SAFETY DATA SHEET

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

1.1 Product identification:

Product name:	IPE 725
UFI:	0F7Q-TG0N-1509-W8VC

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

Usage:	Hardener for epoxy casting resin.
Uses advised against:	Not suitable for "Do-it-yourself".

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 / www.artsuppliesonweb.com Email: ao@assyst.org / 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.
Hazard, Skin Corr. 1A, Causes severe skin burns and eye damage.
Hazard, Eye Dam. 1, Causes serious eye damage.
Warning, Skin Sens. 1, May cause allergic skin reaction.
Aquatic Chronic 3, Harmful 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

- ✓ 3-aminomethyl-3,5,5-trimethylcyclohexylamine
- ✓ benzyl alcohol
- ✓ Salicylic acid

Indications of danger:
H302 + H312 Harmful if swallowed and in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.
Precautions
Prevention:
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash the tools thoroughly after handling.
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.
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.
Special Provisions:
None
Special provisions according to Annex XVII of REACH and subsequent amendments:
None
2.3 Other hazards:
No PBT, vPvB or endocrine disruptor substances present in concentration >= 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 (%)
3-aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2 220-666-8 612-067-00-9 01-2119514687-32	Acute Tox. 4 H312 Acute Tox. 4 H302 Skin Corr. 1B H314 Skin Sens. 1 H317 Aquatic Chronic 3 H412	>= 40% - < 60%
benzyl alcohol	100-51-6 202-859-9 603-057-00-5 01-2119492630-38	Acute Tox. 4 H332 Acute Tox. 4 H302 Eye Irrit. 2 H319	>= 20% - < 40%
Salicylic acid	69-72-7 200-712-3 - 01-2119486984-17	Acute Tox. 4 H302 Eye Dam. 1 H318	>= 1% -< 5%

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 of 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.
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
Specific firefighting hazards:
Do not inhale explosion gases or combustion gases.
Burning produces heavy smoke.
5.3 Advice for firefighters:
Special protective equipment for firefighters:
Use suitable respiratory equipment.
Collect contaminated extinguishing water separately. It may not be discharged into the sewage system.
Move undamaged containers out of the immediate danger zone if this can be done safely.

SECTION 6: Accidental release measures for the substance or mixture

6.1 Personal precautions, protective equipment and emergency procedures:
Personal precautions:
Wear personal protective equipment.
Remove persons to safety.
See protective measures under points 7 and 8.
6.2 Environmental precautions:
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

Store in original containers, dry, tightly closed, in a cool and well-ventilated area.
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:

Benzyl alcohol - CAS: 100-51-6
TLV TWA - 5-10 ppm
TLV STEL - 5-10 ppm

DNEL exposure limits

Substance name	End use	Route of exposure	Possible health condition	Value
3-aminomethyl-3,5,5-trimethylcyclohexylamine - CAS: 2855-13-2	Worker Professional	Human Inhalation	Long Term, local effects	0.073 mg/m3
	Worker Professional	Human Inhalation	Short Term, local effects	0.073 mg/m3
	Consumer	Human Oral	Long-term, systemic effects	0.526 07
benzyl alcohol - CAS: 100-51-6	Consumer	Human Inhalation	Long Term (repeated)	5.4 mg/m3
	Consumer	Human Oral	Long-term, systemic effects	4 mg/kg
	Consumer	Human Dermal	Short Term (acute)	20 mg/kg
	Consumer	Human Inhalation	Short Term (acute)	27 mg/m3
	Consumer	Human Oral	Short Term (acute)	20 mg/kg

PNEC exposure limits

Substance name	Environmental compartment	Value
3-aminomethyl-3,5,5-trimethylcyclohexylamine - CAS: 2855-13-2	Fresh water	0.06 mg/l
	Freshwater sediments	5.784 mg/kg
	Marine water	0.006 mg/l
	Marine water sediments	0.578 mg/kg
	08	1.121 mg/kg
benzyl alcohol - CAS: 100-51-6	Fresh water	1 mg/l
	Freshwater sediments	5.27 mg/kg
	Marine water	0.1 mg/l
	Marine water sediments	0.527 mg/kg
	08	0.45 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:	Pale yellow
Odour:	Ammoniacal
Melting point/freezing point:	Not Relevant
Boiling point or initial boiling point and boiling range:	> 150°C
Flammability:	Not Relevant
Lower and upper explosion limit:	Not Relevant
Flash point:	> 100°C
Auto-ignition temperature:	Not Relevant
Decomposition temperature:	Not Relevant
pH:	12
Kinematic viscosity:	Not Relevant
Solubility in water:	Miscible
Solubility in oil:	Not Relevant
Partition coefficient n-octanol/water (log value):	Not Relevant
Vapour pressure:	Not Relevant
Density and/or relative density:	1.01 gr/ml
Relative vapour density:	Not Relevant
Particle characteristics:	
Particle size:	Not Relevant

