

**Safety Data Sheet**

according to 29 CFR 1910.1200(g)

**Bohle Metal Primer**

Revision date: 01/16/2024

Product code: BO5209488

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**1. Identification****Product identifier**

Bohle Metal Primer

**Further trade names**

BO 5209487, 500 ml  
BO 5209488, 100 ml  
BO 5209489, 1000 ml  
BO 52094895, 5000 ml

**Recommended use of the chemical and restrictions on use****Use of the substance/mixture**

metal adhesion promoter

**Details of the supplier of the safety data sheet****Manufacturer**

Company name:	BOHLE AG	
Street:	Dieselstr. 10	
Place:	D-42781 Haan	
Telephone:	+49 2129 5568-0	Telefax: +49 2129 5568-282
e-mail:	info@bohle.de	
Contact person:	Dr. Martin Schade	Telephone: +49 2129 5568-300
e-mail:	MSDS@bohle.de	
Internet:	www.bohle.com	
Responsible Department:	Chemie	

**Trader of the product**

Company name:	Bohle America, Inc.
Street:	10924 Granite Street, Suite 200
Place:	USA-NC 28273 Charlotte
e-mail (Contact person):	sales@bohle.com

**Emergency phone number:** Emergency CONTACT (24-Hour-Number):GBK GmbH +49 (0)6132-84463**2. Hazard(s) identification****Classification of the chemical****29 CFR Part 1910.1200**

Flammable liquids: Flam. Liq. 2  
Skin corrosion/irritation: Skin Irrit. 2  
Serious eye damage/eye irritation: Eye Irrit. 2A  
Specific target organ toxicity single exposure: STOT SE 3 (narcotic effects)

**Label elements****29 CFR Part 1910.1200****Signal word:** Danger**Pictograms:****Hazard statements**

Highly flammable liquid and vapor  
Causes skin irritation  
Causes serious eye irritation

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May cause drowsiness or dizziness

**Precautionary statements**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Keep cool.

Wear protective gloves/protective clothing/eye protection/face protection.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If eye irritation persists: Get medical advice/attention.

**3. Composition/information on ingredients**
**Mixtures**
**Hazardous components**

CAS No	Components	Quantity
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol	96.3 %
24599-21-1	2-(phosphonooxy)ethyl methacrylate	1.8 %
32435-46-4	Bis(methacryloyloxyethyl) hydrogen phosphate	1.8 %

**4. First-aid measures**
**Description of first aid measures**
**General information**

Take off immediately all contaminated clothing.

**After inhalation**

Move to fresh air. Consult a physician after significant exposure. If victim is unconscious but breathing: Victim to lie down in the recovery position, cover and keep him warm. Call a physician immediately.

**After contact with skin**

Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician.

**After contact with eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If eye irritation persists, consult a specialist.

**After ingestion**

Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Give sodium sulfate as laxative (1 tablespoon in 1 glass of water) with plenty of activated coal.

**Most important symptoms and effects, both acute and delayed**

No information available.

**Indication of any immediate medical attention and special treatment needed**

No information available.

**5. Fire-fighting measures**
**Extinguishing media**
**Suitable extinguishing media**

water spray, alcohol-resistant foam, dry chemical, carbon dioxide (CO<sub>2</sub>)

**Unsuitable extinguishing media**

high volume water jet

**Specific hazards arising from the chemical**

In use, may form flammable/explosive vapor-air mixture.

Fire may cause evolution of: Carbon monoxide, Carbon dioxide )

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#### Special protective equipment and precautions for fire-fighters

In the event of fire, wear self-contained breathing apparatus. Standard procedure for chemical fires.

#### **Additional information**

Use water spray to cool unopened containers.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

##### **General advice**

Use personal protective equipment. Keep people away from and upwind of spill/leak.

Ensure adequate ventilation.

Keep away from heat and sources of ignition.

Avoid contact with skin and eyes. Do not breathe vapour.

##### Environmental precautions

Do not flush into surface water or sanitary sewer system.

