

ZWALUW FIX-O-CHEM STPSF 280ML (PART-A)
Supersedes Date: 09-Aug-2021Revision date 06-Aug-2021
Revision Number 1**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier****Product Name** ZWALUW FIX-O-CHEM STPSF 280ML (PART-A)
Pure substance/mixture Mixture**1.2. Relevant identified uses of the substance or mixture and uses advised against****Recommended use** Adhesive.
Uses advised against None known**1.3. Details of the supplier of the safety data sheet****Company Name**
Bostik Limited
Common Rd
ST16 3EH
Stafford UK
Tel: +44 (1785) 27 26 25
Fax: +44 (1785) 25 72 36**E-mail address** SDS.box-EU@bostik.com**1.4. Emergency telephone number****United Kingdom** +44 (1785) 272650
Ireland +353 (1) 8624900 (Monday- Friday 9am-5pm)**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture**

Regulation (EC) No 1272/2008

Skin sensitisation Category 1 - (H317)**2.2. Label elements**

Contains 1,4-Butanediol dimethacrylate, Ethylene dimethacrylate, Methacrylic acid, monoester with propane-1,2-diol, Reaction mass of 2,2'-[[4-methylphenyl]imino]bisethanol and 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-ethanol

**Signal word**

Warning

Hazard statements

H317 - May cause an allergic skin reaction.

Precautionary Statements - EU (§28, 1272/2008)P101 - If medical advice is needed, have product container or label at hand
P102 - Keep out of reach of children
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray
P280 - Wear protective gloves

SAFETY DATA SHEET

ZWALUW FIX-O-CHEM STPSF 280ML (PART-A)
 Supercedes Date: 09-Aug-2021

Revision date 06-Aug-2021
 Revision Number 1

P302 + P352 - IF ON SKIN: Wash with plenty of water and soap
 P501 - Dispose of contents/ container to an approved waste disposal plant

Additional information

Please refer also to Safety Data Sheet of Part B.

2.3. Other hazards

Causes mild skin irritation.

PBT & vPvB

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	EC No.	CAS No.	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	REACH registration number
1,4-Butanediol dimethacrylate	218-218-1	2082-81-7	10 - <20	Skin Sens. 1 (H317)		01-2119967415-30-XXXX
Vinyltoluene	246-562-2	25013-15-4	5 - <10	Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Acute Tox. 4 (H332) Flam Liq. 3 (H226)		01-2119622074-50-xxxx
Ethylene dimethacrylate	202-617-2	97-90-5	1 - <5	Skin Sens. 1 (H317) STOT SE 3 (H335)	STOT SE 3 :: C>=10%	01-2119965172-38-xxxx
Methacrylic acid, monoester with propane-1,2-diol	248-666-3	27813-02-1	1- <2.5	Eye Irrit. 2 (H319) Skin Sens. 1 (H317)		01-2119490226-37-XXXX
Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-ethanol	911-490-9	--	0.1 - <1	Eye Dam. 1 (H318) Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Acute Tox. 4 (H302) Aquatic Chronic 3 (H412)		01-2119979579-10-xxxx
2-Propanol, 1,1'-[(4-methylphenyl)imino]bisethanol	254-075-1	38668-48-3	0.1 - <1	Acute Tox. 2 (H300)		01-2119980937-17-xxxx

SAFETY DATA SHEET

ZWALUW FIX-O-CHEM STPSF 280ML (PART-A)
Supersedes Date: 09-Aug-2021

Revision date 06-Aug-2021
Revision Number 1

no]bis-				Eye Irrit. 2 (H319) Aquatic Chronic 3 (H412)		
2,2,4-Trimethyl-1,3-pent anediol diisobutyrate	229-934-9	6846-50-0	0.1 - <1	Repr. 2 (H361d) Aquatic Chronic 3 (H412)		01-2119451093- 47-XXXX

Full text of H- and EUH-phrases: see section 16

Note: ^ indicates not classified, however, the substance is listed in section 3 as it has an OEL

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance.
Inhalation	Remove to fresh air. IF exposed or concerned: Get medical advice/attention.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a doctor.
Skin contact	Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a doctor.
Ingestion	Clean mouth with water. Do NOT induce vomiting. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms	Itching. Rashes. Hives. Prolonged contact may cause redness and irritation.
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4.3. Indication of any immediate medical attention and special treatment needed

Note to doctors	May cause sensitisation in susceptible persons. Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
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Unsuitable extinguishing media	Full water jet.
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5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	Product is or contains a sensitiser. May cause sensitisation by skin contact.
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Hazardous combustion products	Carbon oxides.
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5.3. Advice for firefighters

Special protective equipment and	Firefighters should wear self-contained breathing apparatus and full firefighting turnout
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SAFETY DATA SHEET

ZWALUW FIX-O-CHEM STPSF 280ML (PART-A)
Supersedes Date: 09-Aug-2021

Revision date 06-Aug-2021
Revision Number 1

precautions for fire-fighters gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Please refer also to Safety Data Sheet of Part B. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children.

