

# SAFETY DATA SHEET

In accordance with directive 1907/2006/EC, 2020/878

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Version 3.0

Revision date: 13-05-2022

Print date: 16-9-2022

Trade name: IPE 744

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

### 1.1 Product identification:

Product name: IPE 744  
UFI: EMPH-FRGE-5127-HJWC

The transition period according to REACH regulation Article 23 has not yet expired.

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

Usage: Hardener for epoxy casting resin.  
Usage is not recommended: Not suitable for "Do-It-Yourself".  
For industrial use only.

### 1.3 Details of the supplier of the safety data sheet

Responsible distributor: ASSYST bvba / A.S.O.W. bvba  
Hellegatstraat 13a  
2590 Berlaar  
Belgium  
Tel: +32 495 50 61 14 / +32 496 83 70 27  
Website: [www.assyst.org](http://www.assyst.org) / [www.artsuppliesonweb.com](http://www.artsuppliesonweb.com)  
Email: [ao@assyst.org](mailto:ao@assyst.org) / [vera.opsommer@assyst.org](mailto:vera.opsommer@assyst.org)

### 1.4 Emergency telephone number:

For Belgium:

Call the **Poison Control Center (070 245 245 - free)**, if not available: **02 264 96 30** (normal rate) or your doctor. In life-threatening situations, always call the European emergency number **112**.

NHS 24 Direct

For help from a GP, visit your GP surgery's website, use an online service to contact your GP, or call the surgery. **For urgent medical help**, use the NHS 111 online service, or **call 111** if you are unable to get help online. **For life-threatening emergencies, call 999** for an ambulance. There is more information about getting medical help on the NHS website.

## **SECTION 2: Hazard identification**

### 2.1 Classification of the substance or mixture:

**Classification according to Directive (EC) No 1272/2008 and its amendments.**

The product is classified according to the applicable legislation.

**Classification in accordance with Regulation (EC) No 1272/2008 as amended.**

#### **Health hazards**

Warning, Acute Tox. 4, Harmful if swallowed.  
Warning, Acute Tox. 4, Harmful in contact with skin.  
Danger, Skin Corr. 1A, Causes severe skin burns and eye damage.  
Danger, Eye Dam. 1, Causes serious eye damage.  
Aquatic Chronic 2, Toxic to aquatic life with long lasting effects.

#### **Adverse physicochemical effects, effects on human health and the environment:**

No other hazards

### 2.2 Label elements:

**Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]:**



**Hazard pictograms:**

**Signal word**

Danger.

**Hazardous ingredients which must be stated on the label**

- ✓ Propylidynetrimethanol, propoxylated, reaction products with ammonia

**Indications of danger:**

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H302 + H312 Harmful if swallowed and in contact with skin.

H314 Causes severe skin burns and eye damage.

H411 Toxic to aquatic life with long lasting effects.

## Precautions

### Prevention:

P264 Wash tools thoroughly after use.

P273 Avoid release to the environment.

P280 Wear protective gloves/clothing and eye/face protection.

### Action:

P303 + P361 + P353 IF ON SKIN (or hair): Remove contaminated clothing immediately. Rinse skin with water or shower.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Call a POISON CENTER or doctor immediately.

P391 Collect spillages.

Special Provisions:

None

### Special provisions according to Annex XVII of REACH and subsequent amendments:

None

### 2.3 Other hazards:

No PBT, vPvB or endocrine disruptors present at concentration  $\geq 0.1\%$ .

### Other hazards:

No other hazards

## SECTION 3: Composition and information on ingredients

### 3.2 Mixtures:

#### Description:

Hazardous components within the meaning of the CLP regulation and related classification:

Chemical Name	CAS No. EC No. Index No. Registration number	Layout (Regulation (EC) No 1272/008)	Concentration (%)
Propylidynetrimethanol, propoxylated, reaction products with ammonia	39423-51-3 500-105-6 - 01-2119556886-20	Acute Tox. 4 H312 Acute Tox. 4 H302 Eye Dam. 1 H318 Aquatic Chronic 2 H411	$\geq 80\%$

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures:

#### In case of skin contact:

Immediately take off all contaminated clothing.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

#### In case of eye contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

#### In case of ingestion:

DO NOT induce vomiting.

