



SAFETY DATA SHEET

Biosan ® Ultra Base

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

- Product name and/or code** : Biosan ® Ultra 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(0)165-593636; Fax +31(0)165-593600
 Martin Mathys: +32(0)13-460200; Fax +32(0)13-460201
- e-Mail address of person responsible for this SDS** : rpmeurohas@ro-m.com

2. HAZARDS IDENTIFICATION

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

- Classification** : Xi; R41
 N; R50/53
- Human health hazards** : Risk of serious damage to eyes.
- Environmental hazards** : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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
Modified polyamine-epoxy adduct, n.o.s., prepolymer	238080-05-2	10 - 25		Xn; R22 Xi; R41 [1]
quartz, respirable fraction	14808-60-7	1 - 2.5	238-878-4	Xn; R48/20 [1] [2]
triclosan	3380-34-5	0 - 1	222-182-2	Xi; R36/38 N; R50/53 [1]
zinc oxide	1314-13-2	0 - 1	215-222-5	N; R50/53 [1]
Polyethylene glycol octylphenyl ether	9036-19-5	0 - 1		Xi; R41, R38 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, CO₂, 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 drains or watercourses.

5. FIRE-FIGHTING MEASURES

Hazardous combustion products : Decomposition products may include the following materials:
sulfur oxides
metal oxide/oxides

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 : 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 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).

Never use pressure to empty. Container is not a pressure vessel. Always keep in containers made from the same material as the original one.

Comply with the health and safety at work laws.

When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapors in all cases. In such circumstances, they should wear a compressed-air-fed respirator during the spraying process and until the particulate and solvent vapor concentrations have fallen below the exposure limits.

Storage : Store in accordance with local regulations. Observe label precautions. 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.

Ingredient name

quartz, respirable fraction

Occupational exposure limits

EH40/2005 WELs (United Kingdom (UK), 8/2007).
TWA: 0,1 mg/m³ 8 hour(s). Form: respirable dust

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 : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Recommended: When spraying and sanding, suitable respiratory protection must be used.
- organic vapor (Type A) and particulate filter (EN 141)

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- 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. For prolonged or repeated handling, use the following type of gloves: nitrile rubber or polyvinyl alcohol (PVA) (EN 374) (breakthrough time) >8 hours .
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** : 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: safety glasses with side-shields (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: 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.
- Color** : Depending on productnumber
- Vapor pressure** : 2,3 kPa (17,3 mm Hg)
- Volatility %** : 50 to 52% (v/v), 34 to 36% (w/w)
- Viscosity** : Dynamic: 1500 to 2500 mPa·s (1500 to 2500 cP)
- Relative density (kg/L)** : 1,52 to 1,54

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.

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.

