SAFETY DATA SHEET

5300 EPOXY Shield ® MAXX (Base)

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product name and/or code : 5300 EPOXY Shield ® MAXX (Base)

Rust-Oleum Netherlands BV, PO. Box 138, NL-4700 AC Roosendaal, The Netherlands
NV Martin Mathys, Kolenbergstraat 23, B-3545 Zelem, Belgium

Emergency phone number : Rust-Oleum: (+31)165-593636; Fax (+31)165-593600
Martin Mathys: (+32)13-460200; Fax (+32)13-460201

e-Mail address of person responsible for this SDS : rpmeurohas@ro-m.com

Product use : Paint. Base for 2-component paint.

2. HAZARDS IDENTIFICATION

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : Xi; R41

Human health hazards : Risk of serious damage to eyes.

Additional warning phrases : Contains 3-aminomethyl-3,5,5-trimethylcyclohexylamine. May produce an allergic reaction.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances presenting a health or environmental hazard within the meaning of the Dangerous Substances Directive 67/548/EEC.

Chemical name	CAS #	%	EU no.	Classification	
2-(propyloxy)ethanol	2807-30-9	2.5 - 5	220-548-6	Xn; R21 Xi; R36	[1]
naphtha (petroleum), hydrodesulfurized heavy	64742-82-1	0 - 1	265-185-4	R10 Xn; R65 R66 N; R51/53	[1] [2]

See section 16 for the full text of the R-phrases declared above

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in section 8.

4. FIRST AID MEASURES

First aid measures

General : In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Give nothing by mouth. If unconscious, place in recovery position and seek medical advice.

Skin contact : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use solvents or thinners.

Eye contact : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open.

Ingestion : If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do not induce vomiting.

5. FIRE-FIGHTING MEASURES

Extinguishing media : Recommended: alcohol-resistant foam, CO_2, powders, water spray.
Not to be used : water jet.

Recommendations : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Appropriate breathing apparatus may be required. Cool closed containers exposed to fire with water. Do not release runoff from fire to sewers or waterways.

Hazardous combustion products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
metal oxide/oxides

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Due to the organic solvents content of the preparation:
Exclude sources of ignition and ventilate the area. Avoid breathing vapor or mist. Refer to protective measures listed in sections 7 and 8.

Spill : Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Do not allow to enter drains or watercourses. Preferably clean with a detergent. Avoid using solvents. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

Note: see section 8 for personal protective equipment and section 13 for waste disposal.

7. HANDLING AND STORAGE

Handling : Due to the organic solvents content of the preparation:

Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits.

Keep container tightly closed. Keep away from heat, sparks and flame.

Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this preparation. Avoid inhalation of dust from sanding.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.

Put on appropriate personal protective equipment (see section 8).

Comply with the health and safety at work laws.

Storage : Store in accordance with local regulations. Observe label precautions. Do not store below the following temperature: 4°C (39.2°F). Store in a cool, well-ventilated area away from incompatible materials and ignition sources. Keep away from heat and direct sunlight.

Due to the organic solvents content of the preparation:
Keep away from: oxidizing agents, strong alkalis, strong acids.
No smoking. Prevent unauthorized access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.
Do not empty into drains.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures : Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapors below the OEL, suitable respiratory protection must be worn.

Ingredient name	Occupational exposure limits
naphtha (petroleum), hydrodesulfurized heavy	**EH40-WEL (United Kingdom (UK), 6/2005).** STEL: 850 mg/m³, (as turpentine (150 ppm)) 15 minute(s). Form: Vapor TWA: 566 mg/m³, (as turpentine (100 ppm)) 8 hour(s). Form: Vapor

Exposure controls/personal protection

Occupational exposure controls : No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.
Recommended: organic vapor filter (Type A) (EN 140).

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
>8 hours (breakthrough time): PVC or nitrile rubber (EN 374)

Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. Recommended: Wear safety glasses with side shields to prevent eye contact. (EN 166)

Skin protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Wear overalls or long sleeved shirt. (EN 467)

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : Liquid.

Odor : Ammoniacal.

Color : Gray.