9.2 Other information
No other relevant information

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
Toxicological information of the main substances contained in the product:
3-aminomethyl-3,5,5-trimethylcyclohexylamine - CAS: 2855-13-2
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat = 1030 mg/kg - Notes: Method OECD Guideline 401
Test: LC50 - Route: Inhalation - Species: Rat > 5.01 mg/l - Duration: 4h - Notes: Method OECD Guideline 403
Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg - Duration: 24h - Notes: Method OECD Guideline 402
b) skin corrosion/irritation:
Species: Rabbit
d) respiratory or skin sensitisation:
Species: CAVIE
g) reproductive toxicity:
Test: NOAEL - Species: Rat > 250 mg/kg bw - Notes: Method OECD Guideline 414
h) STOT-single exposure:
Test: NOAEL - Species: Rat 60 mg/kg bw - Notes: Method OECD Guideline 408
benzyl alcohol - CAS: 100-51-6
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat = 1.620 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit = 2.000 mg/kg
Test: LC50 - Route: Inhalation - Species: Rat > 4.178 mg/l - Duration: 4h - Source:
Method : OCSE 403
Salicylic acid - CAS: 69-72-7
LD50 : > 890 mg/kg (oral rat)
LD50 : > 2.000 mg/kg (dermal rat)
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:
No endocrine disruptor substances 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.

3-aminomethyl-3,5,5-trimethylcyclohexylamine - CAS: 2855-13-2
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish = 110 mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia = 23 mg/l - Duration h: 48
Endpoint: NOEC - Species: Daphnia = 3.0 mg/l
Endpoint: EC50 - Species: Algae = 37 mg/l - Duration h: 72
g) toxicity on microorganisms:
Endpoint: EC10 - Species: BATTERI = 1120 mg/l - Duration h: 18
benzyl alcohol - CAS: 100-51-6
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish = 770 mg/l - Duration h: 1
Endpoint: LC50 - Species: Fish = 460 mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia = 230 mg/l - Duration h: 48 - Notes: Metodo : OCSE 202
b) Aquatic chronic toxicity:
Endpoint: NOEC - Species: Daphnia = 51 mg/l - Notes: Metodo : OCSE 211
e) Plant toxicity:
Endpoint: EC50 - Species: Algae = 770 mg/l - Duration h: 72 - Notes: Metodo : OCSE 201
12.2 Persistence and Degradability:
IPE 725
Biodegradability: No data available.
3-aminomethyl-3,5,5-trimethylcyclohexylamine - CAS: 2855-13-2
Biodegradability: Poorly biodegradable
benzyl alcohol - CAS: 100-51-6
Biodegradability: Biodegradable
12.3 Bioaccumulation:
IPE 725
Bioaccumulation: Information not available
3-aminomethyl-3,5,5-trimethylcyclohexylamine - CAS: 2855-13-2
Bioaccumulation: Shortly bioaccumulative.
benzyl alcohol - CAS: 100-51-6
Bioaccumulation: Shortly bioaccumulative.
12.4 Mobility in Soil:
IPE 725
Mobility in soil: No data available
3-aminomethyl-3,5,5-trimethylcyclohexylamine - CAS: 2855-13-2
Mobility in soil: low potential
benzyl alcohol - CAS: 100-51-6
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 disruptor substances present in concentration >= 0.1%
12.7. Other adverse effects
None

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 2735
IMDG:	UN 2735
IATA:	UN 2735

14.2 Proper load name according to UN Model Regulations

ADR/RID/ADN:	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (mixture with isophorondiamine)
IMDG:	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (mixture with isophorondiamine)
IATA:	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (mixture with isophorondiamine)

14.3 Transport hazard class(es)

ADR-Class:	8
ADR-Label:	8
ADR - Hazard identification number:	80
IATA-Class:	8
IATA-Label:	8
IMDG-Class:	8

14.4 Packing group

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

14.5 Environmental hazards

Marine pollution	no
IMDG-EMS:	F,A-S,B

14.6 Special precautions for the user

ADR Tunnel Restriction Code:	E
IMDG-Technical name:	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (mixture with isophorondiamine)

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).
Dir. 2004/42 / EC (VOC Directive)

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

Seveso III category according to Annex 1, Part 1
None

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

H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.
H332 Harmful if inhaled.
H319 Causes serious eye irritation.
H318 Causes serious eye damage.

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
Acute tox. 4	3.1 / 4 / Oral	Acute toxicity, category 4
Skin Corr. 1	3.2 / 1	Skin corrosion, Category 1
Skin Corr. 1A	3.2 / 1A	Skin corrosion, Category 1A
Eye Dam. 1	3.3 / 1	Serious eye damage, Category 1
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Skin Sens.1	3.4.2 / 1	Skin sensitisation, category 1
Aquatic Chronic 3	4.1 / C3	Chronic (long-term) aquatic hazard category 3

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 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	**Classification procedure**
Acute tox. 4, H302	Calculation method
Acute tox. 4, H312	Calculation method
Skin Corr. 1A, H314	Calculation method
Eye damage 1, H318	Calculation method
Skin Sens. 1, H317	Calculation method
Aquatic Chronic 3, H412	Calculation method

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.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport 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.