

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier	
Product Name	ABRO Epoxy Steel Adhesive (Hardener)
Product code	ES-506
Unique Formula Identifier (UFI)	JXF0-X0SX-M00P-G611
1.2 Relevant identified uses of the s	ubstance or mixture and uses advised against
Identified Use(s)	Adhesives.
Uses Advised Against	Not known.
1.3 Details of the supplier of the safe	ety data sheet
Manufacturer	
Company Identification	ABRO Industries Inc
Address of Manufacturer	3580 Blackthorn Court
	South Bend
	USA
Postal code	46628
Telephone:	+1 574-232-8289
Fax	Not known.
E-mail	abro@abro.com
Office hours	
Supplier	
Company Identification	Granville Oil & Chemicals Ltd
Address of Supplier	29 Goldthorpe Ind. Est.,
	Goldthorpe,
	Rotherham,
	South Yorkshire,
Postal code	S63 9BL
Telephone:	+44 (0)1709 890099
Fax	Not known.
E-mail	lab@granvilleoil.com
Office hours	08:00 - 17:00
1.4 Emergency telephone number	
Emergency Phone No.	+44 111
National response centre	NHS Direct

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Regulation (EC) No. 1272/2008 (CLP)	Acute Tox. 4 :Harmful if swallowed.
	Skin Corr. 1B :Causes severe skin burns and eye damage.
	Skin Sens. 1A :May cause an allergic skin reaction.
	Eye Dam. 1 :Causes serious eye damage.
	Repr. 2 :Suspected of damaging fertility. Suspected of damaging the unborn



Date of Revision: 10-02-2023

ABRO Epoxy Steel Adhesive (Hardener)

	child. Aquatic Chronic	2 :Toxic to aquatic	life with long lasting	g effects.	
2.2 Label elements					
	According to Reg	ulation (EC) No. 12	272/2008 (CLP)		
Product Name	ABRO Epoxy Ste	el Adhesive (Harde	ner)		
Contains	Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine. 2,4,6-tris(dimethylaminomethyl)phenol. nonylphenol				
Hazard Pictogram(s)					
	GHS05	GHS08	GHS07	GHS09	
Signal Word(s)	Danger				
Hazard Statement(s)	H302: Harmful if swallowed. H314: Causes severe skin burns and eye damage.				
	H317: May cause an allergic skin reaction.				
	H361fd: Suspecte	ed of damaging fert	ility. Suspected of d	amaging the unborn child.	
	H411: Toxic to ac	uatic life with long	lasting effects.		
Precautionary Statement(s)	 P101: If medical advice is needed, have product container or label at hand. P102: Keep out of reach of children. P260: Do not breathe dust/fume/gas/mist/vapours/spray. P264: Wash hands and exposed skin thoroughly after handling. P280: Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with 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. 				
Unique Formula Identifier (UFI) 2.3 Other hazards	JXF0-X0SX-M00P-G611				
	This product contains: 25154-52-3 (Endocrine disrupting properties)				
2.4 Additional Information	For full text of H,	/P Statements see	section 16.		

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable.



3.2 Mixtures

HAZARDOUS INGREDIENT(S)	CAS No.	EC No. / REACH Registration No.	%W/W	Hazard Statement(s)	Hazard Pictogram(s)
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	68082-29-1		20-50	Skin Irrit. 2 H315 Skin Sens. 1A H317 Eye Dam. 1 H318 Aquatic Chronic 2 H411	GHS05 GHS07 GHS09
Talc (Mg3H2(SiO3)4)	14807-96-6		10-35	Not classified	None
2,4,6-tris(dimethylaminomethyl)phenol	90-72-2	202-013-9	5-15	Acute Tox. 4 H302 Skin Irrit. 2 H315 Eye Irrit. 2 H319	GHS07
nonylphenol	25154-52-3	246-672-0	3-13	Acute Tox. 4 H302 Skin Corr. 1B H314 Repr. 2 H361fd Aquatic Acute 1 H400 Aquatic Chronic 1 H410	GHS05 GHS08 GHS07 GHS09
Limestone	1317-65-3		5-25	Not classified	None
barium sulfate	7727-43-7		10-35	Not classified	None

HAZARDOUS INGREDIENT(S)	CAS No.	Specific Concentration Limit	M-factor	ATE
2,4,6-tris(dimethylaminomethyl)phenol	90-72-2			Acute Tox. 4 (H302) : 500
nonylphenol	25154-52-3			Acute Tox. 4 (H302) : 500

Contains no non-classified vPvB substances.

Contains a non-classified substance with a Union workplace exposure limit. Calcium carbonate inhalable dust (1317-65-3) Barium sulphate inhalable dust (7727-43-7) Talc, respirable dust (14807-96-6)

For full text of H/P Statements see section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures



SAFETY DATA SHEET

ABRO Epoxy Steel Adhesive (Hardener)

Inhalation	Immediately call a POISON CENTRE/doctor.			
Skin Contact	Take off immediately all contaminated clothing and wash it before reuse. If skin			
	irritation or rash occurs: Get medical advice/attention. Specific treatment (see			
	Medical Advice on this label). Rinse skin with water. Immediately call a POISON			
	CENTRE/doctor.			
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if			
	present and easy to do. Continue rinsing. Immediately call a POISON			
	CENTRE/doctor.			
Ingestion	Rinse mouth. Do NOT induce vomiting. Immediately call a POISON			
	CENTRE/doctor.			
4.2 Most important symptoms and ef	ifects, both acute and delayed			
	Causes burns. Allergic contact dermatitis.			
4.3 Indication of any immediate medical attention and special treatment needed				
	Specific treatment (see Medical Advice on this label). Immediately call a POISON			

