

EF500R+[®]

CHEMICAL ANCHOR SYSTEM

EXTREME STRENGTH

CERTIFICATION

TDS

MSDS

Material Safety Data : PART A & B



NCC COMPLIANT
AS 5216:2018



For Install Support
techadvice@allfasteners.com.au



For Specification Support
engineering@allfasteners.com.au



For Customer Support
1800 255 349





SAFETY DATA SHEET EF500R+ Part A

According to Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice, February 2016

SECTION 1: Identification: Product identifier and chemical identity

Product identifier

Product name EF500R+ Part A

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

Application Two-component, epoxy-based adhesive. Resin.

Details of the supplier of the safety data sheet

Supplier Allfasteners PTY LTD
78 – 84 Logistics Street, Keilor Park, VIC 3042, Australia
Tel 03 9330 0555
Fax 03 9338 6434
support@allfasteners.com.au
www.allfasteners.com.au

Emergency telephone number

Emergency telephone 03 9330 0555 - 7am to 5pm Mon-Fri

National emergency telephone number AUS 13 11 26 / NZ 0800 764 766

SECTION 2: Hazard(s) identification

Classification of the substance or mixture

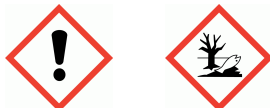
Physical hazards Not Classified

Health hazards Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 Skin Sens. 1 - H317

Environmental hazards Aquatic Chronic 2 - H411

Label elements

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.

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Precautionary statements	<p>P273 Avoid release to the environment.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of soap and water.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>
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Contains	EPOXY RESIN (Number average MW ≤ 700), EPOXY PHENOL FORMALDEHYDE RESIN, REACTION PRODUCTS OF HEXANE-1,6-DIOL WITH 2-CHLOROMETHYL)OXIRANE(1:2)
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SECTION 3: Composition and information on ingredients

Mixtures

EPOXY RESIN (Number average MW ≤ 700)	20-50%
CAS number: 25068-38-6	
Classification	
Skin Irrit. 2 - H315	
Eye Irrit. 2A - H319	
Skin Sens. 1 - H317	
Aquatic Chronic 2 - H411	
EPOXY PHENOL FORMALDEHYDE RESIN	10-20%
CAS number: 9003-36-5	
Classification	
Skin Irrit. 2 - H315	
Eye Irrit. 2A - H319	
Skin Sens. 1 - H317	
Aquatic Chronic 2 - H411	
REACTION PRODUCTS OF HEXANE-1,6-DIOL WITH 2-CHLOROMETHYL)OXIRANE(1:2)	5-10%
CAS number: 933999-84-9	
Classification	
Skin Irrit. 2 - H315	
Eye Irrit. 2A - H319	
Skin Sens. 1A - H317	
Aquatic Chronic 3 - H412	

The full text for all hazard statements is displayed in Section 16.

Composition comments CAS 9003-36-5 = CAS 20864-14-4 (RoW) CAS 933999-84-9 = CAS 16096-31-4 (RoW)

SECTION 4: First aid measures

Description of first aid measures

Inhalation	Remove affected person from source of contamination. Get medical attention if any discomfort continues.
Ingestion	Do not induce vomiting. Get medical attention immediately.

EF500R+ Part A

Skin Contact	Remove contaminated clothing immediately and wash skin with soap and water.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing. Show this Safety Data Sheet to the medical personnel.

Most important symptoms and effects, both acute and delayed

Inhalation	May cause respiratory irritation.
Ingestion	May cause stomach pain or vomiting.
Skin contact	Prolonged or repeated contact with skin may cause irritation, redness and dermatitis. May cause sensitisation by skin contact.
Eye contact	Irritating to eyes.

Indication of any immediate medical attention and special treatment needed

Notes for the doctor	No specific recommendations. If in doubt, get medical attention promptly.
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SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media	Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.
Unsuitable extinguishing media	Do not use water, if avoidable.

