

MATERIAL SAFETY DATA SHEET

(According to Regulation (EC) No 1907/2006 of the European Parliament as amended by Regulation 830/2015/EU)

Date of issue: 20 January 2017

Page: 1 / 7

Date of revision: 6 April 2018

Previous date: 22 March 2018

Version: 3.0

Product name:

Bochemit PREDATOR

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade Name: **Bochemit PREDATOR**

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

Intended/recommended use of the mixture: paint remover

Uses advised against: the product should not be used in any other way than specified above

1.3 Details of the supplier of the safety data sheet

Supplier: **BOCHEMIE a.s.**
Address: Lidická 326, 735 81 Bohumín, Česká republika
ID: 293 96 824
Phone number: +420 596 091 111
e-mail: bochemie@bochemie.cz
e-mail of person responsible for the Safety Data Sheet: MSDS@bochemie.cz

1.4 Emergency telephone number

Toxikologické informační středisko, Na Bojišti 1, 128 08 Praha 2, Czech Republic: +420 224 91 92 93 or +420 224 91 54 02.

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

According to Regulation No 1272/2008/EC

Flam. Liq. 2, H225; Eye Irrit. 2, H319

For the full text of hazard statements see section 16.

The most important adverse physicochemical, human health and environmental effects: Highly flammable liquid and vapour. Causes serious eye irritation.

2.2 Label elements

Hazard pictograms:



Signal word: **Danger**

Hazard statements: **H225** Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

Precautionary statements: **P102** Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P405 Store locked up.

P501 Dispose of contents/container according to regional legislation.

2.3 Other hazards

The mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Not relevant.

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3.2 Mixtures

Name of substance	(%)	EC CAS INDEX REACH	Classification according to Regulation 1272/2008/EC, CLP
1,3-dioxolan	<31.5	211-463-5 646-06-0 605-017-00-2 01-2119490744-29	Flam. Liq. 2, H225; Eye Irrit. 2, H319
dimethoxymethan	57	203-714-2 109-87-5 - 01-2119664781-31	Flam. Liq. 2, H225

For the full text of hazard statements see section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

In case of accident or if the person feels no well, immediately seek medical advice (show the product label).

Inhalation: Shut off source of exposure, if possible. Bring the person to the fresh air, keep at rest (avoid even walking) if necessary, seek medical attention.

Skin contact: Take off contaminated clothing, wash skin thoroughly with water and soap, seek medical attention.

Eye contact: Flush immediately with large amounts of fresh water at least 15 minutes to get the water under the eyelids; seek medical attention.

Ingestion: Rinse mouth with fresh water; give a glass of water to drink (0.2-0.3 L); give 8 crushed tablet of activated carbon (Carbosorb) in adequate amounts of water; induce vomiting if person is fully conscious; seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Exposure by ingestion and inhalation may cause headache, nausea, vomiting. It can cause eye irritation, narcotic effects, skin degreasing.

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment (show the label).

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable: water spray, extinguishing powder, CO₂, foam.

Unsuitable: use water full jet.

5.2 Special hazards arising from the substance or mixture

The product can release toxic fumes as carbon oxide. The thermal decomposition may release explosive mixture, which is heavier than air.

5.3 Advice for fire fighters

Wear personal protective clothing, suitable respiratory protection. Closed container with the product near the fire should be cooled with water. Do not allow run-off of contaminated fire extinguishing water to enter drains or surface water.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Do not inhale fumes; avoid contact with skin and eyes. Wear suitable protective clothing and gloves, as appropriate, goggles and equipment to protect the respiratory tract. In closed rooms, provide fresh air, ensure the ventilation. Remove all possible sources of ignition. No smoking and use of naked flames. Prevent contamination of the environment. In case of large spillage inform the competent authorities in accordance with applicable regulations.

6.2 Environmental precautions

Prevent release into the environment; do not get into the sewer system - danger of explosion. In case of release into sewers and water, dilute with plenty of water in accordance with local regulations, inform authorities in accordance with local legislation.

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6.3 Methods and material for containment and cleaning up

Geographic conditions, weather conditions (wind, temperature) can affect the emergency plans, consult it with local experts. In case spill the product, use suitable absorbents and put into the labelled container. Clean up contaminated place.

6.4 Reference to other sections

See section 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Ensure adequate ventilation of the area. Wear suitable protective clothing, gloves and eye protection. The vapours form explosive mixtures with air; avoid the strong oxidants. Electrostatic charge may be formed during use; use only earthed piping when repumping. The product should be used only in areas where is not contact with open fire and other ignition sources (no smoking, do not handle with naked flame). Use antistatic tools. Do not eat, drink or smoke. Important is to keep work areas clean and tidy.

