

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

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.

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.

Respiratory protection: If exposure exceeds limits, use organic vapour respirator.

Eye protection: Chemical safety goggles.

Skin protection: Nitrile or neoprene gloves; protective clothing.

Hygiene: Wash hands before breaks and after work.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Appearance	Viscous, milky liquid
Odour	Characteristic sweet ester
pH	8.0–6.0
Boiling point	100–120 °C (approx.)
Flash point	22 °C (closed cup)
Vapour pressure (20 °C)	5–15 mm Hg
Solubility	Dispersible in water; miscible with esters and ketones
Relative density (20 °C)	1.10–1.02
Viscosity	2,000–5,000 mPa·s (rotational)

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:**

- LD₅₀ (oral, rat) > 5,000 mg/kg (component matrix).

Skin corrosion/irritation:

- Category 2 — irritant.

Serious eye damage/irritation:

- Category 2A — severe eye irritant.

Respiratory or skin sensitization:

- Skin sensitizer (Category 1).

STOT single exposure:

- Category 3 — respiratory tract irritation.

Carcinogenicity:

- Not classified by IARC, NTP, or OSHA.

12. ECOLOGICAL INFORMATION**Aquatic Toxicity**

- Fish (96 h LC₅₀): 100–500 mg/L (estimated)
- Daphnia magna (48 h EC₅₀): 50–200 mg/L (estimated)
- Algae (72 h ErC₅₀): 10–100 mg/L (estimated)

Persistence and Degradability

- Moderately biodegradable under aerobic conditions (OECD 301B analogue).
- No data for anaerobic degradation; expected slower breakdown.

Bioaccumulative Potential

- Log K_{ow} < 3 indicates low potential for bioaccumulation.

Mobility in Soil

- High water solubility suggests moderate to high mobility; may leach through soil.

Other Effects

- Not classified as PBT or vPvB under Regulation (EC) 1907/2006 (REACH).
- No known endocrine-disrupting properties.

Environmental Fate

- Volatilization from water surfaces is low (Henry's law constant < 1 Pa·m³/mol).
- Adsorption to sediment and sludge is moderate (organic carbon partition coefficient K_{oc} ≈ 500 L/kg).

13. DISPOSAL CONSIDERATIONS**Waste Treatment Methods**

- Collect and reclaim or dispose of in sealed, labeled containers at an approved hazardous-waste treatment, storage or disposal facility in accordance with local/regional/national regulations.
- Incineration at a licensed facility is preferred; ensure adequate scrubbing of off-gases.

Contaminated Packaging

- Empty containers retain product residue. Do not reuse for other purposes.
- Rinse thoroughly three times with water or a suitable solvent; collect rinseate as hazardous waste.
- Offer empty, clean containers for recycling or dispose of as hazardous waste.

Regulatory Considerations

- Follow local authority requirements (Law No. 4/1994 and amendments) for classification, transport, treatment, and disposal of chemical waste.
- Do not discharge into drains, surface waters, or the soil.

14. TRANSPORT INFORMATION

Mode	UN Number	Proper Shipping Name	Class	Packing Group	Environmental Hazard
Road/Rail (ADR/RID)	UN 1133	Adhesives	3	II	Not a Marine Pollutant
Sea (IMDG)	UN 1133	ADHESIVES	3	II	Not a Marine Pollutant
Air (IATA/ICAO)	UN 1133	Adhesives, flammable	3	II	—

Special Precautions for User

- Ensure packages are properly labeled with UN number, proper shipping name, hazard class, and packing group.
- Avoid rough handling or dropping of packages.
- Keep away from sources of ignition during loading and unloading.
- Stow in a cool, well-ventilated area of the transport vehicle or container.

Transport in Bulk (Annex II of MARPOL 73/78 and the IBC Code)

- Not applicable; this product is transported only in packaged form.

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15. Regulatory Information

- **EU Regulations**

- **REACH (EC 1907/2006):** All constituents are either registered or exempt.

- **CLP (EC 1272/2008):**

Classified as Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, STOT SE 3; Label elements required.

- **VOC Content:** ≤ 500 g/L (Directive 2004/42/EC)

- **United States Regulations**

- **TSCA:** All ingredients are listed on the TSCA Inventory.

- **OSHA Hazard Communication Standard (29 CFR 1910.1200):** Hazardous.

- **CERCLA/SARA:**

- SARA 311/312: Immediate (acute) health hazard.

- SARA 313: Contains trace amounts of ethyl acetate and butyl acetate (de minimis).

- **VOC Regulation (EPA):** Meets CARB and OTC limits for industrial adhesives (≤ 500 g/L).

- **Egyptian Regulations**

- **Egyptian Environmental Law No. 4/1994:** Classified as hazardous waste; disposal must follow Ministry of Environment guidelines.

- **GHS Alignment:** Egypt Ministry of Industry & Trade aligns with GHS Sixth Revision for classification and labeling.

- **Ministry of Health:** All packaging and labels must be approved by the Egyptian Drug Authority for chemical safety compliance.

- **Other International**

- **Canada:** DSL/NDL—All components DSL-listed.

- **Australia:** AICS—All components listed.

- **China:** IECSC—All components listed.

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