Special hazards arising from the substance or mixture

Specific hazards	Not considered to be a significant hazard due to the small quantities used.
Hazardous combustion products	Oxides of carbon. Oxides of nitrogen.

Advice for firefighters

Protective actions during firefighting	No specific requirements are anticipated under normal conditions of use.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.
Hazchem Code	•3Z

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet.
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Environmental precautions

Environmental precautions	Avoid release to the environment.
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Methods and material for containment and cleaning up

Methods for cleaning up	Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13.
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Reference to other sections

Reference to other sections	For personal protection, see Section 8. Collect and dispose of spillage as indicated in Section 13.
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SECTION 7: Handling and storage, including how the chemical may be safely used

EF500R+ Part A

Precautions for safe handling

Usage precautions	Avoid contact with eyes. Avoid contact with skin.
Advice on general occupational hygiene	Do not eat, drink or smoke when using this product. No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products.

Conditions for safe storage, including any incompatibilities

Storage precautions	Keep away from food, drink and animal feeding stuffs. Keep container tightly sealed when not in use.
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Specific end use(s)

Specific end use(s)	The identified uses for this product are detailed in Section 1.
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SECTION 8: Exposure controls and personal protection

Exposure controls

Protective equipment



Appropriate engineering controls

No specific ventilation requirements.

Eye/face protection

Wear eye protection.

Hand protection

Wear protective gloves made of the following material: Nitrile rubber.

Hygiene measures

Provide eyewash station. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated.

Respiratory protection

Not relevant.

Environmental exposure controls

Keep container tightly sealed when not in use. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Pink.
Odour	Characteristic.
Odour threshold	Not determined.
pH	Not applicable.
Melting point	Not applicable.
Initial boiling point and range	>35°C @ 760 mm Hg
Flash point	>100°C Closed cup.
Evaporation rate	No information available.
Evaporation factor	Not applicable.
Flammability (solid, gas)	Not applicable.

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Flammability Limit - Lower(%)	Not applicable.
Other flammability	Not available.
Vapour pressure	<500 Pa @ °C
Vapour density	No information available.
Relative density	1.5 - 1.6
Bulk density	Not applicable.
Solubility(ies)	Insoluble in water.
Partition coefficient	Not determined.
Auto-ignition temperature	Not determined.
Decomposition Temperature	Not determined.
Viscosity	> 60 S ISO2431
Explosive properties	No information available.
Explosive under the influence of a flame	No
Oxidising properties	Does not meet the criteria for classification as oxidising.

SECTION 10: Stability and reactivity

Reactivity	The following materials may react with the product: Acids. Amides. Amines. Phenols, cresols.
Stability	Stable at normal ambient temperatures and when used as recommended.
Possibility of hazardous reactions	The following materials may react with the product: Acids. Amides. Amines. Phenols, cresols.
Conditions to avoid	Avoid contact with acids and alkalis.
Materials to avoid	Acids. Amines. Amides.
Hazardous decomposition products	Oxides of carbon. Oxides of nitrogen.

SECTION 11: Toxicological information

Information on toxicological effects

Skin sensitisation

Skin sensitisation Sensitising.

General information

Contains epoxy constituents. See information supplied by the manufacturer.

Inhalation

No specific health hazards known.

Ingestion

No harmful effects expected from quantities likely to be ingested by accident.

Skin Contact

Irritating to skin. May cause sensitisation by skin contact.

Eye contact

May cause severe eye irritation.

EF500R+ Part A

Acute and chronic health hazards Irritating to skin. Irritating to eyes.

Route of exposure Skin and/or eye contact

Medical Symptoms Skin irritation.

Medical considerations Skin disorders and allergies.

