

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or designation of the mixture	DB-22 CAT
Registration number	-
Synonyms	None.
Product code	803-0018
Issue date	19-September-2013
Version number	01
Revision date	15-November-2012
Supersedes date	15-November-2012

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

Identified uses	Industrial Leak Sealant
Uses advised against	None known.

1.3. Details of the supplier of the safety data sheet

Supplier

Company name	Team Industrial Services, Inc.
Address	Postbus 37 4380 AA Vlissingen 3237 The Netherlands
Telephone	+31 (0) 118 48 58 00 Fax +31 (0) 118 48 58 86
e-mail	Not available.
Contact person	Not available.

1.4. Emergency telephone number +1 703-527-3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

Classification Xi;R36/38, R43, N;R51/53

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

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards

Skin corrosion/irritation	Category 2	H315 - Causes skin irritation.
Serious eye damage/eye irritation	Category 2	H319 - Causes serious eye irritation.
Skin sensitisation	Category 1	H317 - May cause an allergic skin reaction.

Environmental hazards

Hazardous to the aquatic environment, long-term aquatic hazard	Category 2	H411 - Toxic to aquatic life with long lasting effects.
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Hazard summary

Physical hazards	Not classified for physical hazards.
Health hazards	Irritating to eyes and skin. May cause sensitisation by skin contact.
Environmental hazards	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Specific hazards	May cause sensitisation by skin contact. Irritating to skin. Irritating to eyes.
Main symptoms	Causes eye irritation. Symptoms include itching, burning, redness and tearing. Causes skin irritation. Symptoms may include redness, drying and cracking of the skin. May cause sensitisation by skin contact. May cause respiratory tract irritation. Ingestion may cause irritation and malaise.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended**Contains:** Bisphenol A/ epichlorohydrin epoxy resin**Hazard pictograms****Signal word** Warning
Hazard statements
 H315 - Causes skin irritation.
 H319 - Causes serious eye irritation.
 H317 - May cause an allergic skin reaction.
 H411 - Toxic to aquatic life with long lasting effects.
Precautionary statements
Prevention
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.
 P272 - Contaminated work clothing should not be allowed out of the workplace.
 P273 - Avoid release to the environment.
Response
 P302 + P352 - IF ON SKIN: Wash with plenty of soap and 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.
 P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention.
Storage
 None.
Disposal
 P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.
Supplemental label information Contains epoxy constituents. May produce an allergic reaction.**2.3. Other hazards** Not a PBT or vPvB substance or mixture.**SECTION 3: Composition/information on ingredients****3.2. Mixtures****General information**

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Bisphenol A/ epichlorohydrin epoxy resin	70-100	25068-38-6 500-033-5	-	603-074-00-8	
Classification:		DSD: Xi;R36/38, R43, N;R51/53			
		CLP: Skin Irrit. 2;H315, Skin Sens. 1;H317, Eye Irrit. 2;H319, Aquatic Chronic 2;H411			

 DSD: Directive 67/548/EEC.
 CLP: Regulation No. 1272/2008.
Composition comments The full text for all R-phrases is displayed in Section 16. All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.**SECTION 4: First aid measures****General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.**4.1. Description of first aid measures**
Inhalation
 In case of discomfort, move to fresh air. Get medical attention, if needed.
Skin contact
 Remove contaminated clothing. Wash immediately with soap and water for at least 15 minutes. Get medical attention promptly if symptoms persist or occur after washing. Discard contaminated shoes and clothing.
Eye contact
 Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
Ingestion
 Get medical attention if any discomfort occurs.
4.2. Most important symptoms and effects, both acute and delayed Causes eye irritation. Symptoms include itching, burning, redness, and tearing of eyes. Causes skin irritation. Symptoms may include redness, drying and cracking of the skin. May cause sensitisation by skin contact.**4.3. Indication of any immediate medical attention and special treatment needed** Provide general supportive measures and treat symptomatically.**SECTION 5: Firefighting measures****General fire hazards** The product is not flammable. However: Will burn if strongly heated and when involved in fire.

5.1. Extinguishing media

Suitable extinguishing media Dry chemical powder. Carbon dioxide (CO₂). Foam.

Unsuitable extinguishing media Water may be ineffective.

5.2. Special hazards arising from the substance or mixture During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters Self-contained breathing apparatus, operated in positive pressure mode and full protective clothing must be worn in case of fire.

Special fire fighting procedures Evacuate area and fight fire from a safe distance. Stop leak if you can do so without risk. Withdraw immediately in case of rising sound from venting safety device or any discolouration of tanks due to fire.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Avoid contact with skin and eyes. For personal protection, see section 8.