Do not give anything to eat or drink.

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## **In case of inhalation:**

Remove casualty to fresh air and keep warm and at rest.

### 4.2 Most important symptoms and effects, both acute and delayed:

None.

### 4.3 Indication of any immediate medical attention and special treatment needed:

In case of accident or feeling unwell, seek medical advice immediately (show the instructions for use or the Safety Data Sheet where possible).

## **Treatment:**

None.

## **SECTION 5: Fire-fighting measures**

### 5.1 Extinguishing media:

#### **Suitable extinguishing media:**

CO2 or dry chemical fire extinguisher.

#### **Extinguishing media which must not be used for safety reasons:**

None in particular.

### 5.2 Special hazards arising from the substance or mixture

Do not inhale explosion gases or combustion gases.

Burning produces heavy smoke.

### 5.3 Advice for firefighters:

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately.

This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

## **SECTION 6: Accidental release measures for the substance or mixture**

### 6.1 Personal precautions, protective equipment and emergency procedures:

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

### 6.2 Environmental precautions:

Do not allow to enter into soil/subsoil.

Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand.

### 6.3 Methods and material for containment and cleaning up

Wash with plenty of water.

### 6.4 Reference to other sections:

See also section 8 and 13.

## **SECTION 7: Handling and storage:**

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

See also section 8 for recommended protective equipment.

#### **Advice on general occupational hygiene:**

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

### 7.2 Conditions for safe storage, including any incompatibilities

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Keep in a cool place and protected from humidity in original packaging closed.

Avoid contact with skin, eyes and clothing.

Keep away from food, drink and feed.

**Incompatible materials:**

None in particular.

**Instructions as regards storage premises:**

Adequately ventilated premises.

**7.3 Specific end use:**

None in particular.

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters:**

No occupational exposure limit available

**DNEL exposure limits**

Substance name	End use	Route of exposure	Possible health condition	Value
Propylidynetrimethanol, propoxylated, reaction products with ammonia - CAS: 39423-51-3	Worker Professional	Human Inhalation	Long Term, systemic effects	14.1 mg/m3
	Worker Professional	Human Dermal	Long Term, systemic effects	1.6 07

**PNEC exposure limits**

Substance name	Environmental compartment	Value
Propylidynetrimethanol, propoxylated, reaction products with ammonia - CAS: 39423-51-3	Fresh water	0.004 mg/l
	Freshwater sediments	0.022 mg/kg
	Marine water	0 mg/l
	Marine water sediments	0.002 mg/kg
	08	0.002 mg/kg

**8.2 Exposure controls:**

**Eye protection:**

Wear protective goggles (ref. Standard EN 166).

**Protection for the skin:**

Safety shoes.

Wear work clothes with long sleeves and safety footwear for professional use of category I (REF. Dir. 89/686/EEC and EN 344).

**Protection for hands:**

Protect your hands with gloves category I (ref. Directive 89/686/EEC and standard EN 374).

**Respiratory protection:**

Use adequate protective respiratory equipment. (Ref. Dir. 89/686/EEC, as amended – UNI PROTECTED / 1998 - UNI EN 529/2006).

**Thermal hazards:**

None.

**Controlling environmental exposure:**

Prevent from entering sewers, basements or any place where its accumulation can be dangerous.

**Appropriate technical measures:**

None.

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties:**

Physical state:	Liquid
Colour:	Colourless
Odour:	Ammoniacal

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Melting point/freezing point:	-19°C
Boiling point or initial boiling point and boiling range:	> 100°C
Flammability:	> 100°C
Lower and upper explosion limit:	Not Relevant
Flash point:	> 200°C
Auto-ignition temperature:	> 300°C
Decomposition temperature:	> 200°C
pH:	12
Kinematic viscosity:	Not Relevant
Solubility in water:	N.A.
Solubility in oil:	Not Relevant
Partition coefficient n-octanol/water (log value):	Not Relevant
Vapour pressure:	6,8hPa (20°C)
Density and/or relative density:	0.96 g/ml (25°C)
Relative vapour density:	1
Particle characteristics:	
Particle size:	Not Relevant
<b>9.2 Other information</b>	
Viscosity:	108 cps (25°C)

## **SECTION 10: Stability and reactivity**

### 10.1 Reactivity:

There are no particular risks of reaction with other substances under normal conditions of use.

