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

1.1 Product identifier

ipox EH 2471W
Unique Formula Identifier : 69ST-T1EQ-W005-A6RG

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

Relevant identified uses

Building and construction work Uses in coatings Curing agent for epoxy systems.

1.3 Details of the supplier of the safety data sheet

Supplier

ipox chemicals Kft.
Street : Helsinki út. 114
Postal code/City : 1238 BUDAPEST
Telephone : +3614217040
Telefax : +3614217041
Information contact : sds@ipox-chemicals.hu

1.4 Emergency telephone number

+3614217042 Only available during office hours: from 8am to 5pm (in German and English)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Eye Dam. 1 ; H318 - Serious eye damage/eye irritation : Category 1 ; Causes serious eye damage.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms

Corrosion (GHS05)

Signal word

Danger

Hazard components for labelling

POLYMER EPOXY RESIN-ADDUCT ; CAS No. : 260549-92-6

Hazard statements

H318	Causes serious eye damage.

Precautionary statements

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P310	Immediately call a POISON CENTER/doctor.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3 Other hazards

This mixture does not contain any substances classified as PBT/vPvB.

Adverse human health effects and symptoms

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.
Contains the following substances of very high concern (SVHC) which are included in the Candidate List according to

Article 59 of REACH:
This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

Adverse environmental effects

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

Contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH:
This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

POLYMER EPOXY RESIN-ADDUCT ; EC No. : Polymer; CAS No. : 260549-92-6

Weight fraction :	≥ 50 - < 75 %
Classification 1272/2008 [CLP] :	Eye Dam. 1 ; H318

Additional information

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove contaminated, saturated clothing immediately. Wash thoroughly the body (shower or bath). Remove affected person from the danger area and lay down. Transport affected person in lying position, in case of shortness of breath in half-sitting position. Put victim at rest, cover with a blanket and keep warm. Do not leave affected person unattended.

Following inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.

In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. In case of skin reactions, consult a physician. In case of skin irritation, consult a physician.

After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing. Protect uninjured eye.

Following ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting.

Self-protection of the first aider

First aider: Pay attention to self-protection!

4.2 Most important symptoms and effects, both acute and delayed

Causes serious eye damage.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO2) Extinguishing powder alcohol resistant foam Water spray jet Water

Unsuitable extinguishing media

Strong water jet

5.2 Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO2) Nitrogen oxides (NOx)

5.3 Advice for firefighters

Special protective equipment for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Move undamaged containers from immediate hazard area if it can be done safely. Use water spray jet to protect personnel and to cool endangered containers. Do not allow run-off from fire-fighting to enter drains or water courses. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Use personal protection equipment. See protective measures under point 7 and 8.

For emergency responders

Use personal protection equipment. Provide adequate ventilation. Remove persons to safety. See protective measures under point 7 and 8.

6.2 Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

6.3 Methods and material for containment and cleaning up

For containment

Cover drains. Stop leak if safe to do so. Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Take up mechanically, placing in appropriate containers for disposal.

For cleaning up

Collect in closed and suitable containers for disposal. Clean contaminated articles and floor according to the environmental legislation.

6.4 Reference to other sections

Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

It is recommended to design all work processes always so that the following is excluded: Inhalation of vapours or spray/mists Skin contact Eye contact
Wear personal protection equipment (refer to section 8). If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

Measures to prevent fire

Keep away from sources of ignition - No smoking. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

Environmental precautions

Shafts and sewers must be protected from entry of the product. Provide for retaining containers, e.g. floor pan without outflow.

Advices on general occupational hygiene

Working places should be designed to allow cleaning at any time. Floors, walls and other surfaces in the hazard area

must be cleaned regularly. After use replace the closing cap immediately. Wash hands and face before breaks and after work and take a shower if necessary. Wash hands before eating, drinking or smoking. Remove contaminated, saturated clothing immediately. Wash contaminated clothing prior to re-use.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Only use containers specifically approved for the substance/product. Protect containers against damage. Keep container tightly closed and in a well-ventilated place.

Packaging materials

Unsuitable container/equipment material: Copper Alloy, containing copper

Hints on joint storage

Storage class (TRGS 510) : 12

Keep away from

Keep away from food, drink and animal feedingstuffs.

7.3 Specific end use(s)

Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

To date, no national critical limit values exist.