Toxicological information on ingredients.REACTION PRODUCTS OF HEXANE-1,6-DIOL WITH 2-CHLOROMETHYLOXIRANE(1:2)Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 3,010.0

Species Rat

SECTION 12: Ecological informationEcological information on ingredients.EPOXY RESIN (Number average MW <= 700)Acute aquatic toxicity

Acute toxicity - fish LC50, 96 hours: 2 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 1.8 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 72 hours: 11 mg/l, Freshwater algae
EC₅₀, 96 hours: 220 mg/l, Scenedesmus subspicatus

Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates NOEC, 21 days: 0.3 mg/l, Daphnia magna

REACTION PRODUCTS OF HEXANE-1,6-DIOL WITH 2-CHLOROMETHYLOXIRANE(1:2)Acute aquatic toxicity

Acute toxicity - fish LC50, 96 hours: 30 mg/l, Oncorhynchus mykiss (Rainbow trout)

Persistence and degradability

Persistence and degradability The product is not biodegradable.

Ecological information on ingredients.EPOXY RESIN (Number average MW <= 700)

Biodegradation - 12% Degradation (%): 28 days

REACTION PRODUCTS OF HEXANE-1,6-DIOL WITH 2-CHLOROMETHYLOXIRANE(1:2)

Biodegradation - 47% Degradation (%): 28 days
OECD 301D

Bioaccumulative potential

Bioaccumulative Potential No data available on bioaccumulation.

EF500R+ Part A

Partition coefficient Not determined.

Ecological information on ingredients.EPOXY RESIN (Number average MW <= 700)

Bioaccumulative Potential May accumulate in soil and water systems. BCF: 100 - 3000,

Partition coefficient log Pow: 3.242 Estimated Value

REACTION PRODUCTS OF HEXANE-1,6-DIOL WITH 2-CHLOROMETHYLOXIRANE(1:2)

Bioaccumulative Potential BCF: < 100, Estimated Value

Partition coefficient log Pow: -0.272 Estimated Value

Mobility in soil

Mobility The product is insoluble in water and will spread on the water surface. The product is non-volatile. Semi-mobile.

Ecological information on ingredients.EPOXY RESIN (Number average MW <= 700)

Mobility Semi-mobile.

Adsorption/desorption coefficient Water - Koc: 1800 - 4400 @ 25°C Estimated Value

Henry's law constant 4.93E-05 Pa m³/mol @ 25°C

SECTION 13: Disposal considerationsWaste treatment methods

Disposal methods Residues and empty containers should be taken care of as hazardous waste according to local and national provisions. Dispose of waste via a licensed waste disposal contractor.

SECTION 14: Transport informationUN number

UN No. (ADG) 3082

UN No. (IMDG) 3082

UN No. (ICAO) 3082

UN proper shipping name

Proper shipping name (ADG) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS EPOXY RESIN (Number average MW <= 700), EPOXY PHENOL FORMALDEHYDE RESIN)

Proper shipping name (IMDG) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS EPOXY RESIN (Number average MW <= 700), EPOXY PHENOL FORMALDEHYDE RESIN)

Proper shipping name (ICAO) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS EPOXY RESIN (Number average MW <= 700), EPOXY PHENOL FORMALDEHYDE RESIN)

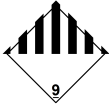
Transport hazard class(es)

ADG class 9

ADG classification code M6

EF500R+ Part A

ADG label	9
IMDG class	9
ICAO class/division	9

Transport labelsPacking group

ADG packing group	III
IMDG packing group	III
ICAO packing group	III

Environmental hazards

Environmentally hazardous substance/marine pollutant

Special precautions for user

EmS	F-A, S-F
Hazchem Code	•3Z

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory informationSafety, health and environmental regulations/legislation specific for the substance or mixture

Guidance Workplace Exposure Limits EH40.

SECTION 16: Any other relevant information

Revision comments	NOTE: Lines within the margin indicate significant changes from the previous revision.
Revision date	25/07/2018
Version number	1.000
SDS No.	21290
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. H412 Harmful 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.



SAFETY DATA SHEET EF500R+ Part B

According to Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice, February 2016

SECTION 1: Identification: Product identifier and chemical identity

Product identifier

Product name EF500R+ Part B

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

Application Two-component, epoxy-based adhesive. Hardener.