### 10.2 Chemical Stability:

The product is stable under normal use and storage conditions.

### 10.3 Potentially hazardous reactions:

None.

### 10.4 Conditions to avoid

Stable under normal conditions.

### 10.5 Chemically Interacting Materials:

None in particular.

### 10.6 Hazardous decomposition products:

None.

## **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects:

#### **Toxicological information of the product**

N/A

If not otherwise specified, the information required by Regulation (EU) 2015/830 below should be considered as N/A:

- (a) acute toxicity;
- b) skin corrosion/irritation;
- c) serious eye damage/irritation;
- (d) respiratory or skin sensitisation;
- (e) mutagenicity in germ cells;
- (f) carcinogenicity;
- (g) reproductive toxicity;
- (h) STOT single exposure;
- (i) STOT on repeated exposure;
- (j) hazard of aspiration.

### 11.2. Information on other hazards

#### **Endocrine disrupting properties:**

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No endocrine disruptors present in concentration > = 0.1%.

## **SECTION 12: Ecological information**

### 12.1 Toxicity:

Apply good working practices so that the product does not end up in the environment.

Propylidyntrimethanol, propoxylated, reaction products with ammonia - CAS: 39423-51-3

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 100 mg/l - Duration h: 96 - Notes: Method: Linee Guida 203 Test dell'OECD

e) Plant toxicity:

Endpoint: EC50 - Species: Algae = 4.4 mg/l - Duration h: 72 - Notes: Method: Linee Guida 201 Test dell'OECD

Endpoint: NOEC - Species: Algae = 1 mg/l - Duration h: 72 - Notes: Method: Linee Guida 201 Test dell'OECD

Endpoint: EC50 - Species: Daphnia = 13 mg/l - Duration h: 48 - Notes: Method: OECD TG 202

### 12.2 Persistence and Degradability:

IPE 744

Biodegradability: No data available.

Propylidyntrimethanol, propoxylated, reaction products with ammonia - CAS: 39423-51-3

Biodegradability: Not readily biodegradable.

### 12.3 Bioaccumulation:

IPE 744

Bioaccumulation: Information not available

Propylidyntrimethanol, propoxylated, reaction products with ammonia - CAS: 39423-51-3

Bioaccumulation: Information not available

### 12.4 Mobility in Soil:

IPE 744

Mobility in soil: No data available

Propylidyntrimethanol, propoxylated, reaction products with ammonia - CAS: 39423-51-3

Mobility in soil: No data available

### 12.5 Results of PBT and vPvB assessment

vPvB-substances: None - PBT Substances None

### 12.6 Endocrine disrupting properties

No endocrine disruptors present in concentration > = 0.1%.

### 12.7. Other adverse effects

No

## **SECTION 13: Instructions for disposal**

### 13.1 Waste treatment methods:

Recover, if possible.

Send to authorised disposal plants or for incineration under controlled conditions.

In so doing, comply with the local and national regulations currently in force.

## **SECTION 14: Information relating to carriage**

### 14.1 UN number

ADR/RID/ADN: UN 3082

IMDG: UN 3082

IATA: UN 3082

### 14.2 Proper load name according to UN Model Regulations

ADR/RID/ADN: LIQUID DANGEROUS FOR THE ENVIRONMENT, N.O.S.  
(mixture containing trimethylolpropane polyoxipropylentriamine)

IMDG: ENVIRONMENTALLY HAZARDOUS LIQUID, N.O.S.  
(mixture containing trimethylolpropane polyoxipropylentriamine)

IATA: LIQUID DANGEROUS FOR THE ENVIRONMENT, N.O.S.  
(mixture containing trimethylolpropane polyoxipropylentriamine)

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## 14.3 Transport hazard class(es)

ADR-class:	9
ADR label:	9
ADR - Hazard identification number	90
IATA Class:	9
IATA label:	9
IMDG Class:	9

## 14.4 Packing group

ADR packing group:	III
IATA Packing group:	III
IMDG Packing group:	III

## 14.5 Environmental hazards

Marine pollutant:	No
IMDG-EMS:	F-A, S-F

## 14.6 Special precautions for the user

ADR Tunnel Restriction Code:	E
IATA passenger aircraft:	964
IATA cargo aircraft:	964
IMDG-Technical name:	ENVIRONMENTALLY HAZARDOUS LIQUID, N.O.S. (mixture containing trimethylpropane polyoxipropylentriamine)

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

N.A.

