

ipox EH 2041

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1. Identification of the substance/mixture and of the company/undertaking

Product identifier

Trade name ipox EH 2041

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

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

Details of the supplier of the safety data sheet

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

Emergency telephone number Tel.: +36 1 421 7040

2. Hazards identification

Classification of the substance or mixture

Classification of the mixture in accordance with Directive 1999/45/EC (DPD)

Danger : C corrosive

Risk phrases : R20/21/22 Harmful by inhalation, in contact with skin 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.

Label elements

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

Indication(s) of danger : C corrosive



Risk phrases : R20/21/22 Harmful by inhalation, in contact with skin 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.

Safety advices : S23 Do not breathe vapours.
S28 After contact with skin, wash immediately with plenty of water.
S35 This material and its container must be disposed of in a safe way.
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).
S51 Use only in well-ventilated areas.
S61 Avoid release to the environment. Refer to special instructions / safety data sheet.

Other hazards :

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3. Composition/ Information on ingredients

Characterisation : mixture

Hazardous ingredients

Substance

Benzyl alcohol: 25 % - 50 %
CAS-number: 100-51-6
Index-number: 603-057-00-5
EC-number: 202-859-9
REACH registration-number: 01-2119492630-38-xxxx
Nature of Hazard: Xn / R phrase(s): 20/22
Acute Tox. 4; H332, Acute Tox. 4; H302

Substance 3

polyamine adduct: 10 % - 25 %
CAS-number: 38294-64-3
EC-number: 500-101-4
Nature of Hazard: C / R phrase(s): 21/22 - 34 - 43 - 52/53
Acute Tox. 4; H302, Acute Tox. 4; H312, Skin Corr. 1B; H314,
Skin Sens. 1; H317, Aquatic Chronic 3; H412

Substance 2

3-Aminomethyl-3,5,5-trimethylcyclohexylamine: 10 % - 25 %
CAS-number: 2855-13-2
Index-number: 612-067-00-9
EC-number: 220-666-8
REACH registration-number: 01-2119514687-32-xxxx
Nature of Hazard: C / R phrase(s): 21/22 - 34 - 43 - 52/53
Acute Tox. 4; H302, Acute Tox. 4; H312, Skin Corr. 1B; H314,
Skin Sens. 1; H317, Aquatic Chronic 3; H412

Substance 4

m-phenylenebis(methylamine): 10 % - 25 %
CAS-number: 1477-55-0
EC-number: 216-032-5
REACH registration-number: 01-2119480150-50-xxxx
Nature of Hazard: C / R phrase(s): 20/22 - 34 - 43 - 52/53
Acute Tox. 3; H331, Acute Tox. 4; H302, EUH071,
Skin Corr. 1B; H314, Skin Sens. 1; H317, Aquatic Chronic 3;
H412

Additional informations

Full text of R-phrases: see section 16.

4. First-aid measures

Description of first aid measures

General informations :

Take off immediately all contaminated clothing. If victim is at risk of losing consciousness, position and transport on their side. Do not allow victim to become chilled. Keep victim warm.

In case of inhalation :

Move victim to fresh air. If breathing becomes irregular or ceases, apply mouth-to-mouth resuscitation or artificial respiration immediately, where required supply oxygen. Seek medical attention if problems persist.

In case of skin contact :

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water. Seek medical attention if irritation persists.

In case of eye contact :

Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

In case of ingestion :

If you feel unwell, seek medical advice (show the label where possible).

Most important symptoms and effects, both acute and delayed

Indication of any immediate medical attention and special treatment needed

5. Firefighting measures

Extinguishing media

suitable :

extinguishing powder carbon dioxide alcohol resistant foam water fog water

unsuitable :

strong water jet

Special hazards arising from the substance or mixture

Hazardous vapours may form during fires. In case of fire may be liberated: carbon monoxide and carbon dioxide nitrogen oxides (NOx)

Advice for firefighters

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

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep away from sources of ignition - No smoking. In case of insufficient ventilation,

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wear suitable respiratory equipment. Provide fresh air. Avoid contact with skin and eyes. Keep away from unprotected people. Remove persons not involved upwind. Wear personal protection equipment.

Environmental precautions

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

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.

7. Handling and storage

Precautions for safe handling

Keep away from sources of ignition. When using do not eat, drink or smoke. 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. Keep away from sources of ignition - No smoking.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a cool, well-ventilated place. Keep away from food, drink and animal feeding stuffs.

