



SAFETY DATA SHEET

Biosan® Aqua Plus Base

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

Product Name and/or Code : Biosan® Aqua Plus Base
Manufacturer : Rust-Oleum Netherlands BV, PO. Box 138, NL-4700 AC Roosendaal, The Netherlands
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2. Composition / information on ingredients

Substance/Preparation : Preparation

Chemical name*	CAS No.	%	EC Number	Classification
Modified polyamine-epoxy adduct, n.o.s., prepolymer	-	10-25	-	Xn; R22 Xi; R41
Quartz, respirable content	14808-60-7	5-10	238-878-4	Xn; R48/20, 68/20
Triclosan	3380-34-5	0-1	222-182-2	Xi; R36/38 N; R50/53
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 : R41- Risk of serious damage to eyes.
R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Effects and symptoms

Inhalation : Inhalation of spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath.

Ingestion : No data on acute toxicity of the product when ingested.

Skin Contact : May cause mild irritation with direct contact.

Eye Contact : Very hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, watering, and itching.

Aggravating conditions : Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

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 irregular breathing, or 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.

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

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.

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** : 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 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. 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 and spray 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).
- 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 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. 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.
- Hygiene measures** : Wash hands after handling compounds and before eating, smoking, using lavatory, and at the end of day.
- Occupational Exposure Limits** : Not available.
- Recommended monitoring procedures** :
- Personal protective equipment**
- Respiratory system** : If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators.
- Skin and body** : Personnel should wear antistatic clothing made of natural fibers or of high-temperature-resistant synthetic fibers.
- Hands** : For prolonged or repeated handling, use gloves: polyvinyl alcohol or nitrile.
- Barrier creams may help to protect the exposed areas of the skin, but should not be applied once exposure has occurred.
- Eyes** : Use safety eyewear designed to protect against splash of liquids.

9. Physical and chemical properties

Physical state	: Liquid.
Color	: Depending on productnumber
Boiling Point	: The lowest known value is 100°C (212°F) (Water).
Melting Point	: May start to solidify at 0°C (32°F) based on data for: Water.
Density	: 1.42 to 1.53 g/cm ³ (20°C / 68°F)
Vapor Pressure	: The highest known value is 2.3 kPa (17.3 mmHg) (at 20°C) (Water).
Solubility	: Easily soluble in methanol. Insoluble in cold water, hot water, n-octanol, acetone.
pH	: Basic.
Explosive properties	: Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.
Viscosity	: Dynamic: 1500 to 2500 cP
Volatility (w/v)	: 100% (v/v). (Water.) Weighted average: 55% (v/v) 100% (w/w). (Water.) Weighted average: 39% (w/w).
VOC (W/W):	: 0 (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 is classified for eco-toxicological properties accordingly. See Sections 2 and 15 for details. 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.

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

Local effects

Eye irritation : Very hazardous in case of eye contact (irritant).

Chronic toxicity : Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

Specific effects

Carcinogenic Effects : Classified PROVEN by DGA, 1 (Proven for human.) by IARC [Quartz, respirable content]. Classified None. by OSHA [Quartz, respirable content].

Mutagenic Effects : Not available.

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>Species</u>	<u>Period</u>	<u>Result</u>
Triclosan	Fathead minnow (pimephales promelas) (LC50)	96 hours	0.36 mg/l
	Fathead minnow (pimephales promelas) (LC50)	24 hours	>0.5 mg/l
	Rainbow trout (oncorhynchus mykiss) (LC50)	96 hours	0.288 mg/l
	Fathead minnow (pimephales promelas) (LC50)	96 hours	0.25 ppm
	daphnia magna (EC50)	48 hours	0.39 ppm

Persistence/degradability : Not available.

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 ; Waste of residues ; Contaminated packaging** : Type: Hazardous chemical waste.
 Location: European Union
 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.)
- Waste Handling and Disposal : Avoid disposal, make attempts to use product completely in accordance with intended use. Dispose as hazardous waste following applicable regulations. Empty container may be rinsed and disposed of as ordinary solid non-hazardous waste. Waste must be disposed of in accordance with federal, state and local environmental control regulations.
- Waste Classification** : Code: 080115 (08 01 15* aqueous sludges containing paint or varnish with organic solvents or other dangerous substances)
 Classification: Y12 (Waste category according the Basel Convention)
 Origin: * (Consult your local or regional authorities.)
- European Waste Catalogue (EWC)** : 080115
- Hazardous Waste** : The classification of the product may meet the criteria for a hazardous waste

14. Transport information

International transport regulations

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

Hazard symbol(s) :



Irritant

Risk Phrases : R41- Risk of serious damage to eyes.
 R52/53- Harmful 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.
 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, Used by Spraying.

EC Statistical Classification (Tariff Code) : 3209 10 00

16. Other information

Full text of R-phrases appearing in section 2 :

- : R22- Harmful if swallowed.
- R48/20- Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- R68/20- Harmful: possible risk of irreversible effects through inhalation.
- R36/38- Irritating to eyes and skin.
- R41- Risk of serious damage to eyes.
- 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

- : Xn - Harmful
- Xi - Irritant
- N - Dangerous for the environment.

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