Details of the supplier of the safety data sheet

Supplier Allfasteners PTY LTD
78 – 84 Logistics Street, Keilor Park, VIC 3042, Australia
Tel 03 9330 0555
Fax 03 9338 6434
support@allfasteners.com.au
www.allfasteners.com.au

Emergency telephone number

Emergency telephone 0031 297 23 30 00 (Monday-Friday 8:00 am - 5:00 pm)

National emergency telephone number AUS 13 11 26 / NZ 0800 764 766

SECTION 2: Hazard(s) identification

Classification of the substance or mixture

Physical hazards Not Classified

Health hazards Acute Tox. 4 - H302 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317

Environmental hazards Aquatic Chronic 3 - H412

Human health Corrosive. Prolonged contact causes serious eye and tissue damage.

Environmental The product contains a substance which may have hazardous effects on the environment.

Label elements

Hazard pictograms



Signal word DANGER

Hazard statements
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.

EF500R+ Part B

Precautionary statements	<p>P273 Avoid release to the environment.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>
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Contains	1,3-CYCLOHEXANEBIS(METHYLAMINE), STYRENATED PHENOL, SALICYLIC ACID, 1,3-BENZENEDIMETHANAMINE
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SECTION 3: Composition and information on ingredients

Mixtures

1,3-CYCLOHEXANEBIS(METHYLAMINE)	20-50%
CAS number: 2579-20-6	
Classification	
Acute Tox. 4 - H302	
Acute Tox. 4 - H312	
Skin Corr. 1A - H314	
Eye Dam. 1 - H318	
Aquatic Chronic 3 - H412	
STYRENATED PHENOL	5-10%
CAS number: 61788-44-1	
Classification	
Skin Irrit. 2 - H315	
Eye Irrit. 2A - H319	
Skin Sens. 1A - H317	
Aquatic Chronic 2 - H411	
SALICYLIC ACID	1-5%
CAS number: 69-72-7	
Classification	
Acute Tox. 4 - H302	
Eye Dam. 1 - H318	
Repr. 2 - H361d	
1,3-BENZENEDIMETHANAMINE	1-5%
CAS number: 1477-55-0	
Classification	
Acute Tox. 4 - H302	
Acute Tox. 4 - H332	
Skin Corr. 1B - H314	
Skin Sens. 1B - H317	
Aquatic Chronic 3 - H412	

EF500R+ Part B

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

Description of first aid measures

Inhalation	Remove affected person from source of contamination. Get medical attention if any discomfort continues.
Ingestion	Do not induce vomiting. Get medical attention immediately.
Skin Contact	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing. Show this Safety Data Sheet to the medical personnel.

Most important symptoms and effects, both acute and delayed

Inhalation	Irritation of nose, throat and airway.
Ingestion	May cause stomach pain or vomiting.
Skin contact	Burning pain and severe corrosive skin damage. Blistering may occur. Chemical burns.
Eye contact	May cause blurred vision and serious eye damage.

Indication of any immediate medical attention and special treatment needed

Notes for the doctor	No specific recommendations. If in doubt, get medical attention promptly.
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SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media	Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.
Unsuitable extinguishing media	Do not use water, if avoidable.

Special hazards arising from the substance or mixture

Specific hazards	No specific firefighting precautions applicable when small quantities are involved in the fire.
Hazardous combustion products	Oxides of carbon. Oxides of nitrogen.

Advice for firefighters

Protective actions during firefighting	No specific firefighting precautions known.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.
Hazchem Code	2X

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet.
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Environmental precautions

Environmental precautions	Collect and dispose of spillage as indicated in Section 13. Contain spillage with sand, earth or other suitable non-combustible material. Avoid discharge into drains or watercourses or onto the ground.
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EF500R+ Part B

Methods and material for containment and cleaning up

Methods for cleaning up Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13.

Reference to other sections

Reference to other sections For personal protection, see Section 8. Collect and dispose of spillage as indicated in Section 13.