Flash point : Closed cup: >100°C (>212°F)

Boiling point : 301°C (573,8°F)

Vapor pressure : <2,7 kPa (<20 mm Hg)

Vapor density : <1 [Air = 1]

Volatility % : 59.7% (v/v), 45.1% (w/w)

Relative density (kg/L) : 1,32

10. STABILITY AND REACTIVITY

Stable under recommended storage and handling conditions (see section 7).

Hazardous decomposition products: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.

11. TOXICOLOGICAL INFORMATION

There is no data available on the preparation itself. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly. See sections 3 and 15 for details.

Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. If splashed in the eyes, the liquid may cause irritation and reversible damage.

Contains 3-aminomethyl-3,5,5-trimethylcyclohexylamine. May produce an allergic reaction.

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2-(propyloxy)ethanol	LD50 Dermal	Rabbit	960 uL/kg	-
	LD50 Oral	Rat	3090 mg/kg	-
	LD50 Oral	Rat	3089 mg/kg	-
naphtha (petroleum), hydrodesulfurized heavy	LD50 Dermal	Rabbit	>3000 mg/kg	-
	LD50 Oral	Rat	>6500 mg/kg	-
	LC50 Inhalation Vapor	Rat	>14 mg/L	4 hours

12. ECOLOGICAL INFORMATION

There is no data available on the preparation itself.
Do not allow to enter drains or watercourses.

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is not classified as dangerous for the environment but contains a substance or substances dangerous for the environment. See section 2 for details.

Aquatic ecotoxicity

Ingredient name	Test	Result	Species	Exposure
2-(propyloxy)ethanol	-	Acute LC50 >91,3 mg/L	Daphnia - daphnia	96 hours
naphtha (petroleum), hydrodesulfurized heavy	-	Acute EC50 4 to 10 mg/L	Daphnia	48 hours
	-	Acute IC50 10 to 100 mg/L	Algae	72 hours
	-	Acute LC50 10 to 100 mg/L	Fish	96 hours

Ecological information

Biodegradability

12. ECOLOGICAL INFORMATION

Conclusion/Remark : This product has not been tested for biodegradation.

Ingredient name	Aquatic half-life	Photolysis	Biodegradability
naphtha (petroleum), hydrodesulfurized heavy	-	100%; < 28 day(s).	-

Bioaccumulative potential

Ingredient name	$LogP_{ow}$	BCF	Potential
naphtha (petroleum), hydrodesulfurized heavy	>3	-	high

13. DISPOSAL CONSIDERATIONS

Do not allow to enter drains or watercourses.
Dispose of according to all federal, state and local applicable regulations.

European waste catalogue (EWC) : The European Waste Catalogue classification of this product, when disposed of as waste, is: 08 01 15* aqueous sludges containing paint or varnish containing organic solvents or other dangerous substances. If this product is mixed with other wastes, this code may no longer apply. If mixed with other wastes, the appropriate code should be assigned. For further information, contact your local waste authority.

Hazardous waste : Yes.

14. TRANSPORT INFORMATION

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

International transport regulations

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
ADR/RID Class	- -	-	-	-		-
IMDG Class	- -	-	-	-		-
IATA Class	- -	-	-	-		-

PG* : Packing group

This product is not regulated for carriage according to ADR/RID, IMDG, ICAO/IATA.

15. REGULATORY INFORMATION

EU regulations : The product is classified and labelled for supply in accordance with the Directive 1999/45/EC as follows:

Hazard symbol or symbols :

Irritant

Risk phrases : R41- Risk of serious damage to eyes.

Safety phrases : S2- Keep out of the reach of children.
S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S39- Wear eye/face protection.
S46- If swallowed, seek medical advice immediately and show this container or label.
S56- Dispose of this material and its container at hazardous or special waste collection point.

VOC for Ready-for-Use Mixture : IIA/j. Two-pack reactive performance coatings for specific end use such as floors. EU limit values: 140g/l (2007) 140g/l (2010.)
This product contains a maximum of 53 g/l VOC.

Europe inventory : **Europe inventory:** Not determined.

Other EU regulations

Additional warning phrases : Contains 3-aminomethyl-3,5,5-trimethylcyclohexylamine. May produce an allergic reaction.