7.3. Specific end use(s)

Specific use(s)
Adhesive.

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

Other information Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

SAFETY DATA SHEET

ZWALUW FIX-O-CHEM STPSF 280ML (PART-A)
 Supersedes Date: 09-Aug-2021

Revision date 06-Aug-2021
 Revision Number 1

Derived No Effect Level (DNEL) No information available

Derived No Effect Level (DNEL)			
Reaction mass of 2,2'-[[4-methylphenyl]imino]bisethanol and 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-ethanol (--)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Systemic health effects	Inhalation	9.8 mg/m ³	
worker Long term Systemic health effects	Dermal	1.4 mg/kg bw/d	

2-Propanol, 1,1'-[[4-methylphenyl]imino]bis- (38668-48-3)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Systemic health effects	Inhalation	2.47 mg/m ³	
worker Long term Systemic health effects	Dermal	0.7 mg/kg bw/d	

2,2,4-Trimethyl-1,3-pentanediol diisobutyrate (6846-50-0)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Systemic health effects Long term	Dermal	3.12 mg/kg bw/d	
worker Systemic health effects Long term	Inhalation	110 mg/m ³	

Derived No Effect Level (DNEL)			
Reaction mass of 2,2'-[[4-methylphenyl]imino]bisethanol and 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-ethanol (--)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term Systemic health effects	Inhalation	2.9 mg/m ³	
Consumer Long term Systemic health effects	Dermal	0.83 mg/kg bw/d	
Consumer Long term Systemic health effects	Oral	0.83 mg/kg bw/d	

2-Propanol, 1,1'-[[4-methylphenyl]imino]bis- (38668-48-3)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term Systemic health effects	Oral	0.25 mg/kg bw/d	

2,2,4-Trimethyl-1,3-pentanediol diisobutyrate (6846-50-0)			
Type	Exposure route	Derived No Effect Level	Safety factor

SAFETY DATA SHEET

ZWALUW FIX-O-CHEM STPSF 280ML (PART-A)
 Supersedes Date: 09-Aug-2021

Revision date 06-Aug-2021
 Revision Number 1

		(DNEL)	
Consumer Systemic health effects Long term	Dermal	18.8 mg/kg bw/d	
Consumer Systemic health effects Long term	Inhalation	32.6 mg/m ³	
Consumer Systemic health effects Long term	Oral	18.8 mg/kg bw/d	

Predicted No Effect Concentration (PNEC) No information available.

Predicted No Effect Concentration (PNEC)	
Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-ethanol (--)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.048 mg/l
Marine water	0.005 mg/l
Microorganisms in sewage treatment	10 mg/l
Freshwater sediment	1.2 mg/kg dry weight
Marine sediment	0.12 mg/kg dry weight
Soil	0.21 mg/kg dry weight

2-Propanol, 1,1'-[(4-methylphenyl)imino]bis- (38668-48-3)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.017 mg/l
Marine water	0.002 mg/l
Sewage treatment plant	199.5 mg/l
Freshwater sediment	0.163 mg/kg dry weight
Marine sediment	0.016 mg/kg dry weight
Soil	0.023 mg/kg dry weight

2,2,4-Trimethyl-1,3-pentanediol diisobutyrate (6846-50-0)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.014 mg/l
Marine water	0.0014 mg/l
Freshwater sediment	1.15 mg/kg dry weight
Marine sediment	0.115 mg/kg dry weight
Soil	0.926 mg/kg dry weight
Microorganisms in sewage treatment	3 mg/l

8.2. Exposure controls

Engineering controls Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection Tight sealing safety goggles.
Skin and body protection Suitable protective clothing.

Environmental exposure controls No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Solid
Appearance Paste
Colour Beige
Odour Characteristic

SAFETY DATA SHEET

ZWALUW FIX-O-CHEM STPSF 280ML (PART-A)
Supersedes Date: 09-Aug-2021

Revision date 06-Aug-2021
Revision Number 1

Odour threshold	No information available	
Property	Values	Remarks • Method
pH	No data available	
pH (as aqueous solution)	No data available	Not applicable
Melting point / freezing point	No information available . °C	
Initial boiling point and boiling range	No data available	
Flash point	Not applicable . °C	
Evaporation rate	No data available	
Flammability	No data available	
Flammability Limit in Air		
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapour pressure	No data available	
Relative vapour density	No data available	
Relative density	No data available	
Water solubility	Insoluble	
Solubility(ies)	No data available	
Partition coefficient	No data available	
Autoignition temperature	No data available	
Decomposition temperature	No data available	
Kinematic viscosity	No data available	
Dynamic viscosity	No data available	
Explosive properties	No data available	
Oxidising properties	No data available	