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
quartz, respirable fraction	LDLo Intratracheal	Rat	250 mg/kg	-
	LDLo Intravenous	Rat	90 mg/kg	-
	TDLo Intratracheal	Rat	25 mg/kg	-
	TDLo Intratracheal	Rat	1 mg/kg	-
	TDLo Intratracheal	Rat	150 mg/kg	-
	TDLo Oral	Rat	120 gm/kg	-
triclosan	LD50 Dermal	Rabbit	9300 mg/kg	-
	LD50 Intraperitoneal	Rat	89 mg/kg	-
	LD50 Intravenous	Rat	29 mg/kg	-
	LD50 Oral	Rat	3700 mg/kg	-
zinc oxide	LD50 Subcutaneous	Rat	3900 mg/kg	-
	LD Intratracheal	Rat	>4979 ug/kg	-
	LD Oral	Rat	>8437 mg/kg	-
	LD50 Intraperitoneal	Rat	>240 mg/kg	-
	LC50 Inhalation Dusts and mists	Mouse	2500 mg/m ³	4 hours
Polyethylene glycol octylphenyl ether	LD50 Dermal	Rat	770 mg/kg	-
	LD50 Oral	Rat	3600 mg/kg	-
	LD50 Oral	Rat	2800 mg/kg	-
	LD50 Oral	Rat	4190 mg/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	Result	Species	Exposure	
triclosan	Acute EC50 0,41 mg/L Fresh water	Daphnia - Water flea - Ceriodaphnia dubia - Neonate - <24 hours	48 hours	
	Acute EC50 0,24 mg/L Fresh water	Daphnia - Water flea - Ceriodaphnia dubia - Neonate - <24 hours	48 hours	
	Acute EC50 0,18 mg/L Fresh water	Daphnia - Water flea - Ceriodaphnia dubia - Neonate - <24 hours	48 hours	
	Acute EC50 0,15 mg/L Fresh water	Daphnia - Water flea - Ceriodaphnia dubia - Neonate - <24 hours	48 hours	
	Acute EC50 0,13 mg/L Fresh water	Daphnia - Water flea - Ceriodaphnia dubia - Neonate - <24 hours	48 hours	
	Acute EC50 0,12 mg/L Fresh water	Daphnia - Water flea - Ceriodaphnia dubia - Neonate - <24 hours	48 hours	
	Acute EC50 0,115 mg/L Fresh water	Daphnia - Water flea - Ceriodaphnia dubia - Neonate - <24 hours	48 hours	
	Acute EC50 0,13 ppm	Daphnia - Crustacea dubia	48 hours	
	Acute EC50 0,39 to 0,56 ppm Fresh water	Daphnia - Water flea - Daphnia magna - <24 hours	48 hours	
	Acute EC50 390 ug/L Fresh water	Daphnia - Water flea - Daphnia magna - <24 hours	48 hours	
	Acute IC50 0,000966 mg/L	Algae - Anabena flos-actua	72 hours	
	Acute IC50 0,0007 mg/L	Algae - Scenedesmus subspicatus	72 hours	
	Acute LC50 0,25 to 0,32 ppm Fresh water	Fish - Fathead minnow - Pimephales promelas	96 hours	
	Acute LC50 360 to 450 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas - 0,2 g	96 hours	
	Acute LC50 399 ug/L Fresh water	Fish - Medaka, high-eyes - Oryzias latipes - EMBRYO	96 hours	
	Acute LC50 288 to 493 ppb Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss	96 hours	
	Acute LC50 260 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas	96 hours	
	Acute LC50 602 ug/L Fresh water	Fish - Medaka, high-eyes - Oryzias latipes - LARVAE - 24 hours	96 hours	
	Acute LC50 370 ug/L Fresh water	Fish - Bluegill - Lepomis macrochirus	96 hours	
	zinc oxide	Acute EC50 >1000 ppm Fresh water	Daphnia - Water flea - Daphnia magna - <24 hours	48 hours
Acute LC50 >320 ppm Fresh water		Fish - Bluegill - Lepomis macrochirus	96 hours	
Acute LC50 1,1 to 2,5 ppm Fresh water		Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss	96 hours	
Acute LC50 24600 ug/L Fresh water		Daphnia - Water flea - Daphnia magna - Neonate - <24 hours	48 hours	
Acute LC50 2246000 ug/L Fresh water		Fish - Fathead minnow - Pimephales promelas - Neonate - <24 hours	96 hours	
Polyethylene glycol octylphenyl ether		Acute EC50 0,21 mg/L	Algae	96 hours
		Acute LC50 100000 to 200000 ug/L	Crustaceans - Aquatic sowbug - Sphaeroma serratum	48 hours
		Acute LC50 33000 to 100000 ug/L Marine water	Crustaceans - Common shrimp, sand shrimp - Crangon crangon - LARVAE	48 hours
		Acute LC50 10800 ug/L Marine water	Crustaceans - Aesop shrimp - Pandalus montagui - Adult	48 hours
		Acute LC50 8600 to 9800 ug/L Fresh water	Daphnia - Water flea - Daphnia magna - Neonate - <24 hours	48 hours
	Acute LC50 7200 ug/L Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss - 5 to 6 cm	96 hours	

Ecological information

Biodegradability

Conclusion/Remark : Not available.

Ingredient name

Ingredient name	Aquatic half-life	Photolysis	Biodegradability
triclosan	-	-	Not readily

Bioaccumulative potential

Ingredient name

Ingredient name	LogP _{ow}	BCF	Potential
triclosan	4,66	2530	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

14. TRANSPORT INFORMATION

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
ADR/RID Class	3082	Environmentally hazardous substance, liquid, n.o.s. (triclosan)	9	III	 	Limited quantity: LQ7 Remarks: (≤ 5L:) Limited Quantity - ADR/IMDG 3.4.6 ADR Tunnel Restriction Code: (E)
IMDG Class	3082	Environmentally hazardous substance, liquid, n.o.s. (Triclosan)	9	III	 	Emergency schedules (EmS): F-A + S-F Marine pollutant (P) Remarks: (≤ 5L:) Limited Quantity - ADR/IMDG 3.4.6
IATA Class	3082	Environmentally hazardous substance, liquid, n.o.s. (Triclosan)	9	III	 	Passenger and Cargo Aircraft Quantity limitation: - 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: R41- Risk of serious damage to eyes.
R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.**Safety phrases**: S23- Do not breathe spray.
S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S39- Wear eye/face protection.
S51- Use only in well-ventilated areas.**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 10 g/l VOC.**Europe inventory**: **Europe inventory:** Not determined.**Other EU regulations****CN code**

: 3209 10 00

Industrial use

: The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

16. OTHER INFORMATION

Full text of R-phrases referred to in sections 2 and 3 - United Kingdom (UK) :

- R22- Harmful if swallowed.
- R48/20- Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- R41- Risk of serious damage to eyes.
- R38- Irritating to skin.
- R36/38- Irritating to eyes and skin.
- R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 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. ©Copyright by Rust-Oleum Netherlands B.V. / Martin Mathys B.V.



Version	1.05	v.4.0.	Page: 6/6
Date of issue	22/04/2009.		Printed 18/05/2010.