CN code : 3209 90 00

16. OTHER INFORMATION

CEPE Classification : 2

Full text of R-phrases referred to in sections 2 and 3 - United Kingdom (UK) : R10- Flammable.
R21- Harmful in contact with skin.
R65- Harmful: may cause lung damage if swallowed.
R41- Risk of serious damage to eyes.
R36- Irritating to eyes.
R66- Repeated exposure may cause skin dryness or cracking.
R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

The information in this Safety Data Sheet is required pursuant to EU Directive 91/155/EEC and its amendments.

Indicates information that has changed from previously issued version.

Notice to reader

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.

SAFETY DATA SHEET

5301 EPOXY Shield ® MAXX (Activator)

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product name and/or code : 5301 EPOXY Shield ® MAXX (Activator)

Rust-Oleum Netherlands BV, PO. Box 138, NL-4700 AC Roosendaal, The Netherlands
NV Martin Mathys, Kolenbergstraat 23, B-3545 Zelem, Belgium

Emergency phone number : Rust-Oleum: (+31)165-593636; Fax (+31)165-593600
Martin Mathys: (+32)13-460200; Fax (+32)13-460201

e-Mail address of person responsible for this SDS : rpmeurohas@ro-m.com

Product use : Hardener for 2-component paint.

2. HAZARDS IDENTIFICATION

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : Xn; R68
Xi; R36/38
R43
N; R51/53

Human health hazards : Possible risk of irreversible effects. Irritating to eyes and skin. May cause sensitization by skin contact.

Environmental hazards : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Additional warning phrases : Contains epoxy constituents. See information supplied by the manufacturer. This information is provided by the current Safety Data Sheet.

The preparation may be a skin sensitizer. It may also be a skin irritant and repeated contact may increase this effect.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances presenting a health or environmental hazard within the meaning of the Dangerous Substances Directive 67/548/EEC.

Chemical name	CAS #	%	EU no.	Classification	
bisphenol-A-epoxy resin, avg.mol.wght. ≤ 700	25068-38-6	75 - 100	500-033-5	Xi; R36/38 R43 N; R51/53	[1]
2-(propyloxy)ethanol	2807-30-9	5 - 10	220-548-6	Xn; R21 Xi; R36	[1]
2,3-epoxypropyl o-tolyl ether	2210-79-9	5 - 10	218-645-3	Muta. Cat. 3; R68 Xi; R38 R43 N; R51/53	[1]
See section 16 for the full text of the R-phrases declared above					

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in section 8.

4. FIRST AID MEASURES

First aid measures

General : In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Give nothing by mouth. If unconscious, place in recovery position and seek medical advice.

Skin contact : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use solvents or thinners.

Eye contact : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open.

Ingestion : If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do not induce vomiting.

5. FIRE-FIGHTING MEASURES

Extinguishing media : Recommended: alcohol-resistant foam, CO_2, powders, water spray.
Not to be used : water jet.

Recommendations : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Appropriate breathing apparatus may be required. Cool closed containers exposed to fire with water. Do not release runoff from fire to sewers or waterways.

Hazardous combustion products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Exclude sources of ignition and ventilate the area. Avoid breathing vapor or mist. Refer to protective measures listed in sections 7 and 8.

Spill : Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Do not allow to enter drains or watercourses. Preferably clean with a detergent. Avoid using solvents. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

Note: see section 8 for personal protective equipment and section 13 for waste disposal.

7. HANDLING AND STORAGE

Handling : Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits.

Keep container tightly closed. Keep away from heat, sparks and flame. No sparking tools should be used.

Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this preparation. Avoid inhalation of dust from sanding.

Eating, drinking and smoking should be prohibited in area where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.

Put on appropriate personal protective equipment (see section 8).

Comply with the health and safety at work laws.

Storage : Store in accordance with local regulations. Observe label precautions. Do not store above the following temperature: 35°C (95°F). Store in a cool, well-ventilated area away from incompatible materials and ignition sources.

Keep away from: oxidizing agents, strong alkalis, strong acids.
No smoking. Prevent unauthorized access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.
Do not empty into drains.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures : Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapors below the OEL, suitable respiratory protection must be worn.

