing powder, carbon dioxide alcohol resistant foam water fog water

Extinguishing media which must not be used for safety reasons

strong water jet

5.2 Special hazards arising from the substance or mixture

In case of fire may be liberated: carbon monoxide and carbon dioxide hydrochloric Hazardous vapours may form during fires.

5.3 Advice for firefighters

Special protective equipment for firefighters

Wear suitable protective clothing. Wear a self-contained breathing apparatus and chemical

protective clothing.

Additional information

Do not allow water used to extinguish fire to enter drains, ground or waterways. Treat runoff

as hazardous.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep away from sources of ignition. - No smoking. Avoid contact with skin and eyes. In case of insufficient ventilation, wear suitable respiratory equipment. Wear suitable protective clothing. Provide fresh air. Keep away from unprotected people. Remove persons not involved

upwind.

6.2 environmental precautions

Do not allow to enter into ground-water, surface water or drains. If necessary notify

appropriate authorities.

6.3 Methods and material for containment and cleaning up

In case of greater quantities: Collect mechanically (use only explosion-proof equipment when pumping out). Absorb leftover product with non-flammable liquid-binding material (e.g. earth, sand, vermiculite or ground sand stone) and place in closed containers for disposal. Dam

spills and pump to remove.

Additional information

6.4 Reference to other sections

Personal protection equipment: see section 8

SECTION 7: Handling and storage

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7.1 Precautions for safe handling

Advices on safe handling

Keep away from sources of ignition. Avoid contact with skin, eyes, and clothing. Wash hands before breaks and after work. Handle in accordance with good industrial hygiene and safety practice. Provide good ventilation and/or an exhaust system in the work area. Keep all containers, equipment and working place clean.

Precautions against fire and explosion

Keep away from sources of ignition. - No smoking.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers

Keep container tightly closed in a cool, well-ventilated place.

hints on joint storage

Avoid contact with strong acids, strong bases and strong oxidizing agents.

Storage class

VCI8

7.3 Specific end use(s)

n.a.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Benzyl alcohol: CAS 100-51-6 DNEL: TWA 7,000 mg/m3 PNEC: TWA 10,000 mg/m3 4-tert-butylphenol: CAS 98-54-4

MK: 0,500 mg/m3 MK: 0,079 ppm

8.2 Exposure controls

Appropriate engineering controls

Provide good ventilation and/or an exhaust system in the work area. Avoid the formation of

aerosol.

Individual protection measures, such as personal protective equipment

General protection and hygiene measures

Keep away from food and drink. When using do not eat, drink or smoke. Avoid contact with skin

and eyes. Wash hands before breaks and after work. tightly sealed safety glasses according to DIN EN 166

Skin protection

Eye/face protection

Hand protection Protective gloves Qualified materials: Fluororubber (Viton) butyl caoutchouc (butyl rubber)

PVC (Polyvinyl chloride) Tested protective gloves must be worn according to DIN EN 374 Observe glove manufacturer's instructions concerning penetrability and breakthrough time. Wearing time with permanent contact: >480 min Wearing time with occasional contact (splashes): >60 min The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous

substances.

Other Wear suitable protective clothing and shoes.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment. For short exposures

or in case of accident: Filter device, type A (= against vapours of organic compounds).

Environmental exposure controls

SECTION 9: Physical and chemical properties

9.1 information on basic physical and chemical properties

Physical state : liquid
Colour : yellowish

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Odour : characteristic, amine-like

Odour threshold : No data available

pH value (20°C) : 8,5 - 11

melting point / melting range : No data available

boiling temperature / boiling range : > 200 °C

Flash point / flash point range : > 150 °C

Evaporation rate : No data available

Flammability (solid, gas) : Not applicable

Upper/lower flammability

or explosive limits lower : No data available

upper : No data available

Vapour pressure (50 °C) : < 5 hPa

Vapour density : No data available

Density : 1,01 g/ml

Solubility in water : slightly miscible

Partition coefficient n-octanol /water : No data available

Autoflammability : No data available

Decomposition temperature : No data available

Viscosity (dynamic at 25 °C) : 800 mPa.s

Explosive properties : Product is not explosive. **Oxidising properties** : No information available.

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Product is stable under normal storage conditions.

10.2 Chemical stability

Product is stable under normal storage conditions.

10.3 Possibility of hazardous reactions

Product is stable under normal storage conditions. violent reaction with acids, strong

oxidizing agents

10.4 Conditions to avoid

Keep away from heat. Keep away from sources of ignition.

10.5 Incompatible materials

Strong oxidizing agents strong acids Amines alkalis

10.6 Hazardous decomposition products

May form dangerous gases and vapours in case of fire. In case of fire may be liberated: carbon monoxide and carbon dioxide nitrogen oxides (NOx)

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

After inhalation: Harmful by inhalation. LC50 inhalative: Information on ingredients: benzyl alcohol: 4.178

mg/l, m-phenylenebis(methylamine):2,4 mg/l,(Rat)

After swallowing: Harmful if swallowed. LD50 oral: Information on ingredients: benzyl alcohol: 1230 mg/kg,

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m-phenylenebis(methylamine): 930 mg/kg, 2,4,6-tris(dimethylaminomethyl)phenol: 1200 mg/kg, trimethyl-hexamethylene diamine: 910 mg/kg, 3-Dimethylamino-propylamine: 1640 mg/kg,(Rat)

In case of skin contact : LD50 dermal: Information on ingredients: m-phenylenebis(methylamine):~2000 mg/kg,(Rabbit)

skin corrosion/irritation : corrosive

After eye contact : Risk of serious damage to eyes.

