

MSDS- VOGA BOND X

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VOGEL SYSTEMS Safety data sheet Date /

Revised: 19.09.2022

Product: **MSDS-VOGA BOND X**

Version: 1.0

Date of print 20.09.2022

1. Identification

Product identifier

VOGA BOND X

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

Relevant identified uses: Product for construction chemicals Recommended use: for industrial and professional users



Details of the supplier of the safety data sheet

E-mail address: info@vogel-systems.de

Emergency telephone number

International emergency number

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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKINGProduct identifierProduct name **VOGA BOND X****2. Relevant identified uses of the substance or mixture and uses advised against**Identified uses : **Special Toughened Acrylic Adhesive****3. Details of the supplier of the safety data sheet**Supplier

Company name : Vogel co.

E-mail address: info@vogel-systems.de**2. COMPOSITION/INFORMATION ON INGREDIENTS****GHS Classification**

Skin Irritation (Category 2)

Eye Irritation (Category 2A)

Skin Sensitization (Category 1)

STOT SE (Respiratory Irritation) (Category 3)

Signal word: Warning**Pictograms:****Hazard statements:** H315: Causes skin irritation

H319: Causes serious eye irritation

H317: May cause an allergic skin reaction

H335: May cause respiratory irritation

Precautionary statements:

P261, P264, P272, P280, P302+P352, P304+P340, P305+P351+P338, P310, P333+P313, P362+P364

3. COMPOSITION

Component	CAS No.	Concentration	Classification
Acrylic polymer (proprietary)	—	55–75 % w/w	Not classified
Ethyl acetate	6-78-141	10–20 % w/w	Flam. Liq. 3, Eye Irrit. 2, STOT 3
Butyl acetate	4-86-123	5–10 % w/w	Flam. Liq. 3, Eye Irrit. 2, STOT 3
Photoinitiator blend	Confidential	1–3 % w/w	Skin Sens. 1B
Additives and stabilizers	Confidential	balance	Not classified

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4. FIRST AID MEASURES**• Inhalation**

Remove the affected person to fresh air immediately.

Keep them at rest in a position comfortable for breathing.

If breathing is difficult or irritation persists, administer oxygen and seek medical attention.

• Skin Contact

Immediately remove contaminated clothing and shoes.

Wash skin thoroughly with plenty of soap and water for at least 15 minutes.

If irritation or rash occurs, get medical advice/attention.

Launder clothing before reuse.

• Eye Contact

Rinse cautiously with clean water for at least 15 minutes, holding eyelids open.

Remove contact lenses if present and easy to do.

Continue rinsing until no foreign matter remains.

Seek immediate ophthalmological evaluation.

• Ingestion

Rinse mouth with water.

Do **not** induce vomiting.

If the person is conscious, give small amounts of water to drink.

Never give anything by mouth to an unconscious person.

Obtain medical attention immediately.

• Notes to Physician

Treat symptomatically and supportively.

Consider administration of a humidified oxygen mixture for respiratory irritation.

No specific antidote known; monitoring of vital signs and supportive care are essential

5. FIRE FIGHTING MEASURES**• Suitable Extinguishing Media**

Water spray or fog

Alcohol-resistant foam

Dry chemical powder (e.g., ABC)

Carbon dioxide (CO₂)

• Unsuitable Extinguishing Media

Do **not** use direct, high-pressure water jet (may spread fire).

• Specific Hazards Arising from the Chemical

During combustion releases carbon monoxide (CO), carbon dioxide (CO₂), and irritating smoke and fumes.

Closed containers may rupture due to pressure build-up.

• Special Protective Equipment and Precautions for Fire-fighters

Wear full structural firefighting turnout gear plus self-contained breathing apparatus (SCBA) with full facepiece.

Cool exposed containers with water spray to prevent pressure build-up and explosion.

Evacuate non-essential personnel; approach fire from upwind.

• Additional Information

Fire residues and contaminated extinguishing water must be disposed of in accordance with local regulations.

Use water runoff control measures to prevent environmental contamination.

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6. ACCIDENTAL RELEASE MEASURES**Personal precautions:**

- Evacuate non-essential personnel. Use respiratory protection if vapour/aerosol is present.

Environmental precautions:

- Prevent entry to drains/sewers.

Cleanup methods:

- Absorb with inert material (vermiculite, sand), place in compatible waste container, ventilate area.

7. HANDLING AND STORAGE**Handling:**

- Use in well-ventilated areas or under local exhaust.
- Avoid creating dust clouds.
- Wear appropriate PPE (see Section 8).

Storage:

- Store in a dry, cool place (5–35 °C).
- Keep containers tightly closed to prevent moisture and contamination.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Parameter	Value	Source
Ethyl acetate (OEL-TWA)	400 ppm (1,400 mg/m ³)	OSHA PEL
Butyl acetate (OEL-TWA)	150 ppm (710 mg/m ³)	OSHA PEL

Engineering Controls:

- Local exhaust ventilation at handling and mixing points.