## **SECTION 15: Legally required information**

### 15.1 Safety, health and environmental regulations and legislation specific to the substance or mixture

Dir. 98/24 / EC (Risks related to chemical agents at work)

Dir. 2000/39 / EC (occupational exposure limits)

Regulation (EC) No 1907/2006 (REACH)

Regulation (EC) No 1272/2008 (CLP)

Regulation (EC) 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 2020/878

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Regulation (EU) n. 2017/776 (ATP 10 CLP)

Regulation (EU) n. 2018/669 (ATP 11 CLP)

Regulation (EU) n. 2018/1480 (ATP 13 CLP)

Regulation (EU) n. 2019/521 (ATP 12 CLP)

Regulation (EU) n. 2020/217 (ATP 14 CLP)

Regulation (EU) n. 2020/1182 (ATP 15 CLP)

Regulation (EU) n. 2021/643 (ATP 16 CLP)

### **Restrictions on the product or substances in Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent amendments:**

None

### **Please refer to the following legal provisions, if applicable:**

Directive 2012/18 / EU (Seveso III)

Regulation (EC) No 648/2004 (detergents).

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Dir. 2004/42 / EC (VOC Directive)

## Provisions relating to Directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, Part 1

Product belongs to category: E2

### 15.2 Chemical safety assessment:

No chemical safety assessment has been carried out for the mixture.

## SECTION 16: Other information

### Full text of the H statements

H312 Harmful in contact with skin.

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H411 Toxic to aquatic life with long lasting effects.

### Full text of other abbreviations

Acute tox. 4	3.1 / 4 / Dermal	Acute toxicity (dermal), category 4
Acute tox. 4	3.1 / 4 / Inhal.	Acute toxicity by inhalation category 4
Skin Corr. 1A	3.2 / 1A	Skin corrosion, category 1A
Eye Dam. 1	3.3 / 1	Serious eye damage, Category 1
Aquatic Chronic 2	4.1 / C2	Chronic (long-term) aquatic hazard, Category 2

### Paragraphs modified from the previous revision:

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

SECTION 3: Composition/information on ingredients

SECTION 8: Exposure controls/personal protection

SECTION 9: Physical and chemical properties

SECTION 11: Toxicological information

SECTION 12: Ecological information

SECTION 14: Transport information

SECTION 15: Regulatory information

SECTION 16: Other information

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition – Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date.

It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

This Safety Data Sheet has been fully updated in accordance with Regulation 2020/878.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

### Classification according to Regulation (EC) No 1272/2008

Acute tox. 4, H302  
Acute tox. 4, H312  
Skin Corr. 1A, H314  
Eye pt. 1, H318  
Aquatic Chronic 2, H411

### Classification procedure

Calculation method  
Calculation method  
Calculation method  
Calculation method  
Calculation method

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ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute toxicity estimation
ATEmix:	Acute toxicity estimation (mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	classification, labelling, packaging.
DNEL:	Derived dose without effect.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally harmonised system for classification and labelling of chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the International Air Transport Association (IATA).
ICAO:	International Civil Aviation Organisation.
ICAO-TI:	Technical Instructions of the International Civil Aviation Organization (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Fatal concentration, for 50 percent of the test population.
LD50:	Lethal dose, for 50 percent of the test population.
PNEC:	Predicted no-effect concentration.
RID:	Regulation on the International Carriage of Dangerous Goods by Rail.
STEL:	Short-term exposure limit.
STOT:	Specific target organ toxicity.
TLV:	Threshold Limiting Value.
TWA:	time-weighted average
WGK:	German water hazard class.