8.2 Exposure controls

Appropriate engineering controls

Provide for sufficient ventilation. Technical measures and the application of suitable work processes have priority over personal protection equipment.

Personal protection equipment

Eye/face protection

Suitable eye protection

Eye glasses with side protection
DIN-/EN-Norms : EN 166
Provide eye shower and label its location conspicuously

Skin protection

Hand protection

Suitable gloves type : Gloves with long cuffs

Suitable material : NBR (Nitrile rubber) PVC (polyvinyl chloride) CR (polychloroprene, chloroprene rubber) Butyl caoutchouc (butyl rubber) FKM (fluoro rubber)

Wearing time with occasional contact (splashes) : > 10 min

Wearing time with permanent contact : > 480 min

Remark : When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.
Breakthrough times and swelling properties of the material must be taken into consideration.
Tested protective gloves must be worn
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.
For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.
DIN-/EN-Norms : EN ISO 374

Body protection

Suitable protective clothing

Remark :
DIN-/EN-Norms
Protective clothing. : EN 14605
footwear : EN ISO 20345

Breakthrough times and swelling properties of the material must be taken into consideration.
Only wear fitting, comfortable and clean protective clothing.

Respiratory protection

Usually no personal respirative protection necessary. Respiratory protection necessary at: exceeding exposure limit values insufficient ventilation insufficient exhaust

Suitable respiratory protection apparatus

Combination filtering device Filter type: A

Remark

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used. Use only respiratory protection equipment with CE-symbol including four digit test number.

General information

When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. Wash contaminated clothing immediately. Wash hands before breaks and after work. Emergency shower installed

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : emulsion

Colour : light yellow

Odour : Amines

Safety characteristics

Freezing point :	(1013 hPa)		No data available		
Initial boiling point and boiling range :	(1013 hPa)	>	100	°C	
Decomposition temperature :	(1013 hPa)		No data available		
Flash point :			not applicable		
Auto-ignition temperature :			No data available		
Lower explosion limit :			No data available		
Upper explosion limit :			No data available		
Vapour pressure :	(50 °C)		No data available		
Density :	(25 °C)		1,09	g/cm³	
Relative density :	(20 °C)		No data available		
Water solubility :	(20 °C)		No data available		
pH :			No data available		
log P O/W :			No data available		
Flow time :	(20 °C)		No data available		DIN-cup 4 mm
Viscosity :	(25 °C)		5000 - 10000	mPa*s	
Odour threshold :			No data available		
Relative vapour density :	(20 °C)		No data available		
VOC-value :			0	g/l	
Flammable solids :	Not applicable.				
Flammable gases :	Not applicable.				

9.2 Other information

emulsifiable : Water

Other safety characteristics

Evaporation rate

No data available

Miscibility

No data available

Conductivity

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity
The product is stable under storage at normal ambient temperatures.

10.2 Chemical stability
The substance is chemically stable under recommended conditions of storage, use and temperature.

10.3 Possibility of hazardous reactions
Violent reaction with: Oxidising agent, strong. Acid

10.4 Conditions to avoid
Keep away from heat.

10.5 Incompatible materials
Oxidising agent, strong. Strong acid

10.6 Hazardous decomposition products
Does not decompose when used for intended uses.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity
No information available.

Corrosion
Causes serious eye damage.

Skin corrosion/irritation
Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation
Causes serious eye damage.

Respiratory or skin sensitisation

Skin sensitisation
Based on available data, the classification criteria are not met.

Sensitisation to the respiratory tract
Based on available data, the classification criteria are not met.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Overall assessment on CMR properties
Based on available data, the classification criteria are not met.

STOT-single exposure
Based on available data, the classification criteria are not met.

STOT-repeated exposure
Based on available data, the classification criteria are not met.

Aspiration hazard
Based on available data, the classification criteria are not met.

