

Bitumenreiniger

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Bitumenreiniger

UFI: XMW0-Q0M8-Y00P-3P09

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

Use of the substance/mixture

Solvent
Reserved for industrial and professional use.

Uses advised against

Do not use for private purposes (household).

1.3. Details of the supplier of the safety data sheet

Company name:	BITEX BIMOID AG	
Street:	Wilhofweg 9	
Place:	CH-6275 Ballwil	
Telephone:	+41 41 449 60 10	
E-mail:	info@bitexbimoid.ch	
Contact person:	Product Safety Department	Telephone: +41 41 449 60 10
E-mail:	info@bitexbimoid.ch	
Internet:	www.grisard.ch/bitex	

1.4. Emergency telephone number: Tel: +41 41 449 60 10

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Aerosol 1; H222-H229
Repr. 2; H361d
Skin Irrit. 2; H315
STOT SE 3; H335 H336
STOT RE 2; H373
Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

2.2. Label elements

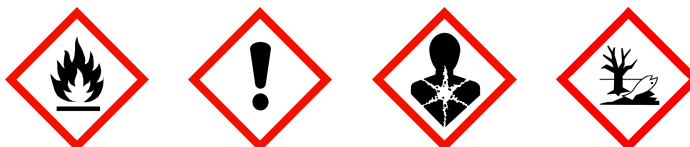
GB CLP Regulation

Hazard components for labelling

hydrocarbons, C9 aromatic
toluene

Signal word: Danger

Pictograms:



Hazard statements

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H315	Causes skin irritation.
H361d	Suspected of damaging the unborn child.

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Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
128601-23-0	918-668-5	hydrocarbons, C9 aromatic	35 - < 40 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000 mg/kg	
108-88-3	203-625-9	toluene	20 - < 25 %
		inhalation: LC50 = 28,1 mg/l (vapours); dermal: LD50 = >5000 mg/kg; oral: LD50 = 5580 mg/kg	
111-76-2	203-905-0	2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve	5 - < 10 %
		inhalation: ATE = 4500 ppm (gases); dermal: ATE = 1100 mg/kg; oral: LD50 = 480 mg/kg	

Labelling for contents according to Regulation (EC) No 648/2004

5 % - < 15 % aliphatic hydrocarbons, < 5 % non-ionic surfactants, perfumes.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove victim out of the danger area. Do not leave affected person unattended.

Remove contaminated, saturated clothing immediately.

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

If unconscious but breathing normally, place in recovery position and seek medical advice. Never give anything by mouth to an unconscious person or a person with cramps. First aider: Pay attention to self-protection!

After inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration.

If unconscious but breathing normally, place in recovery position and seek medical advice.

After inhaling vapours, first symptoms of poisoning may develop hours later, so always consult a doctor.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap.

In case of skin irritation, consult a physician.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. Protect uninjured eye.

Consult an ophthalmologist.

After ingestion

Do NOT induce vomiting. Observe risk of aspiration if vomiting occurs.

Rinse mouth immediately and drink plenty of water.

IF SWALLOWED: Immediately call a doctor.

4.2. Most important symptoms and effects, both acute and delayed

Dizziness, Headache, Depression of central nervous system

May cause drowsiness or dizziness.

4.3. Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray jet

Foam

Carbon dioxide (CO₂)

Extinguishing powder

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Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Highly flammable. Formation of explosible dust/air mixtures.

In case of fire may be liberated: Carbon monoxide (CO), COx

Vapours are heavier than air, spread along floors and form explosive mixtures with air.

5.3. Advice for firefighters

Co-ordinate fire-fighting measures to the fire surroundings. Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information

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

Use water spray jet to protect personnel and to cool endangered containers.

Suppress gases/vapours/mists with water spray jet.

Do not allow to enter into soil/subsoil.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Provide adequate ventilation.

Use personal protection equipment.

Keep away from sources of ignition - No smoking.

Avoid contact with skin, eyes and clothes.

Do not breathe gas/fumes/vapour/spray.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities. Danger of explosion.

6.3. Methods and material for containment and cleaning up**Other information**

Ventilate affected area.

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Ensure adequate ventilation of the storage area.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.

Take action to prevent static discharges.

Vapours may form explosive mixtures with air.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Wash hands and face before breaks and after work and take a shower if necessary. Keep away from food, drink and animal feedingstuffs. When using do not eat, drink, smoke, sniff.

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Further information on handling

- Take off contaminated clothing and wash it before reuse.
- Do not allow to enter into surface water or drains.
- Wash hands and face before breaks and after work and take a shower if necessary.
- Keep away from food, drink and animal feedingstuffs.
- When using do not eat, drink, smoke, sniff.
- Avoid prolonged or repeated contact with the skin.
- Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

- Keep container tightly closed. Keep/Store only in original container.
- Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaust at critical locations.
- Keep in a cool, well-ventilated place.
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Suitable floor material: Material, solvent-resistant
- Suitable container/equipment material: Stainless steel, Refined steel

Hints on joint storage

- Do not store together with: Oxidising agent, Food flavouring and nutrient

Further information on storage conditions

- Protect from direct sunlight.
- Keep away from sources of ignition - No smoking.
- Take action to prevent static discharges.