CENTRE/doctor. Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media	
Suitable Extinguishing media	Carbon dioxide, dry chemical, foam.
Unsuitable extinguishing media	None Known.
5.2 Special hazards arising from the	substance or mixture
	Hazardous combustion products: May include and are not limited to: Oxides of
	carbon. Oxides of nitrogen. Oxides of Sulphur.
5.3 Advice for firefighters	
	Fire fighters should wear complete protective clothing including self-contained
	breathing apparatus. Dike fire control water for later disposal.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

6.2 Environmental precautions	Do not touch or walk-through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak. Provide adequate ventilation. Ensure full personal protection (including respiratory protection) during removal of spillages.
0.2 Environmental precautions	Browent entry into waterways, cowers, becoments or confined areas
	Prevent entry into waterways, sewers, basements or confined areas.
	Spillages or uncontrolled discharges into watercourses must be alerted to the
	appropriate regulatory body.
6.3 Methods and material for contain	ment and cleaning up
	Stop the flow of material if this is without risk.
	Before attempting clean up, refer to hazard data given above. Dampen material
	with water and use shovel or scoop to collect material in clean container for
	proper disposal. Rinse area with water. Prevent large spills from entering sewers
	or waterways. Contact emergency services and supplier for advice.
6.4 Reference to other sections	
	See Also Section 8, 13.



SECTION 7: HANDLING AND STORAGE

	Obtain special instructions before use. Do not handle until all safety precautions
	have been read and understood. Avoid breathing
	dust/fume/gas/mist/vapours/spray. Wash hands and exposed skin thoroughly
	after handling. Do not eat, drink or smoke when using this product. Wear
	protective gloves/protective clothing/eye protection/face protection. Use good
	industrial hygiene practices in handling this material. Avoid contact with eyes,
	skin and clothing. Avoid prolonged or repeated skin contact with this material.
.2 Conditions for safe storage	, including any incompatibilities
	Keep out of reach of children. Store in a tightly closed container in a dry, cool,
	well-ventilated place. Keep away from incompatible materials such as strong
	oxidizing agents, bases, acids, amines.
7.3 Specific end use(s)	
	Adhesives.

8.1 Control parameters

8.1.1 Occupational Exposure Limits

Occupational Exposure Limits						
SUBSTANCE.	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note
Calcium carbonate inhalable dust	1317-65-3		10			
Calcium carbonate respirable dust	1317-65-3		4			
Limestone total inhalable	1317-65-3		10			
Limestone respirable	1317-65-3		4			
Marble total inhalable	1317-65-3		10			
Marble respirable	1317-65-3		4			
Barium sulphate inhalable dust	7727-43-7		10			
Barium sulphate respirable dust	7727-43-7		4			
Talc, respirable dust	14807-96-6		1			

Region United Kingdom

Source om UK Workplace Exposure Limits EH40/2005 (Fourth edition, published 2020)

Remark Notes

8.2 Exposure controls



8.2.1. Appropriate engineering controls Use with ventilation, local exhaust ventilation or breathing protection. A washing facility/water for eye and skin cleaning purposes should be present.

8.2.2. Personal protection equipment

Eye Protection	Wear eye protection with side protection (EN166).
Skin protection	Wear protective clothing and gloves: Impervious gloves (EN 374).
Respiratory protection	Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.
Thermal hazards	None known.

8.2.3. Environmental Exposure Controls Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

chemical properties
Liquid.
Dark brown coloured liquid.
Mild odour
Not known.
> 232° C (>450° F).
Not known.
Not known.
Closed cup: >93.3° C (>199.9° F) [Pensky-Martens.
Not known.
Not known.
Not known.
Not known.
Solubility (Water) : Not known.
Solubility (Other) : Not known.
Not known.
Not known.
1.5 - 1.7
> 1
Not known.
None.



SECTION 10: STABILITY AND REACTIVITY

ABRO Epoxy Steel Adhesive (Hardener)

10.1 Reactivity		
	None anticipated.	
10.2 Chemical Stability		
	Stable under normal conditions.	
10.3 Possibility of hazardous reactions		
	No hazardous reactions known if used for its intended purpose.	
10.4 Conditions to avoid		
	Excessive heat.	
10.5 Incompatible materials		
	Strong oxidizing agents, bases, acids, amines.	
10.6 Hazardous decomposition products		
	Carbon oxides.	

SECTION 11: TOXICOLOGICAL INFORMATION

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

Acute toxicity - Ingestion	Calculation method : Harmful if swallowed.
	Calculation method : Calculated acute toxicity estimate (ATE) Calc ATE -
	1785.71
Acute toxicity - Skin Contact	Calculation method : Not classified.
Acute toxicity - Inhalation	Calculation method : Not classified.
Skin corrosion/irritation	Calculation method : Causes severe skin burns and eye damage.
Serious eye damage/irritation	Calculation method : Causes serious eye damage.
Skin sensitization data	Calculation method : May cause an allergic skin reaction.
Respiratory sensitization data	Calculation method : Not classified.
Germ cell mutagenicity	Calculation method : Not classified.
Carcinogenicity	Calculation method : Not classified.
Reproductive toxicity	Calculation method : Suspected of damaging fertility. Suspected of damaging the unborn child.
Lactation	Calculation method : Not classified.
STOT - single exposure	Calculation method : Not classified.
STOT - repeated exposure	Calculation method : Not classified.
Aspiration hazard	Calculation method : Not classified.
11.2 Information on other hazards	
	Endocrine disrupting properties: List I: Substances identified as endocrine

disruptors at EU level 25154-52-3 (Human health)

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

	Toxic to aquatic life. Toxic to aquatic life with long lasting effects.
Toxicity - Aquatic invertebrates	Not known.
Toxicity - Fish	Not known.