9.2. Other information

Solid content (%)	No information available
VOC Content (%)	
Density	1.72

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	No information available.
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10.2. Chemical stability

Stability	Stable under normal conditions.
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Explosion data

Sensitivity to mechanical impact	None.
Sensitivity to static discharge	None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	None under normal processing.
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10.4. Conditions to avoid

Conditions to avoid	None known based on information supplied.
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10.5. Incompatible materials

Incompatible materials	None known based on information supplied.
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SAFETY DATA SHEET

ZWALUW FIX-O-CHEM STPSF 280ML (PART-A)
Supersedes Date: 09-Aug-2021

Revision date 06-Aug-2021
Revision Number 1

10.6. Hazardous decomposition products

Hazardous decomposition products None under normal use conditions. Stable under recommended storage conditions.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on likely routes of exposure

Product Information

Inhalation	Based on available data, the classification criteria are not met.
Eye contact	Based on available data, the classification criteria are not met.
Skin contact	May cause sensitisation by skin contact. Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). Causes mild skin irritation.
Ingestion	Based on available data, the classification criteria are not met.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Itching. Rashes. Hives. Prolonged contact may cause redness and irritation.

Numerical measures of toxicity

No information available

Acute toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	8,849.60 mg/kg
ATEmix (dermal)	40,404.00 mg/kg
ATEmix (inhalation-dust/mist)	20.20 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
1,4-Butanediol dimethacrylate 2082-81-7	10066 mg/Kg (Rattus) (OECD 401)	>3000 mg/Kg	
Vinyltoluene 25013-15-4	=2255 mg/kg (Rattus) = 4000 mg/kg (Rattus)	> 5 mL/kg (Rabbit)	
Ethylene dimethacrylate 97-90-5	=3300 mg/kg (Rattus)	> 2000 mg/kg (Rat)	
Methacrylic acid, monoester with propane-1,2-diol 27813-02-1	=11200 mg/kg (Rattus)	> 3000 mg/kg (Oryctolagus cuniculus)	
Reaction mass of 2,2'-[(4-methylphenyl)imino]bis ethanol and 2-[[2-(2-hydroxyethoxy)ethyl](4- methylphenyl)amino]-ethanol --	LD50 = 619 mg/Kg Rat (OECD 401)	LD50 >2000 mg/Kg Rat OECD Guideline 402)	
2-Propanol, 1,1'-[(4-methylphenyl)imino]bis -	LD50 >25<200 mg/kg bw (Rattus)(OECD guideline 423)	LD50 >2000 mg/kg (Rattus) OECD 402	

SAFETY DATA SHEET

ZWALUW FIX-O-CHEM STPSF 280ML (PART-A)
 Supersedes Date: 09-Aug-2021

Revision date 06-Aug-2021
 Revision Number 1

38668-48-3			
2,2,4-Trimethyl-1,3-pentanedio l diisobutyrate 6846-50-0	>3200 mg/kg (Rattus)	>2000 mg/Kg (Oryctolagus cuniculus)	>5.3 mg/L (Rattus) 6 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Classification based on data available for ingredients. May cause skin irritation.

Serious eye damage/eye irritation Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation May cause sensitisation by skin contact.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT - single exposure Based on available data, the classification criteria are not met.

STOT - repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties No information available.

11.2.2. Other information

Other adverse effects No information available.

Note: Please refer also to Safety Data Sheet of Part B
 PC-ADH-8 Multi-component adhesives and sealants

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea	M-Factor	M-Factor (long-term)
Vinyltoluene 25013-15-4	-	LC50: =23.4mg/L (96h, Pimephales rafinesque)	-	-		

SAFETY DATA SHEET

ZWALUW FIX-O-CHEM STPSF 280ML (PART-A)
 Supersedes Date: 09-Aug-2021

Revision date 06-Aug-2021
 Revision Number 1

Ethylene dimethacrylate 97-90-5	-	LC50: =15.95mg/L (96h, Danio rerio)	-	-		
Methacrylic acid, monoester with propane-1,2-diol 27813-02-1	-	LC50: =493mg/L (48h, Leuciscus idus melanotus)	-	LC50 > 143 mg/l Daphnia magna (OECD 202)		
Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-ethanol --	EC50 (72h) >100 mg/L Algae (Pseudokirchnerella subcapitata)	LC50 (96h) >100mg/L (Cyprinus carpio)	-	EC50 (48h) = 48 mg/L Daphnia magna		
2-Propanol, 1,1'-[(4-methylphenyl)imino]bis- 38668-48-3	EC50 (72h) = 245 mg/L (Desmodesmus subspicatus) OECD 201	LC50 (96h) = 17 mg/L (Danio rerio)	-	EC50 (48h) = 28.8 mg/L (Daphnia magna)		
2,2,4-Trimethyl-1,3-pentanediol diisobutyrate 6846-50-0	-	LC50: >1.55mg/L (96h, Pimephales promelas)	-	EC50: >1.46mg/L (48h, Daphnia magna)		

12.2. Persistence and degradability

Persistence and degradability No information available.