7.3. Specific end use(s)

Industrial uses, Professional uses: Solvent, Cleaning agent

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
111-76-2	2-Butoxyethanol	25	123		TWA (8 h)	WEL
		50	246		STEL (15 min)	WEL
106-97-8	Butane	600	1450		TWA (8 h)	WEL
		750	1810		STEL (15 min)	WEL
108-88-3	Toluene	50	191		TWA (8 h)	WEL
		100	384		STEL (15 min)	WEL

Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
111-76-2	2-Butoxyethanol	butoxyacetic acid (creatinine)	240 mmol/mol	urine	Post shift

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DNEL/DMEL values

CAS No	Substance		
DNEL type	Exposure route	Effect	Value
128601-23-0	hydrocarbons, C9 aromatic		
Consumer DNEL, long-term	oral	systemic	11 mg/kg bw/day
Worker DNEL, long-term	dermal	systemic	25 mg/kg bw/day
Consumer DNEL, long-term	dermal	systemic	11 mg/kg bw/day
Worker DNEL, long-term	inhalation	systemic	150 mg/m ³
Consumer DNEL, long-term	inhalation	systemic	32 mg/m ³
108-88-3	toluene		
Consumer DNEL, long-term	oral	systemic	8,13 mg/kg bw/day
Worker DNEL, long-term	dermal	systemic	384 mg/kg bw/day
Consumer DNEL, long-term	dermal	systemic	226 mg/kg bw/day
Worker DNEL, long-term	inhalation	systemic	192 mg/m ³
Consumer DMEL, long-term	inhalation	systemic	56,5 mg/m ³

PNEC values

CAS No	Substance	
Environmental compartment	Value	
108-88-3	toluene	
Freshwater	0,68 mg/l	
Marine water	0,68 mg/l	
Freshwater sediment	16,39 mg/kg	
Marine sediment	16,39 mg/kg	
Micro-organisms in sewage treatment plants (STP)	13,61 mg/l	
Soil	2,89 mg/kg	

8.2. Exposure controls



Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used.
Do not breathe gas/fumes/vapour/spray.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye/face protection.

Hand protection

Wash hands before breaks and after work.

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. (EN ISO 374)

Suitable material: FKM (fluoro rubber), Thickness of the glove material: 0,4mm, Breakthrough time:: 8h

Unsuitable material: Leather articles, NR (natural rubber, Natural latex), Butyl caoutchouc (butyl rubber), NBR (Nitrile rubber), CR (polychloroprene, chloroprene rubber), PVC (polyvinyl chloride).

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves

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mentioned above together with the supplier of these gloves.

Skin protection

Remove contaminated, saturated clothing.
Wear suitable protective clothing. Wear anti-static footwear and 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.

Environmental exposure controls

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Aerosols
Colour: colourless
Odour: characteristic

Test method

Changes in the physical state

Melting point/freezing point: not determined
Boiling point or initial boiling point and boiling range: 110-111 °C
Flash point: <20 °C Abel

Flammability

Solid/liquid: not applicable
Lower explosion limits: 0,5 vol. %
Upper explosion limits: 10 vol. %
Auto-ignition temperature: 240 °C

Self-ignition temperature

Solid: not relevant
Gas: not determined
pH-Value: not applicable
Viscosity / kinematic: not determined
Water solubility: practically insoluble

Solubility in other solvents

miscible with most organic solvents
Partition coefficient n-octanol/water: not determined
Vapour pressure: not determined
(at 20 °C)
Density (at 20 °C): 0,88 g/cm³
Relative vapour density: not determined

9.2. Other information

Other safety characteristics

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Highly flammable. Explosive.

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10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours may form explosive mixtures with air. Risk of explosion by shock, friction, fire or other sources of ignition. Remove all sources of ignition. Keep away from heat. Ignition hazard.

10.5. Incompatible materials

Oxidising agent

10.6. Hazardous decomposition products

No known hazardous decomposition products.
In case of fire may be liberated: Carbon dioxide (CO₂), Carbon monoxide (CO)

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Acute toxicity

Based on available data, the classification criteria are not met.

ATEmix calculated

ATE (oral) > 5000 mg/kg; ATE (dermal) > 5000 mg/kg; ATE (inhalation gas) > 50000 ppm

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
128601-23-0	hydrocarbons, C9 aromatic				
	oral	LD50 >2000 mg/kg	Rat		
	dermal	LD50 >2000 mg/kg	Rat		
108-88-3	toluene				
	oral	LD50 5580 mg/kg	Rat		
	dermal	LD50 >5000 mg/kg	Rabbit		
	inhalation (4 h) vapour	LC50 28,1 mg/l	Rat		
111-76-2	2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve				
	oral	LD50 480 mg/kg	Rat		
	dermal	ATE 1100 mg/kg			
	inhalation gas	ATE 4500 ppm			

Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation.
Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

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Suspected of damaging the unborn child. (toluene)
 Germ cell mutagenicity: Based on available data, the classification criteria are not met.
 Carcinogenicity: Based on available data, the classification criteria are not met.

