EPOPACK 301 - Hardener

1. IDENTIFICATION OF SUBSTANCES / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifiers

Product Name:	EPOPACK 301 Hardener
Product code:	OCON-185
CAS number:	25620-58-0
EC number:	247-134-8

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

Identified uses:	Hardener for EPOPACK 301 epoxy adhesive system.
Uses advised against:	This product is to be used only for the purpose stated above.

Details of the supplier of the safety data sheet

Manufacturer:	Logitech Ltd Erskine Ferry Road Old Kilpatrick Glasgow G60 5EU Scotland, UK
Telephone	+44 (0) 1389 875444
E-mail	coshh.info@logitech.uk.com

Emergency telephone number

+44 (0) 1389 875444 (09:00 – 17:00 Monday to Friday)

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

This material is a substance

Classification according to Regulation (EC) 1272/2008 (EU 'CLP' regulation) as amended:

Acute toxicity - oral	Category 4	H302 - Harmful if swallowed.
Skin Corrosion	Category 1B	H314 - Causes severe skin burns and eye damage
Skin sensitisation	Category 1	H317 - May cause an allergic skin reaction
Aquatic Chronic	Category 3	H412 - Harmful to aquatic life with long lasting effects

Classification according to CHIP and EU Directives 67/548/EEC or 1999/45/EC

Symbol(s)	Xn	Harmful
	C	Corrosive
Risk phrase(s)	R34	Causes burns
	R22	Harmful if swallowed.
	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

Labelling elements according to Regulation (EC) 1272/2008 (EU 'CLP' regulation)

Pictogram (s):


Signal Word: **DANGER**

Hazard Statements

Harmful if swallowed.
Causes severe skin burns and eye damage
May cause an allergic skin reaction
Harmful to aquatic life with long lasting effects

Precautionary Statements

Wear protective gloves/protective clothing/eye protection/face protection
IF ON SKIN: Gently wash with plenty of soap and water
If skin irritation or rash occurs: Get medical advice/attention.
IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Avoid release to the environment

Additional labelling:

No information

Labelling elements according to CHIP and EU Directives 67/548/EEC or 1999/45/EC

Symbol:

Indication of Danger: CORROSIVE

Risk phrases:
Harmful if swallowed.
Causes burns
May cause sensitisation by skin contact
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Safety phrases:
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
If swallowed, seek medical advice immediately and show this container or label.
After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of soap and water.
Wear suitable protective clothing, gloves and eye/face protection
Avoid release to the environment. Refer to special instructions/safety data sheet

Other hazards No information available

3. COMPOSITION / INFORMATION ON INGREDIENTS

This material is a substance.

Hazardous substances present at or above threshold limits:

Component	CAS No.	EC No.	%

Trimethyl-1, 6-Hexanediamine	**25620-58-0**		**100**

4. FIRST AID MEASURES

Description of first aid measures

General advice
Remove from source of exposure.

Inhalation
Remove from exposure to fresh air. If the person feels unwell or experiences continued irritation seek medical attention.

Ingestion
DO NOT induce vomiting.
Drink plenty of water
Seek immediate medical attention.

Skin contact
Wash area with soap and water then rinse thoroughly with water. If person experiences continued irritation seek medical advice.
Remove contaminated clothing and launder before re-use.

Eye contact
Wash out with plenty of water. After initial flushing, remove any contact lenses and continue flushing.
Seek immediate medical advice.

Most important symptoms and effects, both acute and delayed
No information available

Indication of any immediate medical attention and special treatment needed
Product is corrosive and will cause burns. Respond to eye / skin contact and ingestion immediately.

5. FIRE-FIGHTING MEASURES

Extinguishing media
Suitable extinguishing media: Water spray, alcohol resistant foam, dry extinguishing powder, carbon dioxide
Unsuitable extinguishing media: Water jet may cause splashing of material.

Special hazards arising from the substances or mixture
Product is based on organic materials. Combustion will produce carbon dioxide, carbon monoxide and irritating and toxic organic chemicals including nitrous oxides.

Advice for fire fighters
Wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Prevent contact with eyes and skin – wear Personal Protective equipment (PPE) - eye protection and chemically impervious gloves (nitrile etc).
Avoid breathing fumes / vapour / mist. Ensure good ventilation.

Environmental precautions

Do not allow to contaminate rivers, streams, other waterways, drains, or other aquatic systems.
Use absorbent materials (spill kit materials, sand, absorbent granules, earth etc) to contain the spillage and prevent environmental contamination.
Advise local authorities immediately if significant spillages cannot be contained.

Methods and material for containment and cleaning up

Use absorbent materials (spill kit materials, sand, absorbent granules, earth etc) to soak up the spillage. Sweep or scrape the absorbed material into a sealable storage container.

Remove final residues with a water / detergent mixture, running the water to foul sewer (NOT surface water drains).

Reference to any other sections

See section 8 for Personal Protective Equipment (PPE)
See section 13 for disposal information

7. HANDLING AND STORAGE

Precautions for safe handling:

Prevent skin contact. Wear chemically impervious gloves and long sleeved clothing.
Prevent eye contact. Wear eye protection.
Avoid breathing fumes – ensure adequate ventilation.
Maintain a good standard of industrial hygiene to prevent accidental ingestion. Do not eat, drink or smoke while using material. Wash hands after use.

Conditions for safe storage, including any incompatibilities

Keep containers sealed in a cool, well ventilated area.
Do not store in direct sunlight or near other heat sources.