SECTION 7: Handling and storage, including how the chemical may be safely used

Precautions for safe handling

Usage precautions Avoid contact with skin. Avoid contact with eyes. Do not empty into drains.

Advice on general occupational hygiene Do not eat, drink or smoke when using this product. No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products.

Conditions for safe storage, including any incompatibilities

Storage precautions Keep away from food and drink. Keep container tightly sealed when not in use.

Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.

SECTION 8: Exposure controls and personal protection

Control parameters

Occupational exposure limits

1,3-BENZENEDIMETHANAMINE

Ceiling value: 0.1 mg/m³

Sk

Sk = Absorption through the skin may be a significant source of exposure.

Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection

The following protection should be worn: Tight-fitting safety glasses. Contact lenses should not be worn when working with this chemical.

Hand protection

Wear protective gloves made of the following material: Nitrile rubber.

Other skin and body protection

Avoid contact with skin. Wear appropriate clothing to prevent repeated or prolonged skin contact.

Hygiene measures

Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Use engineering controls to reduce air contamination to permissible exposure level.

Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn.

Environmental exposure controls

Keep container tightly sealed when not in use. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

EF500R+ Part B

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Buff.
Odour	Characteristic. Amine.
Odour threshold	Not determined.
pH	Not applicable.
Melting point	Not determined.
Initial boiling point and range	Not determined.
Flash point	>100°C Closed cup.
Evaporation rate	Not determined.
Evaporation factor	Not determined.
Flammability (solid, gas)	Not determined.
Flammability Limit - Lower(%)	Not determined.
Other flammability	Not applicable.
Vapour pressure	Not determined.
Vapour density	Not determined.
Relative density	1.4 - 1.5
Bulk density	Not available.
Solubility(ies)	Not determined.
Partition coefficient	Not determined.
Auto-ignition temperature	Not determined.
Decomposition Temperature	Not determined.
Viscosity	Not determined.
Explosive properties	No information available.
Explosive under the influence of a flame	Not considered to be explosive.
Oxidising properties	Does not meet the criteria for classification as oxidising.

SECTION 10: Stability and reactivity

Reactivity	The following materials may react with the product: Acids. Epoxides. Oxidising agents. Peroxides.
Stability	Stable at normal ambient temperatures and when used as recommended.
Possibility of hazardous reactions	The following materials may react with the product: Acids. Epoxides. Oxidising agents. Peroxides.
Conditions to avoid	No specific requirements are anticipated under normal conditions of use.

EF500R+ Part B

Materials to avoid Acids. Epoxides. Oxidising agents. Peroxides.

Hazardous decomposition products Oxides of carbon. Oxides of nitrogen.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 1,260.59

Acute toxicity - dermal

ATE dermal (mg/kg) 3,051.18

Acute toxicity - inhalation

ATE inhalation (dusts/mists mg/l) 58.23

Skin sensitisation

Skin sensitisation Sensitising.

Inhalation Vapour may irritate respiratory system/lungs.

Ingestion May cause stomach pain or vomiting.

Skin Contact May cause sensitisation by skin contact. May cause serious chemical burns to the skin.

Eye contact Risk of serious damage to eyes. May cause chemical eye burns.

Acute and chronic health hazards May cause sensitisation by skin contact. Causes severe burns.

Route of exposure Skin and/or eye contact Inhalation

Target Organs No specific target organs known.

Medical Symptoms Symptoms following overexposure may include the following: Chemical burns.

Toxicological information on ingredients.