Component Information

2-Propanol, 1,1'-[(4-methylphenyl)imino]bis- (38668-48-3)

Method	Exposure time	Value	Results
OECD Test No. 301B: Ready Biodegradability: CO2 Evolution Test (TG 301 B)	.? days	39%	

12.3. Bioaccumulative potential

Bioaccumulation No information available.

Component Information

Chemical name	Partition coefficient	Bioconcentration factor (BCF)
Vinyltoluene 25013-15-4	3.36	35
Methacrylic acid, monoester with propane-1,2-diol 27813-02-1	0.97	-
Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-ethanol --	2.17	-
2-Propanol, 1,1'-[(4-methylphenyl)imino]bis- 38668-48-3	2.1	-

12.4. Mobility in soil

SAFETY DATA SHEET

ZWALUW FIX-O-CHEM STPSF 280ML (PART-A)
Supersedes Date: 09-Aug-2021

Revision date 06-Aug-2021
Revision Number 1

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment

Chemical name	PBT and vPvB assessment
1,4-Butanediol dimethacrylate 2082-81-7	The substance is not PBT / vPvB
Vinyltoluene 25013-15-4	The substance is not PBT / vPvB
Ethylene dimethacrylate 97-90-5	The substance is not PBT / vPvB
Methacrylic acid, monoester with propane-1,2-diol 27813-02-1	The substance is not PBT / vPvB
2-Propanol, 1,1'-[(4-methylphenyl)imino]bis- 38668-48-3	The substance is not PBT / vPvB
2,2,4-Trimethyl-1,3-pentanediol diisobutyrate 6846-50-0	The substance is not PBT / vPvB

12.6. Other adverse effects

Other adverse effects No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.
European Waste Catalogue	08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances 15 01 10*: Packaging containing residues of or contaminated by dangerous substances
Other information	Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1 UN number or ID number	Not regulated
14.2 Proper Shipping Name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special Provisions	None

IMDG

14.1 UN number or ID number	Not regulated
14.2 Proper Shipping Name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Marine pollutant	NP
14.6 Special Provisions	None
14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code	Not applicable

SAFETY DATA SHEET

ZWALUW FIX-O-CHEM STPSF 280ML (PART-A)
Supersedes Date: 09-Aug-2021

Revision date 06-Aug-2021
Revision Number 1

Air transport (ICAO-TI / IATA-DGR)

14.1 UN number or ID number	Not regulated
14.2 Proper Shipping Name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special Provisions	None

Section 15: REGULATORY INFORMATION

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

European Union

Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)

SVHC: Substances of Very High Concern for Authorisation:

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction

This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

Substance subject to authorisation per REACH Annex XIV

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

Persistent Organic Pollutants

Not applicable

National regulations

15.2. Chemical safety assessment

Chemical Safety Assessments have been carried out by the Reach registrants for substances registered at >10 tpa. No Chemical Safety Assessment has been carried out for this mixture

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

H226 - Flammable liquid and vapour
H300 - Fatal if swallowed
H302 - Harmful if swallowed
H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage

SAFETY DATA SHEET

ZWALUW FIX-O-CHEM STPSF 280ML (PART-A)
Supersedes Date: 09-Aug-2021

Revision date 06-Aug-2021
Revision Number 1

H319 - Causes serious eye irritation
H332 - Harmful if inhaled
H335 - May cause respiratory irritation
H361d - Suspected of damaging the unborn child
H412 - Harmful to aquatic life with long lasting effects

Legend

TWA	TWA (time-weighted average)
STEL	STEL (Short Term Exposure Limit)
Ceiling	Ceiling Limit Value
*	Skin designation
SVHC	Substance(s) of Very High Concern
PBT	Persistent, Bioaccumulative, and Toxic (PBT) Chemicals
vPvB	Very Persistent and very Bioaccumulative (vPvB) Chemicals
STOT RE	Specific target organ toxicity - Repeated exposure
STOT SE	Specific target organ toxicity - Single exposure
EWC	European Waste Catalogue

Key literature references and sources for data

No information available

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Indication of changes

Revision note Not applicable.

Training Advice No information available

Further information No information available

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.

End of Safety Data Sheet