Toxicity - Algae	Not known.
Toxicity - Sediment Compartment	Not classified.
Toxicity - Terrestrial Compartment	Not classified.
12.2 Persistence and degradability	
	Not known.
12.3 Bioaccumulative potential	
	Not known.
12.4 Mobility in soil	
	Not known.
12.5 Results of PBT and vPvB assess	ment
	Not known.
12.6 Endocrine disrupting properties	
	Listed in: List I: Substances identified as endocrine disruptors at EU level 25154-
	52-3 (Environment)
12.7 Other adverse effects	
	Not known.
SECTION 13: DISPOSAL CONSIDERATION	ONS
13.1 Waste treatment methods	
	Dispose of contents in accordance with local, state or national legislation. Send
	to a licensed recycler, reclaimer or incinerator. Dispose of this material and its
	container to hazardous or special waste collection point. Dispose at suitable
	refuse site.
13.2 Additional Information	
	Disposal should be in accordance with local, state or national legislation.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number or ID number	
UN No.	2735
14.2 UN proper shipping name	
UN proper shipping name	POLYAMINES, LIQUID, CORROSIVE, N.O.S.
14.3 Transport hazard class(es)	
ADR/RID	
ADR/RID Class	8
ADR Classification Code	C7
Special Provisions	274
Limited Quantities	5 L
Excepted Quantities	E1
Emergency Action Code	2X
Mixed Packing Instructions for	P001 IBC03 LP01 R001
Packages	
Special Packing Provisions for	
Packages	



Mixed Packing Instructions for Packages	MP19
Packing Instructions for Portable Tanks	Т7
Special Provisions for Portable Tanks	TP1 TP28
Tank Code for Tanks	L4BN
Special Provisions for Tanks	
Vehicle for Tank Carriage	AT
ADR Transport Category	3
Tunnel Restriction Code	E
Special Provisions for Carriage -	V12
Packages	
Special Provisions for Carriage - Bulk	
Special Provisions for Carriage -	
Loading, Unloading and Handling	
Special Provisions for Carriage -	
Operation	
ADR HIN	80
IMDG	
IMDG Class	8
Special Provisions	274
Limited Quantities	5 L
Excepted Quantities	E1
Mixed Packing Instructions for	P001 IBC03 LP01 R001
Packages	
Special Packing Provisions for	
Packages	
Packing Instructions for Portable Tanks	
Special Provisions for Portable Tanks	TP1 TP28
IMDG EMS	F-A, S-B
Stowage and Handling	Category A
Segregation	SGG18 SG35
Marine Pollutant	
ICAO/IATA	
IATA Proper Shipping Name Excepted Quantities	POLYAMINES, LIQUID, CORROSIVE, N.O.S. E1
Passenger and Cargo Aircraft Limited	Y841
Quantities Packing Instructions	1011
Passenger and Cargo Aircraft Limited	1L
Quantities Max net Qty	
Passenger and Cargo Aircraft Packing	852
Instructions	
Passenger and Cargo Aircraft Max net	5L
Qty	
Cargo Aircraft Packing Instructions	856
Cargo Aircraft Max net Qty	60L
Special Provisions	A3, A803



Emergency Response Guidebook (ERG) Code	8L
Labels	
Labels	8
14.4 Packing group Packing group	
14.5 Environmental hazards	
Environmental hazards	Classified as a Marine Pollutant.
14.6 Special precautions for user	
Special precautions for user	Not known.
14.7 Maritime transport in bulk accor	ding to IMO instruments
	No information available

SECTION 15: REGULATORY INFORMATION

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

15.1 Salety, nearth and environmental	regulations/ registration specific for the substance of mixture
European Regulations - Authorisations	and/or Restrictions On Use
Candidate List of Substances of Very	Not listed
High Concern for Authorisation	
REACH: ANNEX XIV list of substances	Not listed
subject to authorisation	
REACH: Annex XVII Restrictions on the	Nonylphenol C6H4(OH)C9H19 (25154-52-3), 2,4,6-
manufacture, placing on the market and	tris(dimethylaminomethyl)phenol (90-72-2), Fatty acids, C18-unsatd., dimers,
use of certain dangerous substances,	oligomeric reaction products with tall-oil fatty acids and triethylenetetramine
mixtures and articles	(68082-29-1)
Community Rolling Action Plan	Not listed
(CoRAP)	
Regulation (EU) N° 2019/1021 of the	Not listed
European Parliament and of the Council	
on persistent organic pollutants	
Regulation (EC) N° 1005/2009 on	Not listed
substances that deplete the ozone layer	
	Nonylphenols (25154-52-3)
European Parliament and of the Council	
concerning the export and import of	
hazardous chemicals	
National regulations	
Other	Not known.
15.2 Chemical Safety Assessment	
	A REACH chemical safety assessment has not been carried out.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements:



LEGEND

Hazard Pictogram(s)