For emergency responders Keep unnecessary personnel away.

6.2. Environmental precautions Prevent entry into waterways, sewer, basements or confined areas. Environmental manager must be informed of all major spillages.

6.3. Methods and material for containment and cleaning up Collect and dispose of spillage as indicated in Section 13. Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Wipe up with absorbent material (e.g. cloth, fleece). Should not be released into the environment. Never return spills in original containers for re-use. Prevent product from entering drains.

6.4. Reference to other sections For personal protection, see section 8. For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling Avoid contact with skin and eyes. Wear personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices. Avoid release to the environment.

7.2. Conditions for safe storage, including any incompatibilities Avoid heat, sparks, open flames and other ignition sources. Store in tightly closed original container. Store in a cool and well-ventilated place. Store away from incompatible materials.

7.3. Specific end use(s) Industrial Leak Sealant

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits No exposure limits noted for ingredient(s).

Biological limit values No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures Not available.

Derived no-effect level (DNEL)

Components	Type	Route	Value	Form
Bisphenol A/ epichlorohydrin epoxy resin (CAS 25068-38-6)	Workers	Dermal	8,33 mg/kg/day	Acute Systemic effects
		Dermal	8,33 mg/kg/day	Long term Systemic effects
		Inhalation	12,25 mg/m ³	Acute Systemic effects
		Inhalation	12,25 mg/m ³	Long term Systemic effects

Predicted no effect concentrations (PNECs)

Components	Type	Route	Value	Form
Bisphenol A/ epichlorohydrin epoxy resin (CAS 25068-38-6)	Aqua (freshwater)	Not applicable	0,006 mg/l	
	Aqua (intermittent releases)	Not applicable	0,018 mg/l	
	Aqua (marine water)	Not applicable	0,0006 mg/l	
	Oral	Not applicable	11 mg/kg	
	Sediment (freshwater)	Not applicable	0,996 mg/l	
Sediment (marine water)	Not applicable	0,0996 mg/l		

Components	Type	Route	Value	Form
	Sewage Treatment Plant	Not applicable	10 mg/l	
	Soil	Not applicable	0,196 mg/l	

8.2. Exposure controls

Appropriate engineering controls

General ventilation normally adequate. Ensure adequate ventilation, especially in confined areas. Provide easy access to water supply and eye wash facilities.

Individual protection measures, such as personal protective equipment

General information

Use personal protective equipment as required. Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Eye/face protection

Wear approved chemical safety goggles. Use face shield in case of splash risk.

Skin protection

- Hand protection

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier. Be aware that the liquid may penetrate the gloves. Frequent change is advisable.

- Other

Wear chemical-resistant gloves, footwear and protective clothing appropriate for risk of exposure. Contact chemical protective clothing manufacturer for specific information.

Respiratory protection

No personal respiratory protective equipment normally required.

In case of inadequate ventilation, use respiratory protection. Use respiratory equipment with combination filter, type A2/P2.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

Hygiene measures

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Environmental exposure controls

Environmental manager must be informed of all major spillages.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Colourless liquid.
Physical state	Liquid.
Form	Liquid.
Colour	Colourless.
Odour	Slight.
Odour threshold	Not available.
pH	Not applicable.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	> 260 °C (> 500 °F)
Flash point	> 110 °C (> 230 °F)
Evaporation rate	Very slow.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapour pressure	0,03 mm Hg
Vapour density	Not applicable.
Relative density	1,16 - 1,19 (Water=1) at 25°C (77°F)
Solubility(ies)	Slightly soluble (in water).
Partition coefficient (n-octanol/water)	Not available.
Decomposition temperature	Not available.
Viscosity	Not applicable.
Explosive properties	Not available.
Oxidizing properties	Not available.

9.2. Other information No relevant additional information available.

SECTION 10: Stability and reactivity

10.1. Reactivity The product is stable and non reactive under normal conditions of use, storage and transport.

10.2. Chemical stability The product is stable under normal conditions of use, storage and transport.

10.3. Possibility of hazardous reactions Hazardous polymerisation does not occur.

10.4. Conditions to avoid Exposure to heat and contact with sources of ignition. Contact with incompatible materials.

10.5. Incompatible materials Strong oxidising agents. Strong acids. Amines. Strong alkalis.

10.6. Hazardous decomposition products During combustion: Carbon oxides. Chlorine compounds.

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Ingestion Ingestion may cause irritation and malaise. May be harmful if swallowed.