11.2 Information on other hazards

Endocrine disrupting properties
Contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH:
This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

SECTION 12: Ecological information

12.1 Toxicity
No information available.

12.2 Persistence and degradability
No information available.

12.3 Bioaccumulative potential
No information available.

12.4 Mobility in soil
No information available.

12.5 Results of PBT and vPvB assessment
This mixture does not contain any substances classified as PBT/vPvB.
The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Endocrine disrupting properties
Contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH:
This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7 Other adverse effects
No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Dispose of waste according to applicable legislation. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.
Collect the waste separately. Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

14.1 UN number or ID number
No dangerous good in sense of these transport regulations.

14.2 UN proper shipping name
No dangerous good in sense of these transport regulations.

14.3 Transport hazard class(es)
No dangerous good in sense of these transport regulations.

14.4 Packing group
No dangerous good in sense of these transport regulations.

14.5 Environmental hazards
No dangerous good in sense of these transport regulations.

14.6 Special precautions for user
None

14.7 Maritime transport in bulk according to IMO instruments
not applicable

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
EU legislation
Authorisations and/or restrictions on use
Authorisations
not applicable

Restrictions on use

Regulation (EC) No. 1907/2006 (REACH), Annex XVII (restrictions)

Use restriction according to REACH annex XVII, no. : 3, 75

Other regulations (EU)

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]

This product is not classified according to Directive 2012/18/EU.

Labelling for contents according to regulation (EC) No. 648/2004

not applicable

National regulations

Water hazard class

Classification according to AwSV - Class : 2 (Obviously hazardous to water)

Additional information

Substance/product listed in the following inventories

- AICS
- KECI
- IECSC
- NZIoC

15.2 Chemical Safety Assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

16.1 Indication of changes

02. Other hazards · 11. Information on other hazards · 12. Endocrine disrupting properties

16.2 Abbreviations and acronyms

ADN : European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures) ADR : European agreement concerning the international carriage of dangerous goods by road (Accord européen relatif transport des merchandises dangereuses par route) AICS : Australian, Inventory of Chemical Substances ATE : Acute Toxicity Estimation BCF : Bio-concentration factor BOD : Biochemical oxygen demand Bw : Body weight CAS : Chemical Abstract Service CLP : Classification, labelling and Packaging CMR : Substances classified as Carcinogenic, Mutagenic or toxic for Reproduction CSA : Chemical Safety Assessment CSR : Chemical Safety Report DIN : German Standards Institute / German industrial norm (Deutsches Institut für Normung / Deutsche Industrienorm) DNEL : Derived No Effect Level DSL : Canada, Domestic Substances List EC50 : Effective Concentration 50% EINECS : European Inventory of Existing Commercial Chemical Substances ELINCS : European List of Notified Chemical Substances IARC : International Agency for Research on Cancer IATA : International Air Transport Association IBC : Intermediate Bulk Container IECSC : Inventory of Existing Chemical Substances in China IMDG Code : International Maritime Dangerous Goods Code IMO : International Maritime Organization ISO : International Standards Organisation IUCLID : International Uniform Chemical Information Database IUPAC : International Union for Pure Applied Chemistry KECI : Korea, Existing Chemical Inventory LC50 : Lethal Concentration 50% LD50 : Lethal Dose 50% LEV : Local exhaust ventilation LOAEL : Lowest Observed Adverse Effect Level OEL : Lowest observable effect level MAK : Treshold limit values Germany (Maximale Arbeitsplatzkonzentration - DFG) NDSL : Canada, Non-Domestic Substances List NIOSH : National Institute for Occupational Safety & Health NOAEC : No Observed Adverse Effect Concentration NOAEL : No observed adverse effect level NOEC : No Observed Effect Concentration NOEL : No Observed Effect Level NZIoC : New Zealand Inventory of Chemicals OECD : Organization for Economic Cooperation and Development OEL : Occupational Exposure Limit PBT : persistent, bioaccumulative, toxic PIC : Prior Informed Consent PICCS : Philipines Inventory of Commercial Chemical Substances PNEC : Predicted No Effect Concentration RID : Regulations concerning the international carriage of dangerous goods by rail (Règlement International concernant le transport de marchandises dangereuses par chemin de fer) QSAR : Quantitative Structure Activity Relation STP : Sewage treatment plant SVHC : Substance of Very High Concern TLV : Threshold Limit Value TSCA : Toxic Substance Control Act TWA : Time Weighted Average UVCB : Unknown or Variable Compositon, Complex Reaction Products, and Biological Materials VOC : Volatile organic

compounds vPvB : very persistent, very bioaccumulative

16.3 Key literature references and sources for data

None

16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

No information available.

16.5 Relevant H- and EUH-phrases (Number and full text)

H318 Causes serious eye damage.

16.6 Training advice

None

16.7 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.