Specific end use(s)

8. Exposure controls / Personal protection

Control parameters

Exposure controls

Appropriate engineering controls

Individual protection measures, such as personal protective equipment

Eye/face protection : tightly sealed safety glasses
Skin protection, hand : Protective gloves Observe glove manufacturer's instructions concerning penetrability and breakthrough time. Qualified materials: Fluororubber (Viton) butyl caoutchouc (butyl rubber)
other : Wear suitable protective clothing.
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

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state : liquid
Colour: colourless or yellowish
Odour: characteristic amine-like
pH (in delivered state) : 8,5- 11
Initial boiling point and boiling range : > 200 °C
Flash point : > 150 °C
Explosive properties : Product is not explosive.
Vapour pressure at 50 °C : < 5 hPa
Density : 1,04 g/ml

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Solubility in water : slightly miscible

Partition coefficient (n-octanol/water)(logP) :

Viscosity (dynamic at 25 °C) : 170 mPa.s

Other Information

10. Stability and reactivity

Reactivity

Chemical stability : Product is stable under normal storage conditions.

Conditions to avoid : Keep away from heat.

Incompatible materials : Strong oxidizing agents strong acids amines oxidizing agents alkalis

Hazardous decomposition products : Hazardous vapours may form during fires. 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)
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11. Toxicological information

Information on toxicological effects

Acute inhalation toxicity : Harmful by inhalation. LC50 inhalative: Information on ingredients: benzyl alcohol: 4.178 mg/l, m-phenylenebis(methylamine) :2,4 mg/l,(Rat)

Acute oral toxicity : : Harmful if swallowed. LD50 oral: Information on ingredients: 3-aminomethyl-3,5,5-trimethylcyclohexylamine: 1030 mg/kg, benzyl alcohol: 1230 mg/kg, m-phenylenebis(methylamine): 930 mg/kg,(Rat)

Acute dermal toxicity : : May be harmful in contact with skin.

Skin corrosion/irritation : corrosive

Serious eye damage/irritation : Risk of serious damage to eyes.

Respiratory or skin sensitisation : May cause sensitization by skin contact.

STOT-single exposure :

STOT-repeated exposure :

Aspiration hazard :

CMR assessment : -

Other information

12. Ecological information

Toxicity : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Fish toxicity: LC50 Information on ingredients: 3-aminomethyl-3,5,5-trimethylcyclohexylamine: 110 mg/l (96h) (Leuciscus idus), m-phenylenebis(methylamine): 100 mg/l (96h) (Oncorhynchus mykiss), Daphnia toxicity: EC50 Information on ingredients: 3-aminomethyl-3,5,5-trimethylcyclohexylamine: 23 mg/l (48h) (Daphnia magna), m-phenylenebis(methylamine): 16 mg/l (48h) (Daphnia magna), Algae toxicity: EC50 Information on ingredients: 3-aminomethyl-3,5,5-trimethylcyclohexylamine: 50 mg/l (72h) (Scenedesmus subspicatus), m-phenylenebis(methylamine): 12 mg/l (72h) (Scenedesmus subspicatus),
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Persistence and degradability

Product is not easily biodegradable.

Bioaccumulative potential

Mobility in soil

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Results of PBT and vPvB assessment

Other adverse effects Do not allow to penetrate into soil, waterbodies or drains.

13. Disposal considerations

Waste treatment methods

Product Dispose of waste according to applicable legislation. Incinerate as hazardous waste according to applicable local, state, and federal regulations. Do not dispose of with household waste.

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

14. Transport information

Land transport

UN Number: 2735	ADR/RID Class: 8	Classification code: C7	Packaging group: III
Hazard label: 8	Hazard number: 80		Tunnel restriction: (E)
Proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. isophoron diamine. alpha,alpha diamino-m-xylene.			

Sea transport

UN Number: 2735	IMDG Class: 8	Packaging group: III	Tank instructions IMO: IBC03
EmS: F-A, S-B	Stowage and segregation:		
Proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S.			

Air transport

UN Number: 2735	ICAO/IATA Class: 8	Packaging group: III
Proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. ISOPHORONE DIAMINE, M-XYLYLENE DIAMINE		

15. Regulatory information

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

National regulations

Storage class : VCI 8A

Contents of VOC : max. 440 g/l

Further regulations :

Benzyl alcohol:
DNEL: TWA 7,00 mg/m³
PNEC: TWA 10,00 mg/m³

Water hazard class : 2

Chemical safety assessment

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

16. Other information

Relevant risk phrases

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

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Relevant risk phrases R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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Relevant changes Changes in labelling

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.