Safety Data Sheet
IPE 743 L

Safety Data Sheet dated 15/7/2024, version 3

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

1.1. Product identifier
Mixture identification:
Trade name: IPE 743 L

UFI: 3CAW-9GGY-V501-69V9

1.2. Relevant identified uses of the substance or mixture and uses advised against
Recommended use:
Use at industrial sites / professional use; epoxy curing agent
Dispersive use by professional workers; use in coatings, adhesives and sealants
Uses advised against:
Consumer use is not supported

1.3. Details of the supplier of the safety data sheet
Company: Trias-Chem Srl Via Micheli, 7 43056 S.Polo di Torrile - PR - ITALIA
Competent person responsible for the safety data sheet:
sds@triaschem.it

1.4. Emergency telephone number
n. +39 0521-812188 Fax n. +39 0521-812195

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
EC regulation criteria 1272/2008 (CLP):
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.
Warning, Skin Sens. 1A, May cause an allergic skin reaction.
Aquatic Chronic 2, Toxic to aquatic life with long lasting effects.
Adverse physicochemical, human health and environmental effects:
No other hazards

2.2. Label elements
Hazard pictograms:

Danger
Hazard statements:
H302+H312 Harmful if swallowed or in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.
Precautionary statements:
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. 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 Immediately call a POISON CENTER/doctor/...

P391 Collect spillage.
Special Provisions:
None
Contains
3-(aminomethyl)-3,5,5-trimethylcyclohexylamine
Propylidynetrimethanol, propoxylated, reaction products with ammonia

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/information on ingredients

3.1. Substances
N.A.
3.2. Mixtures
Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number	Classification
>= 80%	Propylidynetrimethanol, propoxylated, reaction products with ammonia	CAS: 39423-51-3 EC: 500-105-6 REACH No.: 01-2119556886-20-XXXX	3.1/4/Oral Acute Tox. 4 H302 3.1/4/Dermal Acute Tox. 4 H312 3.3/1 Eye Dam. 1 H318 4.1/C2 Aquatic Chronic 2 H411
>= 10% - < 20%	3-(aminomethyl)-3,5,5-trimethylcyclohexylamine	Index number: 612-067-00-9 CAS: 2855-13-2 EC: 220-666-8 REACH No.: 01-2119514687-32-XXXX	3.1/4/Oral Acute Tox. 4 H302 3.1/4/Dermal Acute Tox. 4 H312 3.2/1 Skin Corr. 1 H314 3.4.2/1 Skin Sens. 1 H317 4.1/C3 Aquatic Chronic 3 H412 Specific Concentration Limits: C >= 0,001%: Skin Sens. 1A H317

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 eyes contact:
After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately.
Protect uninjured eye.
In case of Ingestion:
Do NOT induce vomiting.
Give nothing 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 unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
Treatment:
None

SECTION 5: Firefighting 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 and 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

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.

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:
Contamined 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(s)
None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
No occupational exposure limit available

DNEL Exposure Limit Values
- Propylidynetrimethanol, propoxylated, reaction products with ammonia - CAS: 39423-51-3
  - Worker Professional: 14.1 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
  - Worker Professional: 1.6 07 - Exposure: Human Dermal - Frequency: Long Term, systemic effects
- 3-(aminomethyl)-3,5,5-trimethylcyclohexylamine - CAS: 2855-13-2
  - Worker Professional: 0.073 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, local effects
  - Worker Professional: 0.073 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, local effects
  - Consumer: 0.526 07 - Exposure: Human Oral - Frequency: Long Term, systemic effects

PNEC Exposure Limit Values
- Propylidynetrimethanol, propoxylated, reaction products with ammonia - CAS: 39423-51-3
  - Target: Fresh Water - Value: 0.004 mg/l
  - Target: Marine water - Value: 0 mg/l
  - Target: Freshwater sediments - Value: 0.022 mg/kg - Notes:: peso secco
  - Target: Marine water sediments - Value: 0.002 mg/kg
  - Target: 08 - Value: 0.002 mg/kg - Notes:: peso secco
- 3-(aminomethyl)-3,5,5-trimethylcyclohexylamine - CAS: 2855-13-2
  - Target: Fresh Water - Value: 0.06 mg/l
  - Target: Marine water - Value: 0.006 mg/l
  - Target: Freshwater sediments - Value: 5.784 mg/kg - Notes:: peso a secco
  - Target: Marine water sediments - Value: 0.578 mg/kg - Notes:: peso a secco
  - Target: 08 - Value: 1.121 mg/kg - Notes:: peso a secco

8.2. Exposure controls

Eye protection:
- Wear protective goggles (ref. Standard EN 166).