Hazard classification	Acute Tox. 4 : Acute toxicity, Category 4 Skin Corr. 1B : Skin corrosion/irritation, Category 1B
	Skin Irrit. 2 : Skin corrosion/irritation, Category 2
	Skin Sens. 1A : Skin sensitization, Category 1A
	Eye Dam. 1 : Serious eye damage/irritation, Category 1
	Eye Irrit. 2 : Serious eye damage/irritation, Category 2
	Repr. 2 : Reproductive toxicity, Category 2
	Aquatic Acute 1 : Hazardous to the aquatic environment, Acute, Category 1
	Aquatic Chronic 1 : Hazardous to the aquatic environment, Chronic, Category 1
	Aquatic Chronic 2 : Hazardous to the aquatic environment, Chronic, Category 2
Hazard Statement(s)	H302: Harmful if swallowed.
	H314: Causes severe skin burns and eye damage.
	H315: Causes skin irritation.
	H317: May cause an allergic skin reaction.
	H318: Causes serious eye damage.
	H319: Causes serious eye irritation.
	H361fd: Suspected of damaging fertility. Suspected of damaging the unborn child.
	H400: Very toxic to aquatic life.
	H410: Very toxic to aquatic life with long lasting effects.
	H411: Toxic to aquatic life with long lasting effects.
Precautionary Statement(s)	P201: Obtain special instructions before use.
	P202: Do not handle until all safety precautions have been read and understood.
	P260: Do not breathe dust/fume/gas/mist/vapours/spray.
	P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
	P264: Wash hands and exposed skin thoroughly after handling.
	P270: Do not eat, drink or smoke when using this product.
	P272: Contaminated work clothing should not be allowed out of the workplace.
	P273: Avoid release to the environment.

	P280: Wear protective gloves/protective clothing/eye protection/face protection.
	P301+P312: IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.
	P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
	P302+P352: IF ON SKIN: Wash with plenty of water.
	P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for
	breathing. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313: IF exposed or concerned: Get medical advice/attention.
	P310: Immediately call a POISON CENTRE/doctor.
	P321: Specific treatment (see Medical Advice on this label).
	P330: Rinse mouth.
	P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
	P362+P364: Take off contaminated clothing and wash it before reuse.
	P363: Wash contaminated clothing before reuse.
	P391: Collect spillage.
	P405: Store locked up.
	P501: Dispose of contents in accordance with local, state or national legislation.
yms	ADN : European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
	ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road
	ATE : Acute Toxicity Estimate
	CAS : Chemical Abstracts Service CLP : Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
	DNEL : Derived No Effect Level EC : European Community
	EINECS : European Inventory of Existing Commercial Chemical Substances IATA : International Air Transport Association
	IBC : Intermediate Bulk Container ICAO : International Civil Aviation Organization
	IMDG : International Maritime Dangerous Goods
	LTEL : Long term exposure limit
	PBT : Persistent, Bioaccumulative and Toxic
	PNEC : Predicted No Effect Concentration
	REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals RID : Regulations concerning the International Carriage of Dangerous Goods by Rail
	STEL : Short term exposure limit
	STOT : Specific Target Organ Toxicity
	UN : United Nations

Acronyms



vPvB : very Persistent and very Bioaccumulative

Key literature references and sources for data used to compile the SDS Disclaimers Regulation (EC) No. 1272/2008 (CLP)

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ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier	
Product Name	ABRO Epoxy Steel Adhesive (Resin)
Product code	ES-506
Unique Formula Identifier (UFI)	P6G0-F0V4-J005-G6S7
1.2 Relevant identified uses of the s	ubstance or mixture and uses advised against
Identified Use(s)	Not known.
Uses Advised Against	Not known.
1.3 Details of the supplier of the safe	ety data sheet
Manufacturer	
Company Identification	ABRO Industries Inc
Address of Manufacturer	3580 Blackthorn Court
	South Bend
	USA
Postal code	46628
Telephone:	+1 574-232-8289
Fax	Not known.
E-mail	abro@abro.com
Office hours	
Supplier	
Company Identification	Granville Oil & Chemicals Ltd
Address of Supplier	29 Goldthorpe Ind. Est.,
	Goldthorpe,
	Rotherham,
	South Yorkshire,
Postal code	S63 9BL
Telephone:	+44 (0)1709 890099
Fax	Not known.
E-mail	lab@granvilleoil.com
Office hours	08:00 - 17:00
1.4 Emergency telephone number	
Emergency Phone No.	+44 111
National response centre	NHS Direct

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Regulation (EC) No. 1272/2008 (CLP)	Skin Irrit. 2 :Causes skin irritation.
	Skin Sens. 1 :May cause an allergic skin reaction.
	Eye Irrit. 2 :Causes serious eye irritation.
	STOT SE 3 : May cause respiratory irritation.



Date of Revision: 10-02-2023

ABRO Epoxy Steel Adhesive (Resin)

Aquatic Chronic 2 : Toxic to aquatic life with long lasting effects.

