

CODE A1

Product Safety Data Sheet

1. Identification of the preparations and company.

Product details: Epoxy binder

Trade names: ARDEX PSRS part A

Manufacturer: ARDEX UK Limited
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Haverhill
Suffolk
CB9 8QP
England

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Health and Safety contact: Mr C Potter

2. Composition/information on ingredients.

Dangerous Component	CAS No.	EINECS Nr.	Classification	Risk Phrases	Content
Bisphenol A (Epichlorhydrin) Epoxy resin MW<700	25068-38-6	500-033-5	Xi, N	R 36/38-43-51/53	50-100%
Hexanedioldiglycidyl ether	16096-31-4	240-260-4	Xi	R 36/38-43-52/53	25-50%

The full text for all R-phrases are displayed in section 16.

3. Hazards identification.

Hazard designation: Xi - Irritant, N - Dangerous for the environment.

Hazard to man and the environment:

R36/38 Irritating to eyes and skin.

R43 May cause sensitisation by skin contact.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Contains epoxy constituents. See information supplied by the manufacturer.

Classification system: The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

4. First aid measures.

General information: Instantly remove any clothing soiled by the product.

After inhalation: Take affected persons into the open air and position comfortably.

After skin contact: Instantly wash with water and soap and rinse thoroughly.

After eye contact: Rinse opened eye for several minutes under running water. Then consult doctor.

After swallowing: Seek immediate medical advice.

Information for doctor: No particular measures are known - treat according to symptoms.



5. Fire-fighting measures.

Suitable extinguishing agents: CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

For safety reasons unsuitable extinguishing agents: Water with a full water jet.

Special hazards caused by the material, its products of combustion or resulting gases: Formation of toxic gases is possible during heating or in case of fire.

Protective equipment: Put on breathing apparatus.

Additional information: Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6. Accidental release measures.

Personal safety precautions: Ensure adequate ventilation. Wear protective clothing.

Measures for environmental protection: Prevent material from reaching sewage system, holes and cellars.

Measures for cleaning/collecting: Absorb with liquid binding material (sand, diatomite, acid binders, universal binders, sawdust).

Additional information: Clean the accident area carefully.

7. Handling and Storage.

Handling:

Information for safe handling: Keep containers tightly sealed.

Information about protection against explosions and fires: No special measures required.

Storage:

Requirements to be met by storerooms and containers: Keep containers securely closed and dry, store at 15-20°C. Store only in the original container. Provide floor trough without outlet.

Information about storage in one common storage facility: Store away from foodstuffs.

Further information about storage conditions: Keep container tightly sealed.

Storage class:

Class according to regulation on inflammable liquids: Void

8. Exposure controls/personal protection.

Additional information about design of technical systems: No further data; see item 7.

Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: The lists that were valid during the compilation were used as a basis.

Personal protective equipment

General protective and hygienic measures: Keep away from foodstuffs, beverages and food. Wash hands during breaks and at the end of the work. Avoid contact with the eyes and skin.

Breathing equipment: Short term filter device.

Recommended filter device for short term use: Filter AX

Protection of hands: Plastic gloves. Only use chemical-protective gloves with the CE-labelling of category III.

To minimise the wetness in the glove due to perspiration changing of gloves during a shift is required. Check the permeability prior to each renewed use of the glove. Preventative skin protection by use of skin-protecting agents is recommended.



Material of gloves: Nitrile rubber, NBR. Fluorocarbon rubber (Viton). PVC gloves. Recommended thickness of the material: $\geq 0.5\text{mm}$.

Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable: PVC gloves.

As protection from splashes gloves made of the following materials are suitable: PVC gloves.

Not suitable are gloves made of the following materials: Leather gloves. Strong gloves.

Eye protection: Tightly sealed safety glasses.

Body protection: Protective work clothing.

9. Physical and chemical properties.

Form: Fluid.

Colour: Yellowish.

Smell: Characteristic.

Change in condition:

Melting point/Melting range: Not determined.

Boiling point/Boiling range: $>200^{\circ}\text{C}$.

Flash point: $> 150^{\circ}\text{C}$ (DIN 53213).

Self-inflammability: $>$ Product is not self igniting.