Protection for skin:
- Safety shoes.
- Wear work clothes with long sleeves and safety footwear for professional category III use (ref. Regulation 425/2016 and standard EN 141)

Protection for hands:
- Protect your hands with work gloves (ref. Regulation 425/2016 and standard EN 141)

Respiratory protection:
- Use adequate respiratory protection device. (ref. Regulation 425/2016 - EN 141)

Thermal Hazards:
- None

Environmental exposure controls:
- Prevent from entering sewers, basements or any place where its accumulation can be dangerous.

Appropriate engineering controls:
- None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes:
Physical state:	Liquid	--	--
Colour:	pale yellow	--	--
Odour:	amino	--	--
Melting point/freezing point:	Not Relevant	--	--

Boiling point or initial boiling point and boiling range:	Not Relevant	--	--
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:	soluble	--	--
Solubility in oil:	Not Relevant	--	--
Partition coefficient n-octanol/water (log value):	Not Relevant	--	--
Vapour pressure:	Not Relevant	--	--
Density and/or relative density:	1.00 gr/ml (25°C)	ISO 1183	--
Relative vapour density:	Not Relevant	--	--
Particle characteristics:			
Particle size:	Not Relevant	--	--

9.2. Other information

Properties	**Value**	**Method:**	**Notes:**
Viscosity:	50 – 150 mPas@25°C	DIN 53019	--

SECTION 10: Stability and reactivity

10.1. Reactivity
There are no particular risks of reaction with other substances in normal conditions of use.
10.2. Chemical stability
The product is stable in normal conditions of use and storage.
10.3. Possibility of hazardous reactions
None
10.4. Conditions to avoid
Stable under normal conditions.
10.5. Incompatible materials
None in particular.
10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

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

Toxicological information of the product:

N.A.

Toxicological information of the main substances found in the product:

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

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 550 mg/kg - Notes: Metodo: Linee Guida 425 Test dell'OECD

Test: LD50 - Route: Skin - Species: Rat > 1.000 mg/kg - Notes: Metodo: Linee Guida 402 Test dell'OECD

e) germ cell mutagenicity:

Test: Genotoxicity

3-(aminomethyl)-3,5,5-trimethylcyclohexylamine - CAS: 2855-13-2

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 1030 mg/kg - Notes: Metodo OECD Guideline 401

Test: LC50 - Route: Inhalation - Species: Rat > 5.01 mg/l - Duration: 4h - Notes: Metodo OECD Guideline 403

Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg - Duration: 24h - Notes: Metodo 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: Metodo OECD Guideline 414

h) STOT-single exposure:

Test: NOAEL - Species: Rat 60 mg/kg bw - Notes: Metodo OECD Guideline 408

If not differently specified, the information required in Regulation (EU)2020/878 listed below must be considered as N.A.:

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

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

Adopt good working practices, so that the product is not released into the environment.