2.2 Label elements	
	According to Regulation (EC) No. 1272/2008 (CLP)
Product Name	ABRO Epoxy Steel Adhesive (Resin)
Contains	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average
	molecular weight \leq 700). 4,4'-methylenediphenol.
Hazard Pictogram(s)	
	\mathbf{V} $\mathbf{\nabla}$
	GHS07 GHS09
Signal Word(s)	Warning
Hazard Statement(s)	H315: Causes skin irritation.
	H317: May cause an allergic skin reaction.
	H319: Causes serious eye irritation.
	H335: May cause respiratory irritation.
	H411: Toxic to aquatic life with long lasting effects.
Precautionary Statement(s)	P101: If medical advice is needed, have product container or label at hand.
	P102: Keep out of reach of children.
	P271: Use only outdoors or in a well-ventilated area.
	P273: Avoid release to the environment.
	P280: Wear protective gloves/protective clothing/eye protection/face protection.
	P405: Store locked up.
Unique Formula Identifier (UFI)	P6G0-F0V4-J005-G6S7
2.3 Other hazards	1 000-1 004-3003-0037
	None known.
2.4 Additional Information	
	For full text of H/P Statements see section 16.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable.

3.2 Mixtures

HAZARDOUS INGREDIENT(S)	CAS No.	EC No. /	%W/WHazard Statement(s)	Hazard
		REACH		Pictogram(s)



		Registration No.			
reaction product: bisphenol-A- (epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)	25068-38-6	500-033-5	25-45	Skin Irrit. 2 H315 Skin Sens. 1 H317 Eye Irrit. 2 H319 Aquatic Chronic 2 H411	GHS07 GHS09
4,4'-methylenediphenol	620-92-8		10-35	Skin Irrit. 2 H315 Eye Irrit. 2 H319 STOT SE 3 H335 Aquatic Chronic 3 H412	GHS07
Talc (Mg3H2(SiO3)4)	14807-96-6		10-35	Not classified	None
triiron tetraoxide	1317-61-9		0.1-3	Not classified	None
Distillates (petroleum), hydrotreated light Kerosine - unspecified [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C9 through C16 and boiling in the range of approximately 150 ° C to 290 ° C (302 ° F to 554 ° F).]	64742-47-8		0.1-1	Asp. Tox. 1 H304	GHS08
Limestone	1317-65-3		5-25	Not classified	None
ron	7439-89-6		5-15	Not classified	None

HAZARDOUS INGREDIENT(S)	CAS No.	Specific Conce	ntration Limit	M-	ATE
				factor	
reaction product: bisphenol-A-(epichlorhydrin) epoxy	25068-38-6	Skin Irrit. 2	C>= 5.00 <=		
resin (number average molecular weight \leq 700)			100.00		
		Eye Irrit. 2	C>= 5.00 <=		
			100.00		

Contains no non-classified vPvB substances.

Contains a non-classified substance with a Union workplace exposure limit. Calcium carbonate inhalable dust (1317-65-3) Talc, respirable dust (14807-96-6)

For full text of H/P Statements see section 16.



SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures	
Inhalation	Remove person to fresh air and keep comfortable for breathing. Call a POISON
	CENTRE/doctor if you feel unwell.
Skin Contact	Wash contaminated skin with plenty of soap and water. Continue to rinse for at
	least 20 minutes. Take off immediately all contaminated clothing and wash it
	before reuse. If skin irritation occurs: Get medical advice/attention.
Eye Contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and
	lower eyelids. Check for and remove any contact lenses. Continue to rinse for at
	least 20 minutes. Get medical attention.
Ingestion	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air
	and keep at rest in a position comfortable for breathing. If material has been
	swallowed and the exposed person is conscious, give small quantities of water
	to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do
	not induce vomiting unless directed to do so by medical personnel. If vomiting
	occurs, the head should be kept low so that vomit does not enter the lungs. Get
	medical attention if adverse health effects persist or are severe. Never give
	anything by mouth to an unconscious person. If unconscious, place in recovery
	position and get medical attention immediately. Maintain an open airway.
	Loosen tight clothing such as a collar, tie, belt or waistband.
4.2 Most important symptoms and ef	fects, both acute and delayed
	May cause irritation. Allergic contact dermatitis. If ingested, Irritating to mouth,
	throat and stomach.
4.3 Indication of any immediate med	ical attention and special treatment needed
	Notes to physician: In case of inhalation of decomposition products in a fire,
	symptoms may be delayed. The exposed person may need to be kept under
	medical surveillance for 48 hours.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media	
Suitable Extinguishing media	Carbon dioxide, dry chemical, foam.
Unsuitable extinguishing media	None.
5.2 Special hazards arising from the	substance or mixture
	May decompose in a fire, giving off toxic and irritant vapours.
5.3 Advice for firefighters	
	Fire fighters should wear complete protective clothing including self-contained
	breathing apparatus. Dike fire control water for later disposal.
	Hazardous combustion products: May include and are not limited to: Oxides of
	carbon. Oxides of nitrogen. Oxides of Sulphur.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures



	Keep unnecessary personnel away. Do not touch or walk through spilled material. Ensure adequate ventilation. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.
6.2 Environmental precautions	away noni and upwind of spin/leak.
	Prevent entry into waterways, sewers, basements or confined areas. Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.
6.3 Methods and material for contain	
	Stop the flow of material if this is without risk.
	Before attempting clean up, refer to hazard data given above. Dampen material with water and use shovel or scoop to collect material in clean container for proper disposal. Rinse area with water. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice.
6.4 Reference to other sections	
	See Also Section 8, 13.
SECTION 7: HANDLING AND STORAGE	