7.2 Conditions for safe storage, including any incompatibilities

Store the mixture in original closed containers in dry, cold and well ventilated areas; storage temperature: from -30 to +30°C. Keep away from food, drink, fresh water and feed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Protect against direct sunlight.

7.3 Specific and use(s)

Important information is provided by instructions on the label or other documentation.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Exposure limits values

In accordance Regulation of Government No. 361/2007 of Czech Act Collection in last wording – not determined.

8.1.2 Biological limit values

Limits of biological exposure acc. to Decree No 432/2003 of Czech Act Collection – not determined.

8.1.3 Information monitoring procedures

Monitor the concentration in the workplace according the provisions of Regulation of Government No. 361/2007 of Czech Act Collection in last wording.

8.1.4 Value of DNEL and PNEC

1,3-dioxolan

DNEL

Long term exposure	systemic	worker	dermal	4.1 mg/kg/day
			inhalation	19 mg/m ³
	consumer	dermal	0.8 mg/kg/day	
		inhalation	5.7 mg/m ³	
		oral	75 mg/kg/day	

PNEC

Fresh water	19.7 mg/l
Marine water	1.97 mg/l
Sediment (fresh water)	77.7 mg/kg
Sediment (marine water)	7.77 mg/kg
Intermittent:	0.95 mg/l
Activated sludge	1 mg/l

Methylal (dimethoxymethane)

DNEL

Long term exposure	systemic	worker	dermal	22 mg/kg/day
			inhalation	132 mg/m ³
	consumer	dermal	5.7 mg/kg/day	
		inhalation	39 mg/m ³	
		oral	9.6 mg/kg/day	

PNEC

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Fresh water	14.577 mg/l
Marine water	1.4577 mg/l
Sediment (fresh water)	13.135 mg/kg
Sediment (marine water)	1.3135 mg/kg
Soil	4.6538 mg/kg
Activated sludge	10,000 mg/l

8.2 Exposure controls

8.2.1 Appropriate engineering controls

General safety and hygiene measures. Do not eat, drink or smoke. Ensure good ventilation/exhaustion at workplace.

8.2.2 Individual protection measures, such as personal protective equipment

Eye protection:	protective goggles
Skin protection:	protective clothing, closed shoes.
Hand protection:	wear gloves (PVA, nitrilkaučuk).
Respiratory protection:	respiratory protection with a filter against organic vapours.

8.2.3 Environmental exposure controls

Observe instructions for handling and storage, particularly ensure provisions preventing spill of concentrated mixture into watercourses, soil and sewerage (for further information see Handling Conditions according to Act No 254/2001 of Czech Act Coll., on Waters).

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance (at 20°C):	liquid
Colour:	colourless
Odour:	etheric
Odour threshold	not estimated
pH (at 20°C):	not estimated
Melting point:	not estimated
Freezing point:	not estimated
Boiling point:	45°C
Flash point:	-15°C
Evaporation rate:	not available
Flammability:	not available
Upper/lower flammability or explosive limits:	not available
Vapour pressure:	not estimated
Vapour density:	not available
Relative density (20°C):	0.96
Solubility:	not available
Partition coefficient: n-octanol/water:	not estimated
Auto-ignition temperature:	not flammable
Decomposition temperature (°C):	not available
Viscosity:	not applicable
Explosive properties:	non-explosive
Oxidising properties:	none

9.2 Other information

Volatile organic content (VOC): < 850 g/l.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

The mixture is flammable. It reacts with strong oxidising agents/acids.

10.2 Chemical stability

Stable in normal conditions of usage and storage.

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10.3 Possibility of hazardous reactions

Stable in normal conditions of usage and storage.

10.4 Conditions to avoid

Keep away from open flames, sparks, overheating, freezing.

10.5 Incompatible materials

Strong acids, strong oxidising agents.

10.6 Hazardous decomposition products

Formation of toxic products and fumes, carbon oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

- | | |
|---------------------------------------|--|
| a) acute toxicity: | Criteria for classification are not met based on available data. |
| b) skin corrosion/irritation: | Criteria for classification are not met based on available data. |
| c) serious eye damage/irritation: | Irritant. |
| d) respiratory or skin sensitisation: | Criteria for classification are not met based on available data. |
| e) germ cell mutagenicity: | Criteria for classification are not met based on available data. |
| f) carcinogenicity: | Criteria for classification are not met based on available data. |
| g) reproductive toxicity: | Criteria for classification are not met based on available data. |
| h) STOT-single exposure: | Criteria for classification are not met based on available data. |
| i) STOT-repeated exposure: | Criteria for classification are not met based on available data. |
| j) aspiration hazard: | Criteria for classification are not met based on available data. |

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

No available data for mixture.

methyal

Acute toxicity to Daphnia magna	EC50	>1200 mg/l/48 h
Acute toxicity to algae	EC50	>10 mg/l/72 h
Acute toxicity to fish	LC50	>1000 mg/l/96 h

12.2 Persistence and degradability

No available data for mixture. Dimethoxymethan and 1,3-dioxolane are not easy biodegradable.