Occupational exposure limits : Not available.

Exposure controls/personal protection

Occupational exposure controls : No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment. Recommended: organic vapor filter (Type A) (EN 140).

Hand protection : For prolonged or repeated handling, use the following type of gloves: polyvinyl alcohol (PVA) (EN 374).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

Eye protection : Wear safety glasses with side shields to prevent eye contact. (EN 166).

Skin protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: overall (EN 467).

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : Liquid. [Thick, oily liquid.]

Odor : Bland.

Flash point : Closed cup: >130°C (>266°F)

Boiling point : >200°C (>392°F)

Vapor pressure : <0,013 kPa (<0,1 mm Hg)

Vapor density : >1 [Air = 1]

Evaporation rate (BuAc=1) : <1 (Ether (anhydrous). = 1)

Volatility % : 9.32% (v/v), 7.52% (w/w)

pH : 10 to 12

Relative density (kg/L) : 1,13

10. STABILITY AND REACTIVITY

Stable under recommended storage and handling conditions (see section 7).

Hazardous decomposition products: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.

11. TOXICOLOGICAL INFORMATION

There is no data available on the preparation itself. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly. See sections 3 and 15 for details.

Based on the properties of epoxy constituent(s) and considering toxicological data on similar preparations, this preparation may be a skin sensitizer and a severe irritant. It contains epoxy-based reactive diluents which are moderately to severely irritating to eyes, mucous membranes and skin and are strong sensitizers. Repeated skin contact may lead to irritation and to hypersensitivity, possibly with cross-sensitization to other epoxies. Single oral exposure to doses of the epoxy-based reactive diluents at or close to the lethal dose has been shown to cause transient neurotoxic effects in animals in some cases. However, uptake through skin and by inhalation has not caused such effects in animals. Prolonged exposure to high concentrations may cause adverse effects in target organs such as the liver and kidneys.

Contains bisphenol-A-epoxy resin, avg.mol.wght. ≤ 700 and 2,3-epoxypropyl o-tolyl ether. May produce an allergic reaction.

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
bisphenol-A-epoxy resin, avg.mol.wght. ≤ 700	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>11400 mg/kg	-
2-(propyloxy)ethanol	LD50 Dermal	Rabbit	960 uL/kg	-
	LD50 Oral	Rat	3090 mg/kg	-
	LD50 Oral	Rat	3089 mg/kg	-
2,3-epoxypropyl o-tolyl ether	LD50 Oral	Rat	4 g/kg	-

12. ECOLOGICAL INFORMATION

There is no data available on the preparation itself.
Do not allow to enter drains or watercourses.

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is classified for eco-toxicological properties accordingly. See sections 2 and 15 for details.

Aquatic ecotoxicity

Ingredient name	Test	Result	Species	Exposure

12. ECOLOGICAL INFORMATION

bisphenol-A-epoxy resin, avg.mol.wght. ≤ 700	-	Acute EC50 3,6 mg/L	Daphnia - daphnia	24 hours
	-	Acute IC50 220 mg/L	Algae	96 hours
	-	Acute LC50 9,4 mg/L	Fish - Zebra barbel	24 hours
	-	Acute LC50 3,1 mg/L	Fish - Fathead minnow	96 hours
	-	Acute LC50 1,5 mg/L	Fish - Rainbow trout (oncorhynchus mykiss)	96 hours
2-(propyloxy)ethanol	-	Acute LC50 >91,3 mg/L	Daphnia - daphnia	96 hours
2,3-epoxypropyl o-tolyl ether	-	Acute EC50 1 to 10 mg/L	Daphnia - Daphnia magna	24 hours
	-	Acute LC50 131 mg/L	Fish - Zebra barbel	96 hours
	-	Acute LC50 1 to 10 mg/L	Fish - Rainbow trout (oncorhynchus mykiss)	96 hours

Ecological information

Biodegradability

Ingredient name	Test	Result	Dose	Inoculum
bisphenol-A-epoxy resin, avg.mol.wght. ≤ 700	OECD 301B	12 % - Persistent - 28 days	-	-

Conclusion/Remark : This product has not been tested for biodegradation.