Danger of explosion: Product is not explosive.

Density at 23°C : ca. $1.11\text{g}/\text{cm}^3$ (DIN 51757).

Solubility in/Miscibility in water: Not miscible or difficult to mix.

Viscosity dynamic at 23°C : ca. 120mPas (DIN 53788).

Solvent content - Organic solvents: 0.0%.

Solids content: 100%.

10. Stability and reactivity.

Thermal decomposition/conditions to be avoided: No decomposition if used according to specifications.

Materials to be avoided: Strong oxidising agents.

Dangerous reactions: Reacts with strong oxidising agents, alkali, amines and acids.

Dangerous products of decomposition: None if stored and handled correctly.

In the event of fire: toxic gases and vapours.

11. Toxicological information.

Acute toxicity:

LD/LC50 values that are relevant for classification:

25068-38-6 reaction product

Dermal	LD50	$> 2000\text{ mg}/\text{kg}$ (rab)
		$11400\text{ mg}/\text{kg}$ (rat)

16096-31-4 Hexanedioldigycidyl ether

Oral	LD50	$8500\text{ mg}/\text{kg}$ (rat)
Dermal	LD50	$> 4950\text{ mg}/\text{kg}$ (rat)

**Primary irritant effect:****On the skin:** Irritant to skin and mucous membranes.**On the eye:** Irritant effect.**Sensitisation:** Sensitisation possible by skin contact.**Additional toxicological information:** The product shows the following dangers according to the calculation of the General EC Classification Guidelines for Preparations as issued in the latest version: Irritant.**12. Ecological information.****Ecotoxicological effects:** Not determined.**Remark:** Toxic for fish.**General notes:** Water hazard class 2 (self-assessment): Hazardous for water.

Do not allow product to reach ground water, water bodies or sewage system. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms.

13. Disposal considerations.**Product:****Recommendation:** For disposal, local regulations issued by the authorities must be observed. Dispose of liquid components at a suitable incineration plant. After curing, the product can be disposed of with household waste.**European waste catalogue:**

08 00 00 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS.

08 02 00 Wastes from MFSU of other coatings (including ceramic materials).

08 02 99 Wastes not otherwise specified.

Uncleaned packagings:**Recommendation:** Disposal must be made according to official regulations.**14. Transport information.****Land transport ADR/RID (cross-border):****ADR/RID-GGVS/E Class:** 9 miscellaneous dangerous substances with articles.**Kemler number:** 90**UN number:** 3082**Packaging group:** III**Label:** 9**Designation of goods:** 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product).**Maritime transport IMDG:****IMDG Class:** 9**UN number:** 3082**Label:** 9**Packaging group:** III**Marine pollutant:** No**Correct technical name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product).



Air transport ICAO-TI and IATA-DGR:

ICAO/IATA class: 9
UN/ID number: 3082
Label: 9
Packaging group: III

Correct technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product).

15. Regulatory information.

Designation according to EC guidelines: The product has been classified and labelled in accordance with EC Directives/Ordinance on Hazardous Materials.

Code letter and hazard designation of product: Xi Irritant, N Dangerous for the environment.

Hazard determining components of labelling: Reaction product. Hexanedioldigycidyl ether.

Risk phrases:	36/38 43 51/53	Irritating to eyes and skin. May cause sensitisation by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Safety phrases:	24 26 28 37/39 57 60	Avoid contact with skin. 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 water. Wear suitable gloves and eye/face protection. Use appropriate container to avoid environmental contamination This material and its container must be disposed of as hazardous waste.

Special designation of certain preparations: Contains epoxy constituents. See information supplied by the manufacturer.

National regulations:

Classification according to VbF: Void

Water hazard class: Water hazard class 2 (Self-assessment): Hazardous for water.

16. Other information.

Use only for the purposes intended. This information is based on our present state of knowledge and is intended to describe our products from the point of view of the safety requirement. It should not be construed as guaranteeing specific properties.

Revision date: February 2005

Revision comment: Issue 1

Relevant R-phrases:

- 36/38 Irritating to eyes and skin.
- 43 May cause sensitisation by skin contact.
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