Due to danger of explosion, prevent leakage of vapors into cellars, flues and ditches.

Local authorities should be advised if significant spillages cannot be contained.

#### Methods and material for containment and cleaning up

##### **Other information**

Provide adequate ventilation. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect in closed and suitable containers for disposal.

#### Reference to other sections

Safe handling: see section 7

Personal protection equipment (PPE): see section 8

Disposal: see section 13

## 7. Handling and storage

#### Precautions for safe handling

##### **Advice on safe handling**

Provide adequate ventilation as well as local exhaust at critical locations.

Provide room air exhaust at ground level.

Avoid formation of aerosol. Do not breathe vapour/aerosol.

Avoid contact with the skin and the eyes.

##### **Advice on protection against fire and explosion**

Take precautionary measures against static discharges. Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Keep away from heat and sources of ignition. Do not smoke.

##### **Advice on general occupational hygiene**

Avoid contact with skin, eyes and clothing. Provide adequate ventilation. Take off all contaminated clothing immediately. Keep away from food, drink and animal feedingstuffs. When using do not eat or drink. Do not smoke. Wash hands before breaks and at the end of workday.

#### Conditions for safe storage, including any incompatibilities

##### **Requirements for storage rooms and vessels**

Keep containers tightly closed in a cool, well-ventilated place.

## 8. Exposure controls/personal protection

#### Control parameters

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**Exposure limits**

CAS No	Substance	ppm	mg/m <sup>3</sup>	f/cc	Category	Origin
67-63-0	Isopropyl alcohol	400	980		TWA (8 h)	PEL
		400	980		TWA (8 h)	REL
		500	1225		STEL (15 min)	REL

**Exposure controls**
**Appropriate engineering controls**

Even in case of a full release, due to the small amount of substances present, it is not expected that exposure limits will be reached. However it is the duty of the user to verify this and follow given exposure limits at the workplace.

**Individual protection measures, such as personal protective equipment**
**Eye/face protection**

safety glasses with side-shields conforming to EN166

**Hand protection**

The selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 derived from it.

Glove material: Butyl caoutchouc (butyl rubber)  $\geq 0,5\text{mm}$ , NBR (Nitrile rubber)  $\geq 0,35\text{mm}$

Breakthrough time:  $\geq 480$  min.

**Skin protection**

impervious clothing

**Respiratory protection**

This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

**9. Physical and chemical properties**
**Information on basic physical and chemical properties**

Physical state:	liquid
Color:	clear
Odor:	alcoholic

**Test method**

Melting point/freezing point:	-89,5 °C
Boiling point or initial boiling point and boiling range:	82 °C
Lower explosion limits:	2 vol. %
Upper explosion limits:	12 vol. %
Flash point:	12 °C
Auto-ignition temperature:	425 °C
pH-Value (at 20 °C):	ca. 3
Water solubility: (at 20 °C)	soluble
Vapor pressure: (at 20 °C)	48 hPa
Density (at 20 °C):	0,79 g/cm <sup>3</sup>

**Other information**
**Information with regard to physical hazard classes**

Explosive properties

In use, may form flammable/explosive vapour-air mixture.

Self-ignition temperature

not auto-flammable

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**Other safety characteristics**

Solvent content: 96 %  
 Viscosity / dynamic: 2,4 mPa·s  
 (at 20 °C)

**10. Stability and reactivity**
**Reactivity**

None under normal processing.

**Chemical stability**

Stability: Stable

No decomposition if used as directed.

**Possibility of hazardous reactions**

Hazardous reactions: May occur

Vapours may form explosive mixture with air.

**Conditions to avoid**

Keep away from heat and sources of ignition.  
 Take precautionary measures against static discharge.

**Incompatible materials**

strong acids and oxidizing agents

**Hazardous decomposition products**

None known.

