TW Engineered Polymers

SAFETY DATA SHEET ALUMINIUM LIQUID (F2) RESIN

SECTION 1: Identification of the substance/mixture and of the company/undertaking			
1.1. Product identifier			
Product name	ALUMINIUM LIQUID (F2) RESIN		
Product number	X0011		
1.2. Relevant identified uses o	f the substance or mixture and uses advised against		
Identified uses	Resin.		
1.3. Details of the supplier of the	he safety data sheet		
Supplier	ITW Engineered Polymers Bay 150 Shannon Industrial Estate Shannon Co. Clare +353 (0)61 471 299 +353 (0)61 471 285		
	mail@itwep.com		
1.4. Emergency telephone nur	nber		
Emergency telephone	+44(0)1235 239 670 (24h)		
SECTION 2: Hazards identification	ation		
2.1. Classification of the subst			
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Hazard statements	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.
Precautionary statements	 P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 IF ON SKIN: Wash with plenty of 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.
Supplemental label information	EUH205 Contains epoxy constituents. May produce an allergic reaction.
Contains	EPOXY RESIN (Number average MW <= 700), OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS
Supplementary precautionary statements	 P261 Avoid breathing vapour/spray. P264 Wash contaminated skin thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace. P321 Specific treatment (see medical advice on this label). P332+P313 If skin irritation 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. P501 Dispose of contents/container in accordance with national regulations.

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

EPOXY RESIN (Number average	e MW <= 700)	30-60%
CAS number: 25068-38-6	EC number: 500-033-5	REACH registration number: 01- 2119456619-26-0000
Classification	Classificat	tion (67/548/EEC or 1999/45/EC)
Skin Irrit. 2 - H315	R43 Xi;R3	6/38 N;R51/53
Eye Irrit. 2 - H319		
Skin Sens. 1 - H317		
Aquatic Chronic 2 - H411		
OXIRANE, MONO [(C12-14- ALK	YLOXY)METHYL] DERIVS	1-59
CAS number: 68609-97-2		
Classification	Classificat	tion (67/548/EEC or 1999/45/EC)
Skin Irrit. 2 - H315	R43 Xi;R3	8
Skin Sens. 1 - H317		

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	Avoid contact with skin and eyes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).		
Inhalation	Move affected person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention if any discomfort continues.		
Ingestion	Rinse mouth thoroughly with water. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention.		
Skin contact	Remove affected person from source of contamination. Wash skin thoroughly with soap ar water. Get medical attention if irritation persists after washing.		
Eye contact	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention. Get medical attention if irritation persists after washing.		
4.2. Most important symptoms	and effects, both acute and delayed		
General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.		
4.3. Indication of any immedia	te medical attention and special treatment needed		
Notes for the doctor	No specific recommendations. If in doubt, get medical attention promptly.		
SECTION 5: Firefighting meas	sures		
5.1. Extinguishing media			
Suitable extinguishing media	Extinguish with foam, carbon dioxide or dry powder.		
5.2. Special hazards arising fro	om the substance or mixture		
Specific hazards	Irritating gases or vapours.		
5.3. Advice for firefighters			
Protective actions during firefighting	Avoid breathing fire gases or vapours. Keep up-wind to avoid fumes. Do not use water jet as an extinguisher, as this will spread the fire. Control run-off water by containing and keeping it out of sewers and watercourses.		
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.		
SECTION 6: Accidental releas	e measures		
6.1. Personal precautions, pro	tective equipment and emergency procedures		
Personal precautions	Provide adequate ventilation. Avoid contact with skin and eyes. Wear protective clothing as described in Section 8 of this safety data sheet.		
6.2. Environmental precaution	S		
Environmental precautions	Avoid the spillage or runoff entering drains, sewers or watercourses. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.		
6.3. Methods and material for	containment and cleaning up		
Methods for cleaning up	Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.		
6.4. Reference to other section			
Reference to other sections	Wear protective clothing as described in Section 8 of this safety data sheet.		

Reference to other sections Wear protective clothing as described in Section 8 of this safety data sheet.

SECTION 7: Handling and s	storage	
7.1. Precautions for safe ha	ndling	
Usage precautions	Provide adequate ventilation. Use only in well-ventilated areas. Keep away from heat, sparks and open flame. Open drum carefully as content may be under pressure. Do not eat, drink or smoke when using the product. Good personal hygiene procedures should be implemented.	
7.2. Conditions for safe stor	age, including any incompatibilities	
Storage precautions	Store in tightly-closed, original container in a dry, cool and well-ventilated place.	
7.3. Specific end use(s)		
Specific end use(s)	The identified uses for this product are detailed in Section 1.2.	
SECTION 8: Exposure Con	trols/personal protection	
8.1. Control parameters		
Ingredient comments	WEL = Workplace Exposure Limits	
8.2. Exposure controls		
Protective equipment		
Appropriate engineering controls	Provide adequate general and local exhaust ventilation.	
Eye/face protection	Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles.	
Hand protection	Wear protective gloves made of the following material: Rubber or plastic.	
Other skin and body protection	Wear apron or protective clothing in case of contact.	
Hygiene measures	Provide eyewash station and safety shower. Keep away from food, drink and animal feeding stuffs. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Do not eat, drink or smoke when using the product. Change work clothing daily before leaving workplace.	
Respiratory protection	If ventilation is inadequate, suitable respiratory protection must be worn.	
SECTION 9: Physical and C	Chemical Properties	

