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

Product Identifiers

Product Name: Araldite Mounting Hardener

Product code: 0CON-288

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

Identified uses: Hardener for 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)

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2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

This material is a mixture

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

Skin Corrosion	Category 1B	H314 - Causes severe skin burns and eye damage
Skin sensitisation	Category 1	H317 - May cause an allergic skin reaction
Serious Eye Irritation	Category 2	H319 - Causes serious eye irritation
Acute toxicity - oral	Category 4	H302 - Harmful if swallowed
Acute toxicity - dermal	Category 4	H312 - Harmful in contact with skin
Aquatic – chronic	Category 2	H411 – Toxic 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)	R21	Harmful in contact with skin.
	R22	Harmful if swallowed.
	R34	Causes burns.
	R43	May cause sensitization by skin contact.
	R51/53	Toxic 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

Causes severe skin burns and eye damage
May cause an allergic skin reaction
Causes serious eye irritation
Harmful if swallowed
Harmful in contact with skin
Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment

Precautionary Statements

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.
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
Avoid release to the environment.

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

Symbol:

Indication of Danger: CORROSIVE HARMFUL DANGEROUS FOR THE ENVIRONMENT

Risk phrases:

Causes burns.
Harmful in contact with skin.
Harmful if swallowed.
May cause sensitization by skin contact
Toxic 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
After contact with skin, wash immediately with plenty of soap and water
Wear suitable protective clothing, gloves and eye/face protection
In case of accident or if you feel unwell seek medical advice immediately (show the label where possible)

Additional labelling: Contains Triethylenetetramine (EC no. 203-950-6): May produce an allergic reaction.

Other Hazards

No information available.

3. COMPOSITION / INFORMATION ON INGREDIENTS

This material is a mixture.

Hazardous substances present at or above threshold limits:

Product/ingredient name	Identifiers	%	Classification 67/548/EEC	Classification Regulation (EC) No 1272/2008[CLP]	Type
fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	EC: 500-191-5	60-100	Xi; R41, R38 N; R51/53	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411	[1]
2,4,6-tris(dimethylamino methyl)phenol	CAS:90-72-2 EC: 202-013-9	7-13	Xn; R22 C; R34 R52/53	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412	[1]
triethylenetetramine	CAS: 90640-67-8 EC: 203-950-6	3-7	Xn; R21/22 C; R34 R43 R52/53	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412	[1]
bis[dimethylamino) methyl]phenol	CAS: 71074-89-0 EC: 275-162-0	1-3	Xn; R22 Xi; R36/38	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section

Type

[1] Substance classified with a health or environmental hazard

4. FIRST AID MEASURES

Description of first aid easures

General advice
Remove from source of exposure.

Inhalation
Remove from exposure to fresh air. 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 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.

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 (rubber, nitrile, PVC 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.
May be toxic to the environment if released in large quantities

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.
Prevent eye contact. Wear eye protection.
Avoid breathing fumes – ensure adequate ventilation.
Do not eat, drink or smoke while using material. Wash hands after use.

Conditions for safe storage, including any incompatibilities

Storage temperature range 2-40C
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. Provide ventilation or extraction if significant vapour /mist is generated.

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

Exposure controls

Appropriate engineering controls
If user generates dust, fumes, gas, vapour or mist use a process enclosure and LEV Local exhaust ventilation to keep operator exposure below any recommended statutory limits.

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 the materials listed in section 3 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:	pale yellow – amber liquid
Odour:	information not available
Odour threshold:	information not available
pH:	information not available
Melting point:	information not available
Boiling point:	>200 ^{o}C
Flash point:	>150 ^{o}C DIN 51758 (Pensky-Martens Closed Cup)
Evaporation rate	information not available
Flammability	information not available
Upper/lower	information not available
explosive limits	information not available
Vapour pressure	< 0.8 Pa at 25 °C
Vapour density	information not available

Density	0.95 g/cm3 at 25 °C
Solubility in water:	Insoluble in water.
Solubility in other Ingredients:	information not available
Partition coefficient Octanol/water:	information not available
Auto-ignition temperature	information not available
Decomposition temperature	>200 ^{o}C
Viscosity	20 - 60 mPa.s at 25 °C
Explosion properties:	information not available
Oxidising properties:	Not oxidising.

Other information
No additional data available

10. STABILITY AND REACTIVITY

Reactivity
Not reactive to materials commonly used in the transportation, handling and storage.

Chemical stability
Stable at room temperature.

Possibility of hazardous reactions
No hazardous reactions known

Conditions to avoid
ignition sources

Incompatible materials
Strong acids, bases, 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	Oral: LD 50 (rat): >5000 mg / kg
Irritation	Expected to be irritating to the eyes and skin.
Corrosivity	No data available
Sensitisation	Can cause skin sensitisation.
Repeated dose toxicity	No data available
Carcinogenicity	Not classified as carcinogenic
Mutagenicity	Not considered a mutagenic hazard.
Toxicity for reproduction	Not classified as a developmental toxicant.

Other information
No data available

12. ECOLOGICAL INFORMATION

Toxicity
Data not available

Persistence and biodegradability
Not expected to be biodegradeable.

Bioaccumulative potential
Data not available

Mobility in Soil
Data not available

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).
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
UN2735

UN proper shipping name
Polyamines, liquid, corrosive, n.o.s (2,4,6-TRIS (DIMETHYLAMINOMETHYL) Phenol)

Transport hazard class(s)
8

Packing group
II

Environmental hazards
Yes

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

Changes from previous version (version 2):

a) Correction of spelling errors in various sections. No changes to technical content
b) Section 2 Labelling information in accordance with both CHIP and CLP regulations now provided

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.