Inhalation May cause irritation of nose, throat and mucous membranes.

Skin contact Causes skin irritation. Prolonged contact may cause redness, irritation and dry skin. May cause sensitisation by skin contact.

Eye contact Causes eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Symptoms Skin. Causes skin irritation. Symptoms may include redness, drying and cracking of the skin. Sensitisation.

Eyes. Causes eye irritation. Contact may cause irritation with redness, tearing and pain.

11.1. Information on toxicological effects

Acute toxicity Causes skin and eye irritation.

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation Not available.

Respiratory sensitisation Not available.

Skin sensitisation Not available.

Germ cell mutagenicity Not classified.

Carcinogenicity Not available.

Reproductive toxicity Not classified.

Specific target organ toxicity - single exposure Not available.

Specific target organ toxicity - repeated exposure Not available.

Aspiration hazard Not classified.

Mixture versus substance information Not available

Other information Not available.

SECTION 12: Ecological information

12.1. Toxicity Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Components	Species	Test results	
Bisphenol A/ epichlorohydrin epoxy resin (CAS 25068-38-6)			
Fish	LC50	Salmo gairdneri	1,5 mg/l, 96 hours
Aquatic			
Crustacea	EC50	Daphnia magna	2,7 mg/l, 48 hours

12.2. Persistence and degradability Expected to be persistent.

12.3. Bioaccumulative potential The product is not expected to bioaccumulate.

Partition coefficient n-octanol/water (log Kow) Not available.

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil Not available.

12.5. Results of PBT and vPvB assessment Not a PBT or vPvB substance or mixture.

12.6. Other adverse effects Toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Dispose of in accordance with local regulations.

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied.

EU waste code Not available.

Disposal methods/information Dispose in accordance with all applicable regulations. Do not allow runoff to sewer, waterway or ground.

SECTION 14: Transport information

ADR

14.1. UN number UN3082

14.2. UN proper shipping name Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A/ epichlorohydrin epoxy resin)

14.3. Transport hazard class(es) 9

Subsidiary class(es) -

14.4. Packing group III

14.5. Environmental hazards No

Tunnel restriction code Not available.

Labels required 9

14.6. Special precautions for user Not available.

RID

14.1. UN number UN3082

14.2. UN proper shipping name Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A/ epichlorohydrin epoxy resin)

14.3. Transport hazard class(es) 9

Subsidiary class(es) -

14.4. Packing group III

14.5. Environmental hazards No

Labels required 9

14.6. Special precautions for user Not available.

ADN

14.1. UN number UN3082

14.2. UN proper shipping name Environmentally Hazardous Liquid, N.o.s.

14.3. Transport hazard class(es) 9

Subsidiary class(es) -

14.4. Packing group III

14.5. Environmental hazards No

Labels required 9

14.6. Special precautions for user Not available.

IATA

14.1. UN number UN3082

14.2. UN proper shipping name Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A/ epichlorohydrin epoxy resin)

14.3. Transport hazard class(es) 9

Subsidiary class(es) -

14.4. Packing group III

14.5. Environmental hazards Not available.

Labels required Not available.

ERG Code 9L

14.6. Special precautions for user Not available.

IMDG

14.1. UN number	UN3082
14.2. UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A/ epichlorohydrin epoxy resin), Marine pollutant
14.3. Transport hazard class(es)	9
Subsidiary class(es)	-
14.4. Packing group	III
14.5. Environmental hazards	
Marine pollutant	Yes
Labels required	Not available.
EmS	F-A, S-F
14.6. Special precautions for user	Not available.
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	This substance/mixture is not intended to be transported in bulk.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I

Not listed.

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II

Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA

Not listed.

Authorisations

Regulation (EC) No. 143/2011 Annex XIV Substances Subject to Authorisation

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work

Not regulated.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding

Not regulated.

Other EU regulations

Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances

Not regulated.

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Bisphenol A/ epichlorohydrin epoxy resin (CAS 25068-38-6)

Directive 94/33/EC on the protection of young people at work

Bisphenol A/ epichlorohydrin epoxy resin (CAS 25068-38-6)

Other regulations

This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

National regulations Not available.

15.2. Chemical safety assessment Not available.

SECTION 16: Other information

List of abbreviations Not available.

References Not available.

Information on evaluation method leading to the classification of mixture Not available.

Full text of any statements or R-phrases and H-statements under Sections 2 to 15

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.
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H411 - Toxic to aquatic life with long lasting effects.

Training information Not available.

Disclaimer This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.