Sensibilisation: Preventive skin protection.

May cause sensitization by skin contact.

Sensibilisation: Respiratory system :

Not known to cause sensitization.

Specific target organ toxicity: No information available.Repeated dose toxicity: No information available.

CMR:

Carc.Cat. : - Muta.Cat. : -

Repr.Cat. : Repr. Cat. 3

Further details: May cause sensitization by skin contact.

Prolonged/repetitive skin contact may cause skin defattening or dermatitis.

3-Dimethylamino-propylamine: 53.5 mg/l (72h) (Scenedesmus subspicatus),

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Fish toxicity: LC50 Information on ingredients: m-phenylenebis(methylamine): 100 mg/l (96h) (Oncorhynchus mykiss), 4-tert-butylphenol: 1-10 mg/l (96h) (Oncorhynchus mykiss), trimethyl-hexamethylene diamine: 174 mg/l (48 h) (Leuciscus idus melanotus), 3-Dimethylamino-propylamine: 122 mg/l (96h) (Leuciscus idus), Daphnia toxicity: EC50 Information on ingredients: m-phenylenebis(methylamine): 16 mg/l (48h) (Daphnia magna), 4-tert-butylphenol: 1-10 mg/l (48h) (Daphnia magna), trimethyl-hexamethylene diamine: 31.5 mg/l (24 h) (Daphnia magna), 3-Dimethylamino-propylamine: 59.5 mg/l (48h) (Daphnia magna), Algae toxicity: EC50 Information on ingredients: m-phenylenebis(methylamine): 12 mg/l (72h) (Scenedesmus subspicatus), 4-tert-butylphenol:10-100 mg/l (72h) (Selenastrum capricornutum), trimethyl-hexamethylene diamine: 29.5 mg/l (72 h) (Scenedesmus subspicatus),

General information :

12.2 Persistence and degradability

General information: Product is not readily biodegradable.

Oxygen demand : No data available

12.3 Bioaccumulative potential

Bioconcentration factor (BCF): Product: No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

not applicable

12.6 Other adverse effects

General information: Do not allow to penetrate into soil, waterbodies or drains.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Recommendation: Incinerate as hazardous waste according to applicable local, state, and federal regulations. Do not

dispose of with household waste.

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Contaminated packaging

Recommendation: Dispose of waste according to applicable legislation. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

14.1 UN number

ADN/ADNR

IATA

 ADR/RID
 2735

 ADN/ADNR
 2735

 IMDG
 2735

 IATA
 2735

14.2 UN proper shipping name danger releasing substance

ADR/RID POLYAMINES, LIQUID, CORROSIVE, N.O.S.

(polyaminoamid. alpha,alpha diamino-m-xylene.)

POLYAMINES, LIQUID, CORROSIVE, N.O.S.

(polyaminoamid. alpha,alpha diamino-m-xylene.)

IMDG POLYAMINES, LIQUID, CORROSIVE, N.O.S.

(Polyaminoamid, m-phenylenebis(methylamine)) POLYAMINES, LIQUID, CORROSIVE, N.O.S.

(Polyaminoamid, m-phenylenebis(methylamine))

	ADR/RID	ADN/ADNR	IMDG	IATA
14.3 Transport hazard class(es)	8	8	8	8
14.4 Packing group	ш	III	III	III
14.5 Environmental hazards	No	No	No	No
14.6 Special precautions for user	Attention: caustic substance(s)	Attention: caustic substance(s)	Attention: caustic substance(s)	Attention: caustic substance(s)
Further regulations, limitations and legal requirements	Code: ADR/RID C7 Kemmler-number 80 tunnel restriction (E)		EmS F-A, S-B Stowage and segregation Category A. "Separated from" acids.	

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

Not applicable

SECTION 15: Regulatory information

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

Storage class VCI 8

Contents of VOC [g/L] max. 250 g/l

Water Hazard Class 2

Further regulations, limitations and legal requirements

Observe employment restrictions concerning young persons. Observe employment

according to Regulation (EC) No. 1907/2006 (REACH)



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restrictions for expectant or nursing mothers. Observe employment restrictions for women of child-bearing age.

15.2 Chemical Safety Assessment

A chemical safety assessment has not been carried out for the mixture

SECTION 16: Other information

R phrase(s) R10 Flammable.

R20 Harmful by inhalation.

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R20/22 Harmful by inhalation and if swallowed.

R22 Harmful if swallowed.

R34 Causes burns.

R36/38 Irritating to eyes and skin.

R37/38 Irritating to respiratory system and skin.

R38 Irritating to skin.

R41 Risk of serious damage to eyes.

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.

R62 Possible risk of impaired fertility.

Hazard statements (CLP)

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage..

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H361 Suspected of damaging fertility or the unborn child (state specific effect if known)

(state route of exposure if it is conclusively proven that no other routes of exposure cause

the hazard).

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

H361F Suspected of damaging fertility.

EUH071 Corrosive to the respiratory tract.

H311 Toxic in contact with skin.

Reason of change

General revision

Further remarks

These data based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Naturally, safety is influenced by the circumstances of usage, which are beyond our control.