1,3-CYCLOHEXANEBIS(METHYLAMINE)

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 700.0

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 1,700.0

Species Rabbit

STYRENATED PHENOL

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 2,000.0

EF500R+ Part B

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 2,000.0 mg/kg)

Species Rat

SALICYLIC ACIDAcute toxicity - oral

Acute toxicity oral (LD₅₀ 891.0 mg/kg)

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 2,000.0 mg/kg)

Species Rat

1,3-BENZENEDIMETHANAMINEAcute toxicity - oral

Acute toxicity oral (LD₅₀ 1,090.0 mg/kg)

Species Rat

ATE oral (mg/kg) 1,090.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 2,000.0 mg/kg)

Species Rat

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ dust/mist mg/l) 1.34

Species Rat

ATE inhalation (dusts/mists mg/l) 1.34

SECTION 12: Ecological information

Ecological information on ingredients.1,3-CYCLOHEXANEBIS(METHYLAMINE)Acute aquatic toxicity

Acute toxicity - fish LC50, > 96 hours: 100 mg/l, Leuciscus idus (Golden orfe)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 29 mg/l, Daphnia magna

EF500R+ Part B

Acute toxicity - aquatic plants	EC ₅₀ , > 96 hours: 100 mg/l, Scenedesmus subspicatus
Acute toxicity - terrestrial	EC ₅₀ , > 14 days: 1000 mg/kg, Eisenia Fetida (Earthworm)

STYRENATED PHENOL**Acute aquatic toxicity**

Acute toxicity - fish	LC50, 96 hours: 14.8 mg/l,
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 1-10 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: 3.14 mg/l, Scenedesmus subspicatus

Chronic aquatic toxicity

NOEC	0.01 < NOEC ≤ 0.1
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SALICYLIC ACID**Acute aquatic toxicity**

Acute toxicity - fish	LC50, 48 hours: 90 mg/l, Leuciscus idus (Golden orfe)
Acute toxicity - microorganisms	EC ₅₀ , > 3 hours: 3200 mg/l, Activated sludge

1,3-BENZENEDIMETHANAMINE**Acute aquatic toxicity**

Acute toxicity - fish	LC50, 96 hours: 75 mg/l, Leuciscus idus (Golden orfe)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 15.2 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: 12 mg/l, Scenedesmus subspicatus

Persistence and degradability

Persistence and degradability There are no data on the degradability of this product.

Bioaccumulative potential

Bioaccumulative Potential No data available on bioaccumulation.

Partition coefficient Not determined.

Mobility in soil

Mobility Mobile. The product is miscible with water and may spread in water systems.

SECTION 13: Disposal considerations**Waste treatment methods**

General information Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

Disposal methods Dispose of waste via a licensed waste disposal contractor.

SECTION 14: Transport information

EF500R+ Part B**UN number**

UN No. (ADG)	2735
UN No. (IMDG)	2735
UN No. (ICAO)	2735

UN proper shipping name

Proper shipping name (ADG)	AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS 1,3-CYCLOHEXANEBIS(METHYLAMINE), 1,3-BENZENEDIMETHANAMINE)
Proper shipping name (IMDG)	AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS 1,3-CYCLOHEXANEBIS(METHYLAMINE), 1,3-BENZENEDIMETHANAMINE)
Proper shipping name (ICAO)	AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS 1,3-CYCLOHEXANEBIS(METHYLAMINE), 1,3-BENZENEDIMETHANAMINE)

Transport hazard class(es)

ADG class	8
ADG classification code	C7
ADG label	8
IMDG class	8
ICAO class/division	8

Transport labels**Packing group**

ADG packing group	II
IMDG packing group	II
ICAO packing group	II

Environmental hazards**Environmentally hazardous substance/marine pollutant**

No.

Special precautions for user

IMDG Code segregation group	18. Alkalis
EmS	F-A, S-B
Hazchem Code	2X

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information**Safety, health and environmental regulations/legislation specific for the substance or mixture**

Guidance Workplace Exposure Limits EH40.

EF500R+ Part B**SECTION 16: Any other relevant information**

Revision comments	NOTE: Lines within the margin indicate significant changes from the previous revision.
Revision date	23/06/2020
Version number	4.000
Supersedes date	17/06/2020
SDS No.	21291
Hazard statements in full	H302 Harmful if swallowed. H312 Harmful in contact with skin. 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. H332 Harmful if inhaled. H361d Suspected of damaging the unborn child. H411 Toxic to aquatic life with long lasting effects. H412 Harmful 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.