Specific end use(s)
None identified

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure limits
There is no UK Workplace Exposure Limit (WEL) for this material.
As with all materials, exposure should be minimised.

Derived No Effect Level (DNEL)	No information available.
Predicted No Effect Concentration (PNEC)	No information available

Exposure controls

Appropriate engineering controls
Design equipment to prevent eye or skin exposure.

Personal protective equipment
If PPE is necessary to control exposure use the following:

Respiratory protection	If significant vapour is generated (or irritation is experienced) use an EN149 approved respirator fitted with a combined particle and organic vapour filter (type AP). The correct selection, fitting, use, storage and maintenance of respiratory protective equipment is important. Follow manufacturer's recommendation or seek expert advice. HSE document HSG 53 provides some guidance
Hand protection	Chemically impervious gloves suitable for use with this material (organic amine) e.g. Nitrile gloves. Follow manufacturer recommendations on inspection and replacement.
Skin protection	Long sleeved clothing. Replace contaminated clothing before skin contact occurs.
Eye protection	EN approved goggles or face shield if eye contact likely .

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemicals properties

Appearance:	colourless - pale yellow liquid
Odour:	'amine' like - pungent
Odour threshold:	information not available
pH:	11.6 at 8 g/l at 20 °C
Melting point:	-35°C
Boiling point:	231°C
Flash point:	104 °C - closed cup
Evaporation rate	information not available
Flammability	information not available
Upper/lower	information not available
explosive limits	information not available
Vapour pressure	0.02 hpa @ 20C
Vapour density	information not available
Density	<1.0
Solubility in water:	Soluble in water.
Solubility in other Ingredients:	information not available
Partition coefficient Octanol/water:	information not available
Auto-ignition temperature	information not available
Decomposition temperature	information not available
Viscosity	information not available
Explosion properties:	information not available
Oxidising properties:	Not oxidising.

Other information
No additional data available

10. STABILITY AND REACTIVITY

Reactivity
Information not available.

Chemical stability
Stable at room temperature.

Possibility of hazardous reactions
information not available

Conditions to avoid
ignition sources

Incompatible materials
Strong acids, oxidising agents

Hazardous decomposition products
Combustion will produce carbon dioxide, carbon monoxide and irritating and toxic organic chemicals.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity	LD50 Oral (rat) - 910 mg/kg
Skin corrosion/irritation	Corrosive
Serious eye damage/ eye irritation	no data available.
Respiratory or skin sensitisation	may cause skin sensistisation by contact.
Germ cell mutagenicity	no data available
Carcinogenicity	Not carcinogenic
Reproductive toxicity	no data available
Specific target organ toxicity – Single exposure	no data available.
Specific target organ toxicity – Repeated exposure	no data available.
Aspiration hazard	no data available.

Further information
no data available

12. ECOLOGICAL INFORMATION

Toxicity
Data not available but is classified as harmful to the aquatic environment

Persistence and biodegradability
Not biodegradeable.

Bioaccumulative potential
Data not available

Mobility in Soil
The product is water soluble and may spread in water systems

Results of PBT and vPvB assessment
Data not available

Other adverse effects
Data not available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Product
Dispose of product as hazardous waste in accordance with local, national and international legislation, using an approved registered waste disposal company.
The European Waste Code will depend upon the use of the product and cannot be specified here (consider 13 08 99 or 16-05-08).
If the product has been reacted with an appropriate epoxy resin to produce a homogenous cured solid resin this can be disposed of as non-hazardous waste

Packaging
Clean packaging can be disposed of as general waste: European Waste Code 15 01 xx (xx will depend upon the type of packaging e.g. plastic, cardboard etc. Refer to European Waste Catalogue). Recycle such waste wherever possible.
Contaminated packaging / containers must be disposed of as hazardous waste

14. TRANSPORT INFORMATION

UN number
2327

	ADR/RID	IMDG	IATA
UN proper shipping name	TRIMETHYLHEXAMETHYLENEDIAMINES		
Transport hazard class(s)	8	8	8
Packing group	III	III	III

Marine pollutant - No

Special precautions for user
None identified

Transport in bulk according to Annex II of MARPOL 73/78 and IBC Code
No information available

15. REGULATORY INFORMATION

This Safety Data Sheet has been prepared in accordance with the requirements of regulation (EC) No 1907/2006 as amended by regulation (EU) No 453/2010.

Workplace exposure Limits given in section 8 have been taken from the UK HSE document: EH40/2005 Workplace exposure limits as amended.

Relevant regulations:
Regulation (EC) 1272/2008 (EU 'CLP' regulation)
Regulation (EC) 790/2009 First Adaptation to Technical Progress (ATP) for CLP regulation
Regulation (EC) 286/2011 Second Adaptation to Technical Progress (ATP) for CLP regulation
EU Directive 67/548/EEC ('Dangerous Substances Directive')
Regulation (EC) No 1907/2006 ('REACH')
Regulation (EU) No 453/2010.

Safety, health and environmental regulations/legislation specific for the substance or mixture
None identified

Chemical safety assessment
A Chemical Safety Assessment has not been undertaken for this product.

16. OTHER INFORMATION

The information contained in the Safety Data Sheet is correct to the best of our knowledge at the date of issue. It is intended as a guide for the safe use, handling, storage, transportation and disposal. It is not intended as a warranty or specification. The information relates only to the product specified and may not be suitable for combinations with other materials.