



SAFETY DATA SHEET

Biosan ® Sealant

1. Identification of the substance/preparation and of the company/undertaking

Product name and/or code : Biosan ® Sealant
Manufacturer : Rust-Oleum Netherlands BV, PO. Box 138, NL-4700 AC Roosendaal, The Netherlands
 NV Martin Mathys, Kolenberg 23, B-3545 Zelem, Belgium
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2. Composition/information on ingredients

Substance/preparation : Preparation

Chemical name*	CAS No.	%	EC number	Classification
Europe				
Triclosan	3380-34-5	0 - 1	222-182-2	Xi; R36/38 N; R50/53
Ammonia	1336-21-6	0 - 1	215-647-6	C; R34 N; R50
See section 16 for the full text of the R Phrases declared above				

* Occupational Exposure Limit(s), if available, are listed in section 8

3. Hazards identification

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

Classification : R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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** : Inhalation not likely under normal use conditions.
- 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.

See section 11 for more detailed information on health effects and symptoms.

5. Fire-fighting measures

- Extinguishing Media** : Recommended: alcohol resistant foam, CO₂, powders, water spray.
Not to be used : waterjet.
- 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.
- Special fire-fighting procedures** : Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

6. Accidental release measures

- Personal precautions** : Refer to protective measures listed in sections 7 and 8.
- Spill** : Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth, and place in container for disposal according to local regulations (see section 13). Do not allow to enter drains or watercourses. Clean preferably with a detergent; avoid use of 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.
- Avoid contact with skin and eyes.
- 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. Do not store below 0°C (32°F). Must be stored in a dry location. Keep container in a well-ventilated place. Keep away from: Oxidizing agents, strong alkalis, strong acids.
- No smoking. Prevent unauthorized access. Containers that are 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.
- Hygiene measures** : Keep away from food, drink and animal feeding stuffs. After handling, always wash hands thoroughly with soap and water. Never eat, drink or smoke in work areas. Practice good personal hygiene when using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics. It is generally recognized that contact lenses should not be worn when working with chemicals because contact lenses may contribute to the severity of an eye injury.
- Occupational exposure limits** : Not available.
- Recommended monitoring procedures** : No special measures are required. General ventilation is typically sufficient. Provide eye wash and quick drench shower close to work station.
- Occupational exposure controls** : No special ventilation requirements.
- Personal protective equipment**
- Hands** : For prolonged or repeated handling, use gloves: nitrile.
- Barrier creams may help to protect the exposed areas of the skin, but should not be applied once exposure has occurred.
- Skin and body** : Disposable vinyl gloves.
- Eyes** : Use safety eyewear designed to protect against splash of liquids.

9. Physical and chemical properties

- Physical state** : Liquid.
- Color** : Depending on productnumber
- Specific gravity** : 1.3 (Water = 1)
- pH** : 8 to 9 [Basic.]
- Melting point** : 0°C (32°F)
- Boiling point** : >100°C (212°F)
- Nonflammable, but will burn on prolonged exposure to flame or high temperature.
- No unusual hazard if involved in a fire.
- Vapor pressure** : 2.3 kPa (17.3 mm Hg) (at 20°C)
- Evaporation rate** : <1 compared to Butyl acetate.

Solubility	: Soluble in cold water. Partially soluble in hot water.
Volatility (%)	: 33 to 36% (v/v). 25 to 28% (w/w).
VOC (W/W):	: <5 (g/l).

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 Chapters 2 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.

Potential acute health effects

Ingestion	: No known significant effects or critical hazards.
Inhalation	: Slightly hazardous in case of inhalation (lung irritant).
Skin contact	: No known significant effects or critical hazards.
Eye contact	: Slightly hazardous in case of eye contact (irritant).
Other toxic effects on humans	: No specific information is available in our database regarding the other toxic effects of this material for humans.

Acute Data (LD₅₀, LC₅₀) - Toxicity to Test Animals

<u>Ingredient name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
Triclosan	LD50	3700 mg/kg	Oral	Rat
	LD50	4530 mg/kg	Oral	Mouse
	LD50	9300 mg/kg	Dermal	Rabbit
Ammonia	LD50	350 mg/kg	Oral	Rat
	LDLo	750 mg/kg	Oral	Cat.
	LDLo	43 mg/kg	Oral	Human/30 min
	LC50	5000 (1 hour(s))	Inhalation	Human/30 min
	LC50	2000 (4 hour(s))	Inhalation	Rat

Potential chronic health effects

Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

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.

Ecotoxicity data

<u>Ingredient name</u>	<u>Result</u>	<u>Period</u>	<u>Species</u>
Triclosan	Daphnia magna (EC50)	48 hour(s)	0.39 mg/l
	Pimephales promelas (LC50)	96 hour(s)	0.25 mg/l
	Oncorhynchus mykiss (LC50)	96 hour(s)	0.26 mg/l
	Scenedesmus sub. (IC50)	72 hour(s)	0.0007 mg/l
	Crustacea dubia (EC50)	48 hour(s)	0.13 ppm
	Anabena flos-actua (IC50)	72 hour(s)	0.000966 mg/l
	Ammonia	Goldfish (LC50)	24 hour(s)
	Fathead minnow (pimephales promelas) (LC50)	48 hour(s)	7 mg/l

<u>Ingredient name</u>	<u>Persistence/degradability</u>						<u>Bioaccumulative potential</u>		
	BOD ₅	COD	ThOD	Aquatic half-life	Photolysis	Biodegradability	LogP _{ow}	BCF	Potential

Biosan® Sealant

Triclosan Ammonia		Not readily	4.66 -1.3	2530	high low
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Mobility : Non-volatile.

13. Disposal considerations

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

Methods of disposal ; : Type: Hazardous chemical waste.
Waste of residues ; : Location: European Union
Contaminated packaging : Classification: - (Not classified.)
Disposal.: via incineration
Storage: * (No specific storage is required. Use shelves or cabinets sturdy enough to bear the weight of the chemicals. Be sure that it is not necessary to strain to reach materials, and that shelves are not overloaded.)
Recycling: * (Not applicable.)

European waste catalogue (EWC) : 080409

14. Transport information**International transport regulations**

Regulatory Information	UN number	Proper shipping name	Class	Packing group	Label	Additional information
ADR/RID Class	--	-	-			Remarks Not controlled under ADR (Europe).
IMDG Class	--	-	-			Remarks Not controlled under IMDG.
IATA-DGR Class	--	-	-			Remarks Not controlled under IATA.

This preparation is not classified as dangerous according to international transport regulations, (ADR/RID, IMDG, ICAO/IATA).

15. Regulatory information

EU Regulations : The product is labelled as follows, in accordance with local regulations:

Risk Phrases : R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Safety Phrases : S61- Avoid release to the environment. Refer to special instructions/Safety data sheets.
Product use : Classification and labeling have been performed according to EU directives 67/548/EEC, 1999/45/EC including amendments and the intended use.
- Industrial applications.
EC Statistical classification (Tariff Code) : 3214 10 90

16. Other information

Full text of R-phrases appearing in section 2: : R34- Causes burns.
R36/38- Irritating to eyes and skin.
R50- Very toxic to aquatic organisms.
R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Designation of symbols in Section 2 : C - Corrosive
Xi - Irritant
N - Dangerous for the environment.

HISTORY

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Version : 1
Prepared by : RPM Europe - Department Environment, Health and Safety

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