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

a) Aquatic acute toxicity:

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

e) Plant toxicity:

Endpoint: EC50 - Species: Algae = 4.4 mg/l - Duration h: 72 - Notes: Metodo: Linee Guida 201 Test dell'OECD
Endpoint: NOEC - Species: Algae = 1 mg/l - Duration h: 72 - Notes: Metodo: Linee Guida 201 Test dell'OECD

h) Acute Daphnia Toxicity::
Endpoint: EC50 - Species: Daphnia = 13 mg/l - Duration h: 48 - Notes: Metodo: OECD TG 202

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

12.2. Persistence and degradability
IPE 743 L
Biodegradability: No data available.
Propylidynetrimethanol, propoxylated, reaction products with ammonia - CAS: 39423-51-3
Biodegradability: Non-readily biodegradable
3-(aminomethyl)-3,5,5-trimethylcyclohexylamine - CAS: 2855-13-2
Biodegradability: Poorly biodegradable

12.3. Bioaccumulative potential
IPE 743 L
Bioaccumulation: Information not available
Propylidynetrimethanol, propoxylated, reaction products with ammonia - CAS: 39423-51-3
Bioaccumulation: Information not available
3-(aminomethyl)-3,5,5-trimethylcyclohexylamine - CAS: 2855-13-2
Bioaccumulation: Shortly bioaccumulative.

12.4. Mobility in soil
IPE 743 L
Mobility in soil: No data available
Propylidynetrimethanol, propoxylated, reaction products with ammonia - CAS: 39423-51-3
Mobility in soil: No data available
3-(aminomethyl)-3,5,5-trimethylcyclohexylamine - CAS: 2855-13-2
Mobility in soil: low potential

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: Disposal considerations

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: Transport information

14.1. UN number or ID number

ADR-UN number:	2735
IATA-Un number:	2735
IMDG-Un number:	2735

14.2. UN proper shipping name

ADR-Shipping Name:	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (mixture containing Isophoronediamine)

IATA-Shipping Name: POLYAMINES, LIQUID, CORROSIVE, N.O.S. (mixture containing Isophoronediamine)
IMDG-Shipping Name: POLYAMINES, LIQUID, CORROSIVE, N.O.S. (mixture containing Isophoronediamine)

14.3. Transport hazard class(es)
ADR-Class: 8
IATA-Class: 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 pollutant: No
IMDG-EMS: F-A, S-B

14.6. Special precautions for user
ADR-Transport category (Tunnel restriction code): E
IMDG-Shipping Name: POLYAMINES, LIQUID, CORROSIVE, N.O.S. (mixture containing Isophoronediamine)

14.7. Maritime transport in bulk according to IMO instruments
N.A.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Dir. 98/24/EC (Risks related to chemical agents at work)
Dir. 2000/39/EC (Occupational exposure limit values)
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 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)
Regulation (EU) n. 2021/849 (ATP 17 CLP)
Regulation (EU) n. 2022/692 (ATP 18 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:
Restrictions related to the product:
Restriction 3
Restrictions related to the substances contained:
Restriction 75

Where applicable, refer to the following regulatory provisions :
Directive 2012/18/EU (Seveso III)
Regulation (EC) nr 648/2004 (detergents).
Dir. 2004/42/EC (VOC directive)

Provisions related 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.
Substances for which a Chemical Safety Assessment has been carried out:
3-(aminomethyl)-3,5,5-trimethylcyclohexylamine

SECTION 16: Other information

Text of phrases referred to under heading 3:
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H318 Causes serious eye damage.
H411 Toxic to aquatic life with long lasting effects.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.

Hazard class and hazard category	**Code**	**Description**
Acute Tox. 4	3.1/4/Dermal	Acute toxicity (dermal), Category 4
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), 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
Skin Sens. 1	3.4.2/1	Skin Sensitisation, Category 1
Skin Sens. 1A	3.4.2/1A	Skin Sensitisation, Category 1A
Aquatic Chronic 2	4.1/C2	Chronic (long term) aquatic hazard, category 2
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 2: Hazards identification
SECTION 3: Composition/information on ingredients
SECTION 6: Accidental release measures
SECTION 8: Exposure controls/personal protection
SECTION 9: Physical and chemical properties
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SECTION 12: Ecological information
SECTION 14: Transport information
SECTION 15: Regulatory information
SECTION 16: Other information

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

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Acute Tox. 4, H302	Calculation method
Acute Tox. 4, H312	Calculation method
Skin Corr. 1A, H314	Calculation method
Eye Dam. 1, H318	Calculation method
Skin Sens. 1A, H317	Calculation method
Aquatic Chronic 2, H411	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.