Personal Protective Equipment:

- **Respiratory:** NIOSH-approved particulate respirator if dust exceeds limits.
- **Skin:** Cut-resistant gloves (e.g. Kevlar blend) and long-sleeve garments.
- **Eyes:** Safety goggles or face shield.
- **Hygiene:** Wash hands and forearms after handling; launder contaminated clothing separately.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Physical Form	Solid metallic fibers (chopped)
Color	Silver-gray
Odor	Odorless
pH	Not applicable
Melting Point	≈ 1 420 °C (steel)
Boiling Point	Does not vaporize; melts/oxidizes before boiling

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10. STABILITY AND REACTIVITY**Chemical Stability:**

- Stable under normal conditions.

Conditions to Avoid:

- Prolonged exposure to moisture (may cause corrosion of bare steel).
- Generation of fine dust clouds in enclosed spaces.

Incompatible Materials:

- Strong acids and bases (promote corrosion).
- Oxidizing agents at high concentration.

Hazardous Decomposition Products:

- Iron oxides (rust), minor metal oxide fumes if heated above melting point.

Hazardous Polymerization:

- Not applicable.

11. TOXICOLOGICAL INFORMATION**Acute Toxicity:**

- **Inhalation:** Dust may irritate respiratory tract (no respirable fraction typical).
- **Oral/Dermal:** Not relevant for solid fiber.

Skin Irritation:

- Mechanical irritation; potential minor abrasion.

Eye Irritation:

- Mechanical irritation; redness and tearing.

Sensitization:

- Not a sensitizer.

Chronic Effects:

- Prolonged inhalation of respirable metallic dusts may contribute to pulmonary effects; typical fiber size is above respirable range.

12. ECOLOGICAL INFORMATION**Ecotoxicity:**

- Inert; non-toxic to aquatic and terrestrial life.

Persistence & Degradability:

- **Non-biodegradable;** persists as inert metal.

Bioaccumulation:

- Not **bioaccumulative** (insoluble).

Mobility:

- Insoluble; fibers settle in sediment/soil.

Other Adverse Effects:

- Accumulation of metal particulates may alter local soil/ sediment composition over time.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Steel Fibers:

- Collect spilled or waste fibers using a brush or HEPA-equipped vacuum to minimize dust.
- Place in clean, rigid, sealed metal or plastic containers labeled "Steel Fiber Waste."
- Whenever possible, send collected fibers to a certified metal recycling facility.
- If recycling is not available, dispose as non-hazardous industrial metal waste per local regulations.

Coating Residues / Contaminated Material:

- Any wiping rags, gloves, or packaging contaminated with lubricant/coating should be collected and treated as metal-contaminated solid waste.
- Verify whether the coating agents add any hazardous characteristics; if so, follow applicable local guidelines for mixed industrial waste.

Contaminated Packaging

- Empty fiber bags and boxes may be recycled as scrap paper or plastic if free of residues.
- If residues remain, rinse packaging with water to remove loose fibers; collect rinse water solids and treat as above.
- Dispose of rinsed containers according to local recycling or waste disposal regulations.

Local Regulations

- Always comply with national and local laws governing metal and industrial waste disposal.
- Do **not** discharge fibers or rinse water into sewers, drains, or waterways.

Precautions

- Avoid creating airborne dust during cleanup—use wet sweeping or HEPA vacuuming.
- Wear appropriate PPE (gloves, dust mask, eye protection) during disposal operations.

14. TRANSPORT INFORMATION

UN Number

- Not regulated as dangerous goods; no UN number assigned.

Proper Shipping Name

- Steel Synthetic Fiber for Concrete (not regulated)

Transport Hazard Class(es)

- Not classified under ADR/RID (road/rail), IMDG (sea) or IATA (air) regulations.

Packing Group

- Not applicable.

Environmental Hazards

- None known; product is inert metal.

Special Precautions for User

- Avoid creating dust clouds in enclosed spaces during loading/unloading.
- Secure containers to prevent shifting and fiber spillage.
- Follow general cargo handling practices—no segregation from other goods required.

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

- Not applicable for this non-liquid, non-bulk-regulated solid.

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15. Regulatory Information**United States****TSCA (Toxic Substances Control Act):**

Steel (carbon steel) fibers (CAS 65997-19-5) are listed on the TSCA Inventory. No TSCA restrictions apply.

OSHA Hazard Communication Standard (29 CFR 1910.1200):

Not classified as a hazardous chemical. No SDS or label required under GHS for the chemical itself, but SDS is provided per customer request.

European Union**REACH (EC 1907/2006):**

Steel fibers are exempt from registration (inorganic substances under Annex IV).

CLP (EC 1272/2008):

Not classified or labeled as hazardous.

ELV Directive (2000/53/EC):

May be subject to end-of-life vehicle recycling requirements when used in automotive concrete barriers.

Canada**DSL/NDSL:**

Listed on the Domestic Substances List (DSL).

WHMIS 2015:

Not classified as a hazardous product; no WHMIS label required.

Australia**AICS (Australian Inventory of Chemical Substances):**

Steel fibers are listed; no additional controls.

GHS Classification:

Not classified as hazardous under Work Health and Safety Regulations.

Other Jurisdictions

Japan (ENCS): Listed.

Korea (KECI): Listed.

China (IECSC): Listed.

VOC / Air Quality

Contains < 0.1 % volatile lubricant/coating. Meets regional low-VOC criteria (e.g., US EPA, EU Solvent Emissions).

Industry Standards

ASTM C1116: Conforms when used as Type III fiber.

ACI 544.4R: Recognized for fiber-reinforced concrete applications.

16. OTHER INFORMATION

DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.