7.1 Precautions for safe handling	
	Avoid breathing dust/fume/gas/mist/vapours/spray. Wash hands and exposed
	skin thoroughly after handling. Use only outdoors or in a well-ventilated area.
	Wear protective gloves/protective clothing/eye protection/face protection.
7.2 Conditions for safe storage, inclu	uding any incompatibilities
	Keep out of reach of children. Store in a tightly closed container in a dry, cool,
	well-ventilated place. Keep away from incompatible materials such as strong
	oxidizing agents, bases, acids, amines.
7.3 Specific end use(s)	
	Not known.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

Occupational Exposure Limits						
SUBSTANCE.	CAS No.	LTEL (8 hr TWA	LTEL (8 hr TWA	STEL	STEL	Note
		ppm)	mg/m³)	(ppm)	(mg/m³)	
Calcium carbonate inhalable	1317-65-3		10			
dust						
Calcium carbonate respirable	1317-65-3		4			
dust						
Limestone total inhalable	1317-65-3		10			
Limestone respirable	1317-65-3		4			
Marble total inhalable	1317-65-3		10			



Marble respirab	ole	1317-65-3		4			
Talc, respirable	dust	14807-96-6		1			
Region United Kingdom							
Remark	Notes						
8.2 Exposure c	ontrols						
8.2.1. Appropria	ate engineering o		adequate ventilation. s should be present.	A washing facility/wa	ter for eye a	and skin cleani	ng
8.2.2. Personal	protection equip	using do	t Handle in accordance with good industrial hygiene and safety practice. Wh using do not eat or drink. Wash hands before breaks and immediately after handling the product.			l	
	Eye Protection	Wear ey	e protection with sid	e protection (EN166).			
	Skin protection	Wear pr	otective clothing and	gloves: Impervious glo	oves (EN 37	4).	
	Respiratory prot		Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.		roved NIOSH		
	Thermal hazards	s None kn	None known.				

8.2.3. Environmental Exposure Controls Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Liquid.
Colour	Dark brown coloured liquid.
Odour	Mild odor.
Melting point/freezing point	Not known.
Boiling point or initial boiling point and	> 232° C (>450° F).
boiling range	
Flammability	Not known.
Lower and upper explosion limit	Not known.
Flash Point	Closed cup: >93.3°C (>199.9°F) [Pensky-Martens
Auto-ignition temperature	Not known.
Decomposition Temperature	Not known.
рН	Not known.
Kinematic Viscosity	Not known.



Solubility	Solubility (Water) : Not known. Solubility (Other) : Not known.
Partition coefficient n-octanol/water	Not known.
(log value)	
Vapour pressure	Not known.
Density and/or relative density	1.5 - 1.7.
Relative vapour density	> 1.
Particle characteristics	Not known.
9.2 Other information	
	None.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	
,	None anticipated.
10.2 Chemical Stability	
	Stable under normal conditions.
10.3 Possibility of hazardous reaction	ns
	No hazardous reactions known if used for its intended purpose.
10.4 Conditions to avoid	
	Excessive heat.
10.5 Incompatible materials	
	Strong oxidizing agents, bases, acids, amines.
10.6 Hazardous decomposition produ	ucts
	Carbon oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

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

Acute toxicity - Ingestion	Calculation method : Not classified.
Acute toxicity - Skin Contact	Calculation method : Not classified.
Acute toxicity - Inhalation	Calculation method : Not classified.
Skin corrosion/irritation	Calculation method : Causes skin irritation.
Serious eye damage/irritation	Calculation method : Causes serious eye irritation.
Skin sensitization data	Calculation method : May cause an allergic skin reaction.
Respiratory sensitization data	Calculation method : Not classified.
Germ cell mutagenicity	Calculation method : Not classified.
Carcinogenicity	Calculation method : Not classified.
Reproductive toxicity	Calculation method : Not classified.
Lactation	Calculation method : Not classified.
STOT - single exposure	Calculation method : May cause respiratory irritation.
STOT - repeated exposure	Calculation method : Not classified.
Aspiration hazard	Calculation method : Not classified.
11.2 Information on other hazards	

Not known.



SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxic to aquatic life with long lasting effects.

Toxicity - Aquatic invertebrates	Not known.
Toxicity - Fish	Not known.
Toxicity - Algae	Not known.
Toxicity - Sediment Compartment	Not classified.
Toxicity - Terrestrial Compartment	Not classified.
12.2 Persistence and degradability	
	Not known.
12.3 Bioaccumulative potential	
	Not known.
12.4 Mobility in soil	
	Not known.
12.5 Results of PBT and vPvB assess	ment
	Not known.
12.6 Endocrine disrupting properties	
	None known.
12.7 Other adverse effects	
	Not known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 W	aste treatment methods	
		Dispose of contents in accordance with local, state or national legislation. Send
		to a licensed recycler, reclaimer or incinerator. Dispose of this material and its
		container to hazardous or special waste collection point. Dispose at suitable
		refuse site.
13.2 A	dditional Information	
		Disposal should be in accordance with local, state or national legislation.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number or ID number	
UN No.	3082
14.2 UN proper shipping name	
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
14.3 Transport hazard class(es)	
ADR/RID	
ADR/RID Class	9
ADR Classification Code	M6
Special Provisions	274, 335, 375, 601
Limited Quantities	5 L
Excepted Quantities	E1