Ingredient name	Aquatic half-life	Photolysis	Biodegradability
bisphenol-A-epoxy resin, avg.mol.wght. ≤ 700	-	-	Not readily
2,3-epoxypropyl o-tolyl ether	-	-	Not readily

Bioaccumulative potential

Ingredient name	$LogP_{ow}$	BCF	Potential
bisphenol-A-epoxy resin, avg.mol.wght. ≤ 700	3 to 5	100 to 3000	high
2,3-epoxypropyl o-tolyl ether	>3	-	high

13. DISPOSAL CONSIDERATIONS

Do not allow to enter drains or watercourses.
Dispose of according to all federal, state and local applicable regulations.

European waste catalogue (EWC) : The European Waste Catalogue classification of this product, when disposed of as waste, is: 08 01 11* waste paint and varnish containing organic solvents or other dangerous substances. If this product is mixed with other wastes, this code may no longer apply. If mixed with other wastes, the appropriate code should be assigned. For further information, contact your local waste authority.

Hazardous waste : Yes.

14. TRANSPORT INFORMATION

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

International transport regulations

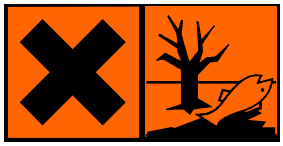
Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
ADR/RID Class	3082	Environmentally hazardous substance, liquid, n.o.s. (bisphenol-A-epoxy resin, avg.mol.wght. < 700)	9	III		**Hazard identification number** 90 **Limited quantity** LQ7 **Remarks** Limited Quantity - ADR/IMDG 3.4.6
IMDG Class	3082	Environmentally hazardous substance, liquid, n.o.s. (bisphenol-A-epoxy resin, avg.mol.wght. < 700)	9	III		**Emergency schedules (EmS)** F-A, S-F **Remarks** Limited Quantity - ADR/IMDG 3.4.6
IATA Class	3082	Environmentally hazardous substance, liquid, n.o.s. (bisphenol-A-epoxy resin, avg.mol.wght. < 700)	9	III		**Passenger and Cargo Aircraft** Packaging instructions: 914

PG* : Packing group

15. REGULATORY INFORMATION

EU regulations : The product is classified and labelled for supply in accordance with the Directive 1999/45/EC as follows:

Hazard symbol or symbols :



Irritant, Dangerous for the environment

Risk phrases : R68- Possible risk of irreversible effects.
R36/38- Irritating to eyes and skin.
R43- May cause sensitization by skin contact.
R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases : S2- Keep out of the reach of children.
S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S29/56- Do not empty into drains, dispose of this material and its container to hazardous or special waste collection point.
S36/37- Wear suitable protective clothing and gloves.
S46- If swallowed, seek medical advice immediately and show this container or label.
S61- Avoid release to the environment. Refer to special instructions/safety data sheet.

Contains : bisphenol-A-epoxy resin, avg.mol.wght. ≤ 700
2,3-epoxypropyl o-tolyl ether

VOC for Ready-for-Use Mixture : IIA/j. Two-pack reactive performance coatings for specific end use such as floors. EU limit values: 550g/l (2007) 500g/l (2010.)
This product contains a maximum of 53 g/l VOC.

Europe inventory : **Europe inventory:** All components are listed or exempted.

Other EU regulations

Additional warning phrases : Contains epoxy constituents. See information supplied by the manufacturer. This information is provided by the current Safety Data Sheet.

CN code : 3208 90 91

16. OTHER INFORMATION

CEPE Classification : 1

Full text of R-phrases referred to in sections 2 and 3 - United Kingdom (UK) : R68- Possible risk of irreversible effects.
R21- Harmful in contact with skin.
R68- Possible risk of irreversible effects.
R36- Irritating to eyes.
R38- Irritating to skin.
R36/38- Irritating to eyes and skin.
R43- May cause sensitization by skin contact.
R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

The information in this Safety Data Sheet is required pursuant to EU Directive 91/155/EEC and its amendments.

Indicates information that has changed from previously issued version.

Notice to reader

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.