STOT-single exposure

May cause respiratory irritation. (hydrocarbons, C9 aromatic)
 May cause drowsiness or dizziness. (hydrocarbons, C9 aromatic; toluene)

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure. (toluene)

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2. Information on other hazards

Endocrine disrupting properties

No information available.

SECTION 12: Ecological information

12.1. Toxicity

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
128601-23-0	hydrocarbons, C9 aromatic					
	Acute fish toxicity	LC50 mg/l	1-10	96 h		
108-88-3	toluene					
	Acute fish toxicity	LC50	5,5 mg/l	96 h		
	Acute algae toxicity	ErC50 mg/l	>100	96 h		
	Acute crustacea toxicity	EC50 mg/l	2,78	48 h	Daphnia magna (Big water flea)	
74-98-6	propane					
	Acute fish toxicity	LC50	28 mg/l	96 h	fish	
	Acute algae toxicity	ErC50 mg/l	7,71		algae	
106-97-8	butane					
	Acute fish toxicity	LC50	28 mg/l	96 h	fish	
	Acute algae toxicity	ErC50 mg/l	7,71		algae	
111-76-2	2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve					
	Acute fish toxicity	LC50 mg/l	1490	96 h	Lepomis macrochirus	OECD 203
	Acute algae toxicity	ErC50 mg/l	1840	72 h	Pseudokirchneriella subcapitata	OECD 201
	Acute crustacea toxicity	EC50 mg/l	1550	48 h	Daphnia magna (Großer Wasserfloh)	OECD 202

12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential

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Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
108-88-3	toluene	2,73
74-98-6	propane	2,36
106-97-8	butane	2,89

12.4. Mobility in soil

If product enters soil, it will be mobile and may contaminate groundwater.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

12.6. 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.

Further information

Avoid release to the environment.

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Dispose according to legislation.

List of Wastes Code - residues/unused products

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

List of Wastes Code - used product

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging

150104 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); metallic packaging

Contaminated packaging

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

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information**Land transport (ADR/RID)**

14.1. UN number or ID number:	UN 1950
14.2. UN proper shipping name:	AEROSOLS
14.3. Transport hazard class(es):	2
14.4. Packing group:	-
Hazard label:	2.1



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Classification code: 5F
 Special Provisions: 190 327 344 625
 Limited quantity: 1 L
 Excepted quantity: E0
 Transport category: 2
 Tunnel restriction code: D

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 1950
14.2. UN proper shipping name: AEROSOLS
14.3. Transport hazard class(es): 2
14.4. Packing group: -
 Hazard label: 2.1



Classification code: 5F
 Special Provisions: 190 327 344 625
 Limited quantity: 1 L
 Excepted quantity: E0

Marine transport (IMDG)

14.1. UN number or ID number: UN 1950
14.2. UN proper shipping name: AEROSOLS
14.3. Transport hazard class(es): 2.1
14.4. Packing group: -
 Hazard label: 2.1



Special Provisions: 63 190 277 327 344 381 959
 Limited quantity: 1000 mL
 Excepted quantity: E0
 EmS: F-D, S-U

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 1950
14.2. UN proper shipping name: AEROSOLS, FLAMMABLE
14.3. Transport hazard class(es): 2.1
14.4. Packing group: -
 Hazard label: 2.1



Special Provisions: A145 A167 A802
 Limited quantity Passenger: 30 kg G
 Passenger LQ: Y203
 Excepted quantity: E0
 IATA-packing instructions - Passenger: 203
 IATA-max. quantity - Passenger: 75 kg
 IATA-packing instructions - Cargo: 203
 IATA-max. quantity - Cargo: 150 kg

14.5. Environmental hazards

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ENVIRONMENTALLY HAZARDOUS: Yes

**14.6. Special precautions for user**

No information available.

14.7. Maritime transport in bulk according to IMO instruments

No information available.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 29, Entry 40, Entry 48

Directive 2010/75/EU on industrial emissions: 52%

Information according to Directive 2012/18/EU (SEVESO III): P3a FLAMMABLE AEROSOLS

Additional information: E2

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D): 2 - obviously hazardous to water

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information**Abbreviations and acronyms**

ADR: Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Dangerous Goods Code

IATA: International Air Transport Association

GHS: Global harmonisiertes System

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: lethal concentration, 50%

LD50: lethal dose, 50%

VOC: volatile organic compounds

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Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Aerosol 1; H222-H229	
Repr. 2; H361d	Calculation method
Skin Irrit. 2; H315	Calculation method
STOT SE 3; H335	Calculation method
STOT SE 3; H336	Calculation method
STOT RE 2; H373	Calculation method
Aquatic Chronic 2; H411	Calculation method

Relevant H and EUH statements (number and full text)

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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