12.3 Bioaccumulative potential

No available data for mixture. Dimethoxymethan and 1,3-dioxolane – no Bioaccumulative potential.

12.4 Mobility in soil

No available data for mixture.

12.5 Results of PBT and vPvB assessment

The mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Other adverse effects

No available data for mixture.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

a) Recommended Methods of Substance and Contaminated Packaging Disposal

According to Waste Catalogue, it is dangerous waste. Personal protective equipment should be used and provisions to be applied when handling and collecting wastes regarding protection of waste spill into environment. Used absorbents dispose of as dangerous waste. Contaminated packaging set by competent company as a dangerous waste.

b) Physical/chemical properties that may affect waste treatment options

Highly flammable. Reacts with acids, strong oxidising agents.

c) Sewage disposal shall be discouraged

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Not to dispose of waste into the sewage system.

d) Special precautions for any recommended waste treatment

Suggestion of waste classification

Subgroup 16 03 05* organic wastes containing dangerous substances

Suggestion of waste container classification

Containers with residues of the mixture:

15 01 10* packaging containing residues of or contaminated by dangerous substances.

Waste Legal Regulations:

Directive 2008/98/EC on waste and repealing certain Directives. If this mixture and its packaging become waste, the last user has to assign relevant waste code – European Waste Code (EWC code) according to Commission Decision (2000/532/EC).

SECTION 14: TRANSPORT INFORMATION

	ADR/RID/GGVSE	IMDG
14.1 UN Number:	UN 1993	UN 1993
14.2 UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. (1,3-dioxolan; methylal)	FLAMMABLE LIQUID, N.O.S. (1,3-dioxolan; methylal)
14.3 Transport hazard class:	3	3
14.4 Packing group:	II	II
14.5 Environmental hazards:	NO	NO
14.6 Special precautions for user:	--	--
Transport in bulk according to Annex II of MARPOL and the IBC Code:	--	--
Other information:		
Danger code (Kemler)	33	33
Limited quantities (LQ)	1 L	1 L

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Legislation regulating individual issues of the environmental protection and occupational hygiene conditions.

Regulation No 1907/2006/EC (REACH).

Regulation No 1272/2008/EC (CLP).

15.2 Chemical safety assessment

A Chemical Safety Assessment was not carried out for the mixture.

SECTION 16: OTHER INFORMATION

a) Changes during Revision of the MSDS

Version 3.0 – classification, labelling, exposure, new information, see black line on the left.

b) A key or legend to abbreviations and acronyms used

Flam Liq. 2 Flammable liquid cat. 2

Eye Irrit. 2 Eye Irritation cat. 2

vPvB Very Persistent and Very Bioaccumulative

PBT Persistent, Bioaccumulative and Toxic

DNEL Derived no-effect level

PNEC Predicted no-effect concentration

c) Key literature references and sources for data

Information contained herein is based on our best knowledge and current legislation, according to Reg.1272/2008/EC. Further, this Material Safety Data Sheet was elaborated on grounds of information provided by suppliers of particular components of the mixture. The MSDS contains information needed for security of safety and occupational health protection and the environmental protection. The mentioned information refers to present state of knowledge and experience and is in accordance with legislation in force. It cannot be considered warrantee of suitability or usability of the product for particular application.

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d) The methods of evaluating information

The mixture was classified according to method described in Regulation 1272/2008/EC.

e) List of relevant hazard statements

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

f) Instructions for Training

Personnel handling the preparation must be instructed about manipulation risks and on requirements for health and environmental protection (relevant provisions of the Labor Code as amended) and further, they must be demonstrably familiarized with dangerous properties, occupational health and environmental protection principles and first aid measures (Act No. 258/2000 Coll. on public health protection as amended).

g) Recommended Use Limitations

The mixture should not be used for any other purpose than determined (see section 1.2). As specific conditions of use of the substance are beyond control of the supplier, the user is the only responsible to adapt the information and warnings contained herein to local legislation and regulations. The safety information describes the product from perspective of its safety and it cannot be deemed technical specifications of the product.