**11. Toxicological information**
**Information on toxicological effects**
**Acute toxicity**

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol				
	oral	LD50 mg/kg	4570	Rat	
	dermal	LD50 mg/kg	13400	Rabbit	
	inhalation (4 h) vapour	LC50	30 mg/l	Rat	
24599-21-1	2-(phosphonoxy)ethyl methacrylate				
	oral	LD50 mg/kg	>2000	Rat	
32435-46-4	Bis(methacryloyloxyethyl) hydrogen phosphate				
	oral	LD50 mg/kg	>2000	Rat	

**Specific target organ toxicity (STOT) - repeated exposure**

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effect, such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous 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.

Carcinogenicity (OSHA): No ingredient of this mixture is listed.  
 Carcinogenicity (IARC): Isopropyl alcohol (CAS 67-63-0) is listed in group 3.  
 Carcinogenicity (NTP): No ingredient of this mixture is listed.

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**Information on other hazards**
**Endocrine disrupting properties**

This information is not available.

**12. Ecological information**
**Persistence and degradability**

Readily biodegradable, according to appropriate OECD test.

**Mobility in soil**

The product evaporates readily.

**Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**Other adverse effects**

This information is not available.

**Further information**

Water hazard class 1: slightly water endangering

Do not let product enter drains.

**13. Disposal considerations**
**Waste treatment methods**
**Disposal recommendations**

In accordance with local and national regulations.

**Contaminated packaging**

Non-contaminated packages may be recycled.

Contaminated packages must be completely emptied and can be re-used following proper cleaning.

cleaning agent : Water

**14. Transport information**
**U.S. DOT 49 CFR 172.101**

<b><u>UN number or ID number:</u></b>	UN 1219
<b><u>Proper shipping name:</u></b>	Isopropyl alcohol
<b><u>Transport hazard class(es):</u></b>	3
<b><u>Packing group:</u></b>	II
Hazard label:	3


**Marine transport (IMDG)**

<b><u>UN number or ID number:</u></b>	UN 1219
<b><u>UN proper shipping name:</u></b>	ISOPROPANOL (ISOPROPYL ALCOHOL)
<b><u>Transport hazard class(es):</u></b>	3
<b><u>Packing group:</u></b>	II
Hazard label:	3



Special Provisions:	-
Limited quantity:	1 L

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Excepted quantity: E2  
 EmS: F-E, S-D

**Air transport (ICAO-TI/IATA-DGR)**

**UN number or ID number:** UN 1219  
**UN proper shipping name:** Isopropanol  
**Transport hazard class(es):** 3  
**Packing group:** II  
 Hazard label: 3



Special Provisions: A180  
 Limited quantity Passenger: 1 L  
 Passenger LQ: Y341  
 Excepted quantity: E2  
 IATA-packing instructions - Passenger: 353  
 IATA-max. quantity - Passenger: 5 L  
 IATA-packing instructions - Cargo: 364  
 IATA-max. quantity - Cargo: 60 L

**Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**Special precautions for user**

none

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

not relevant

**15. Regulatory information**
**U.S. Regulations**
**National regulatory information**

SARA Section 311/312 Hazards:

Isopropyl alcohol (mfg-strong acid process) (67-63-0): Fire hazard, Immediate (acute) health hazard  
 2-(phosphonoxy)ethyl methacrylate (24599-21-1): Immediate (acute) health hazard  
 Bis(methacryloyloxyethyl) hydrogen phosphate (32435-46-4): Immediate (acute) health hazard

SARA Section 313 Toxic release inventory:

Isopropyl alcohol (mfg-strong acid process) (67-63-0): De minimis limit = 1.0 %, Reportable threshold = Standard

**State Regulations**
**Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)**

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

**16. Other information**
**Hazardous Materials Information Label (HMIS)**

Health: 1  
 Flammability: 3  
 Physical Hazard: 0

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**NFPA Hazard Ratings**

Health:	1
Flammability:	3
Reactivity:	0
Unique Hazard:	

**Changes**

Revision date:	01/16/2024
Revision No:	2,08

This data sheet contains changes from the previous version in section(s): 11,12.

**Other data**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*