Emergency Action Code Mixed Packing Instructions for Packages	•3Z P001 IBC03 LP01 R001
Special Packing Provisions for Packages	PP1
Mixed Packing Instructions for Packages	MP19
Packing Instructions for Portable Tanks	s T4
Special Provisions for Portable Tanks	TP1 TP29
Tank Code for Tanks	LGBV
Special Provisions for Tanks	
Vehicle for Tank Carriage	AT
ADR Transport Category	3
Tunnel Restriction Code	-
Special Provisions for Carriage -	V12
Packages	
Special Provisions for Carriage - Bulk	
Special Provisions for Carriage -	CV13
Loading, Unloading and Handling	
Special Provisions for Carriage -	
Operation	00
ADR HIN IMDG	90
IMDG IMDG Class	9
INDG Class	9
Special Provisions	274 225 275 601
Special Provisions	274, 335, 375, 601 5 L
Limited Quantities	5 L
Limited Quantities Excepted Quantities	5 L E1
Limited Quantities Excepted Quantities Mixed Packing Instructions for	5 L
Limited Quantities Excepted Quantities Mixed Packing Instructions for Packages	5 L E1
Limited Quantities Excepted Quantities Mixed Packing Instructions for	5 L E1 P001 IBC03 LP01 R001
Limited Quantities Excepted Quantities Mixed Packing Instructions for Packages Special Packing Provisions for	5 L E1 P001 IBC03 LP01 R001 PP1
Limited Quantities Excepted Quantities Mixed Packing Instructions for Packages Special Packing Provisions for Packages	5 L E1 P001 IBC03 LP01 R001 PP1
Limited Quantities Excepted Quantities Mixed Packing Instructions for Packages Special Packing Provisions for Packages Packing Instructions for Portable Tanks	5 L E1 P001 IBC03 LP01 R001 PP1 5 T4
Limited Quantities Excepted Quantities Mixed Packing Instructions for Packages Special Packing Provisions for Packages Packing Instructions for Portable Tanks Special Provisions for Portable Tanks	5 L E1 P001 IBC03 LP01 R001 PP1 T1 TP29
Limited Quantities Excepted Quantities Mixed Packing Instructions for Packages Special Packing Provisions for Packages Packing Instructions for Portable Tanks Special Provisions for Portable Tanks IMDG EMS	5 L E1 P001 IBC03 LP01 R001 PP1 5 T4 TP1 TP29 F-A S-F
Limited Quantities Excepted Quantities Mixed Packing Instructions for Packages Special Packing Provisions for Packages Packing Instructions for Portable Tanks Special Provisions for Portable Tanks IMDG EMS Stowage and Handling	5 L E1 P001 IBC03 LP01 R001 PP1 5 T4 TP1 TP29 F-A S-F
Limited Quantities Excepted Quantities Mixed Packing Instructions for Packages Special Packing Provisions for Packages Packing Instructions for Portable Tanks Special Provisions for Portable Tanks IMDG EMS Stowage and Handling Segregation	5 L E1 P001 IBC03 LP01 R001 PP1 5 T4 TP1 TP29 F-A S-F
Limited Quantities Excepted Quantities Mixed Packing Instructions for Packages Special Packing Provisions for Packages Packing Instructions for Portable Tanks Special Provisions for Portable Tanks IMDG EMS Stowage and Handling Segregation Marine Pollutant	5 L E1 P001 IBC03 LP01 R001 PP1 5 T4 TP1 TP29 F-A S-F
Limited Quantities Excepted Quantities Mixed Packing Instructions for Packages Special Packing Provisions for Packages Packing Instructions for Portable Tanks Special Provisions for Portable Tanks Special Provisions for Portable Tanks Stowage and Handling Segregation Marine Pollutant ICAO/IATA	5 L E1 P001 IBC03 LP01 R001 PP1 5 T4 TP1 TP29 F-A S-F Category A
Limited Quantities Excepted Quantities Mixed Packing Instructions for Packages Special Packing Provisions for Packages Packing Instructions for Portable Tanks Special Provisions for Portable Tanks IMDG EMS Stowage and Handling Segregation Marine Pollutant ICAO/IATA IATA Proper Shipping Name	5 L E1 P001 IBC03 LP01 R001 PP1 T4 T91 TP29 F-A S-F Category A ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Limited Quantities Excepted Quantities Mixed Packing Instructions for Packages Special Packing Provisions for Packages Packing Instructions for Portable Tanks Special Provisions for Portable Tanks IMDG EMS Stowage and Handling Segregation Marine Pollutant ICAO/IATA IATA Proper Shipping Name Excepted Quantities	5 L E1 P001 IBC03 LP01 R001 PP1 T4 T91 TP29 F-A S-F Category A ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. E1
Limited Quantities Excepted Quantities Mixed Packing Instructions for Packages Special Packing Provisions for Packages Packing Instructions for Portable Tanks Special Provisions for Portable Tanks Special Provisions for Portable Tanks Segregation Marine Pollutant ICAO/IATA IATA Proper Shipping Name Excepted Quantities Passenger and Cargo Aircraft Limited	5 L E1 P001 IBC03 LP01 R001 PP1 T4 T91 TP29 F-A S-F Category A ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. E1
Limited Quantities Excepted Quantities Mixed Packing Instructions for Packages Special Packing Provisions for Packages Packing Instructions for Portable Tanks Special Provisions for Portable Tanks IMDG EMS Stowage and Handling Segregation Marine Pollutant ICAO/IATA IATA Proper Shipping Name Excepted Quantities Passenger and Cargo Aircraft Limited Quantities Packing Instructions	5 L E1 P001 IBC03 LP01 R001 PP1 T4 TP1 TP29 F-A S-F Category A ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. E1 Y964
Limited Quantities Excepted Quantities Mixed Packing Instructions for Packages Special Packing Provisions for Packages Packing Instructions for Portable Tanks Special Provisions for Portable Tanks IMDG EMS Stowage and Handling Segregation Marine Pollutant ICAO/IATA IATA Proper Shipping Name Excepted Quantities Passenger and Cargo Aircraft Limited Quantities Packing Instructions	5 L E1 P001 IBC03 LP01 R001 PP1 T4 TP1 TP29 F-A S-F Category A ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. E1 Y964