9.1. Information on basic physical and chemical properties

Appearance	Viscous liquid.
Colour	Light (or pale). Grey.
Odour	Slight.
рН	pH (concentrated solution): 7.0 @ 20 °C
Melting point	n/d°C
Initial boiling point and range	>204.4°C @
Flash point	> 93.3°C

Evaporation rate	<<1 (butyl acetate =1)
Vapour density	>1
Relative density	1.92 @ 20 °C°C
Solubility(ies)	Slightly soluble in water.
9.2. Other information	
Other information	Not available.
SECTION 10: Stability and re	activity
10.1. Reactivity	
Reactivity	Strong oxidising agents. Acids. Amines.
10.2. Chemical stability	
Stability	Stable at normal ambient temperatures and when used as recommended.
10.3. Possibility of hazardous	reactions
Possibility of hazardous reactions	Not available.
10.4. Conditions to avoid	
Conditions to avoid	Avoid heat, flames and other sources of ignition. Avoid excessive heat for prolonged periods of time. Avoid exposure to high temperatures or direct sunlight.
10.5. Incompatible materials	
Materials to avoid	Avoid contact with the following materials: Strong oxidising agents. Strong acids. Amines.
10.6. Hazardous decompositi	on products
Hazardous decomposition products	Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Vapours/gases/fumes of: Acids - organic. Aldehydes.
SECTION 11: Toxicological in	Iformation
11.1. Information on toxicolog	ical effects
Skin contact	Irritating to skin. May cause sensitisation by skin contact. May cause sensitisation or allergic reactions in sensitive individuals. Prolonged contact may cause redness, irritation and dry skin.
Eye contact	Irritating to eyes.
Acute and chronic health hazards	The product contains an epoxy resin. May cause sensitisation or allergic reactions in sensitive individuals.
Route of entry	Inhalation Ingestion.
SECTION 12: Ecological Info	rmation
Ecotoxicity	Avoid releasing into the environment. The product contains a substance which is toxic to
	aquatic organisms and which may cause long-term adverse effects in the aquatic environment.
12.1. Toxicity	
12.1. Toxicity Toxicity	

ALUMINIUM LIQUID (F2) RESIN

Persistence and degradability	There are no data on the degradability of this product.		
12.3. Bioaccumulative potentia			
Bioaccumulative potential	No data available on bioaccumulation.		
12.4. Mobility in soil			
Mobility	Do not discharge into drains or watercourses or onto the ground.		
12.5. Results of PBT and vPvE	3 assessment		
Results of PBT and vPvB assessment	This product does not contain any substances classified as PBT or vPvB.		
12.6. Other adverse effects			
Other adverse effects	Not available.		
SECTION 13: Disposal consid	erations		
13.1. Waste treatment method	S		
General information	When handling waste, the safety precautions applying to handling of the product should be considered.		
Disposal methods	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.		
Waste class	08 04 99		
SECTION 14: Transport inform	nation		
General	No other information known.		
14.1. UN number			
UN No. (ADR/RID)	3082		
UN No. (IMDG)	3082		
UN No. (ICAO)	3082		
UN No. (ICAO) 14.2. UN proper shipping nam			
14.2. UN proper shipping nam Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN		
14.2. UN proper shipping name Proper shipping name (ADR/RID) Proper shipping name (IMDG)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (Number average MW <= 700)) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN		
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14.2. UN proper shipping nameProper shipping name(ADR/RID)Proper shipping name(IMDG)Proper shipping nameProper shipping name(ICAO)Proper shipping name14.3. Transport hazard class(e)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (Number average MW <= 700)) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (Number average MW <= 700)) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (Number average MW <= 700)) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (Number average MW <= 700))		
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ICAO class/division

ICAO subsidiary risk

Transport labels



14.4. Packing group

ADR/RID packing group	
IMDG packing group	Ш
ICAO packing group	Ш

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

9



EmSF-A, S-FEmergency Action Code•3ZHazard Identification Number
(ADR/RID)90Tunnel restriction code(E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

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

SECTION 15: Regulatory information

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

EU legislation Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Water hazard classification WGK 2

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information			
Revision date	19/05/2015		
Revision	14		
Supersedes date	12/04/2014		

Risk phrases in full	NC Not classified. R36/38 Irritating to eyes and skin. R38 Irritating to skin. R43 May cause sensitisation by skin contact. R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Hazard statements in full	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.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.