Passenger and Cargo Aircraft Max net	450L
Qty	
Cargo Aircraft Packing Instructions	964
Cargo Aircraft Max net Qty	450L
Special Provisions	A97, A158, A197, A215
Emergency Response Guidebook (ERG)	9L
Code	
Labels	
Labels	9
14.4 Packing group	
Packing group	111
14.5 Environmental hazards	
Environmental hazards	Classified as a Marine Pollutant.
14.6 Special precautions for user	
Special precautions for user	Not known.
14.7 Maritime transport in bulk accord	ding to IMO instruments

No information available

SECTION 15: REGULATORY INFORMATION

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

European Regulations - Authorisations	s and/or Restrictions On Use
Candidate List of Substances of Very	Not listed
High Concern for Authorisation	
REACH: ANNEX XIV list of substances	Not listed
subject to authorisation	
	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average dimensional molecular weight \leq 700) (25068-38-6), 4,4'-methylenediphenol (620-92-8),
use of certain dangerous substances,	Distillates (petroleum), hydrotreated light Kerosine - unspecified [A complex
mixtures and articles	combination of hydrocarbons obtained by treating a petroleum fraction with
	hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon
	numbers predominantly in the range of C9 through C16 and boiling in the range
	of approximately 150 $^\circ$ C to 290 $^\circ$ C (302 $^\circ$ F to 554 $^\circ$ F).] (64742-47-8)
Community Rolling Action Plan	Not listed
(CoRAP)	
Regulation (EU) N° 2019/1021 of the	
European Parliament and of the Counci on persistent organic pollutants	
Regulation (EC) N° 1005/2009 on	Not listed
substances that deplete the ozone laye	
Regulation (EU) N° 649/2012 of the	Not listed
European Parliament and of the Counci	1
concerning the export and import of	
hazardous chemicals	



National regulations

ABRO Epoxy Steel Adhesive (Resin)

Other	Not known.
15.2 Chemical Safety Assessment	A REACH chemical safety assessment has not been carried out.
SECTION 16: OTHER INFORMATION	
The following sections contain revisio	ns or new statements:
LEGEND	
Hazard Pictogram(s)	
	GHS07 GHS09
	GHS08: GHS: Health hazard
Hazard classification	Asp. Tox. 1 : Aspiration hazard, Category 1
	Skin Irrit. 2 : Skin corrosion/irritation, Category 2
	Skin Sens. 1 : Skin sensitization, Category 1
	Eye Irrit. 2 : Serious eye damage/irritation, Category 2
	STOT SE 3 : Specific target organ toxicity — single exposure, Category 3
	Aquatic Chronic 2 : Hazardous to the aquatic environment, Chronic, Category 2
	Aquatic Chronic 3 : Hazardous to the aquatic environment, Chronic, Category 3
Hazard Statement(s)	H304: May be fatal if swallowed and enters airways. H315: Causes skin irritation.
	H317: May cause an allergic skin reaction.
	H319: Causes serious eye irritation.
	H335: May cause respiratory irritation.
	H411: Toxic to aquatic life with long lasting effects.
	H412: Harmful to aquatic life with long lasting effects.
Precautionary Statement(s)	P261: Avoid breathing dust/fume/gas/mist/vapours/spray. P264: Wash hands and exposed skin thoroughly after handling.
	P271: Use only outdoors or in a well-ventilated area.
	P272: Contaminated work clothing should not be allowed out of the workplace.
	P273: Avoid release to the environment.
	P280: Wear protective gloves/protective clothing/eye protection/face protection.

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Acronyms

ABRO Epoxy Steel Adhesive (Resin)

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312: Call a POISON CENTRE/doctor if you feel unwell.

P321: Specific treatment (see Medical Advice on this label).

P332+P313: If skin irritation occurs: Get medical advice/attention.

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P337+P313: If eye irritation persists: Get medical advice/attention.

P362+P364: Take off contaminated clothing and wash it before reuse.

P391: Collect spillage.

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P405: Store locked up.

P501: Dispose of contents in accordance with local, state or national legislation.

ADN : European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE : Acute Toxicity Estimate

CAS : Chemical Abstracts Service

CLP : Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

DNEL : Derived No Effect Level

EC : European Community

EINECS : European Inventory of Existing Commercial Chemical Substances

IATA : International Air Transport Association

- IBC : Intermediate Bulk Container
- ICAO : International Civil Aviation Organization

IMDG : International Maritime Dangerous Goods

LTEL : Long term exposure limit

PBT : Persistent, Bioaccumulative and Toxic

PNEC : Predicted No Effect Concentration

REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals

RID : Regulations concerning the International Carriage of Dangerous Goods by Rail

STEL : Short term exposure limit

STOT : Specific Target Organ Toxicity

UN : United Nations

vPvB : very Persistent and very Bioaccumulative

Key literature references and sources for data used to compile the SDS Disclaimers

Regulation (EC) No. 1272/2008 (CLP)

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