

1 Identification**Product identifier****Trade name:** Blasogrind EDM 5**Article number:** 03275-50**Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

Application of the substance / the preparation:

For industrial use only

Metal working fluid

Details of the supplier of the safety data sheet**Manufacturer / Supplier:**

BLASER SWISSLUBE AG

Winterseistrasse 22

CH-3415 Hasle-Rüegsau

Switzerland

Tel.: +41 (0)34 460 01 01

Fax: +41 (0)34 460 01 00

E-mail: blaser@blaser.com

Blaser Swissslube (S) Pte. Ltd.

No. 1 Yishun Industrial Street 1

A'Posh Bizhub 05-08

Singapore 768 160

Phone: +65 (0) 6339 6881

Fax: +65 (0) 6339 6151

E-mail: singapore@blaser.com

Further information obtainable from:

Product Safety Department

E-mail: sds@blaser.com

Emergency telephone number:

For advice on chemical emergencies, spillages, fires or exposures: +65 3158 1074 (24h/7d)

2 Hazards identification**Classification of the substance or mixture:**

Acute Tox. 4 H332 Harmful if inhaled.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

Label elements**GHS label elements** The product is classified and labelled according to the Globally Harmonised System (GHS).**Hazard pictograms**

GHS07 GHS08

Signal word Danger**Hazard-determining components of labelling:**

1-Decene, dimer, hydrogenated

Hazard statements

H332 Harmful if inhaled.

H304 May be fatal if swallowed and enters airways.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P331 Do NOT induce vomiting.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

(Contd. on page 2)

SG/GB

Safety Data Sheet

according SS 586 : Part 3

Printing date 24.10.2018

Version number 8

Revision: 24.10.2018

Trade name: Blasogrind EDM 5

(Contd. of page 1)

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards None**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.

3 Composition/information on ingredients

Chemical characterisation: Mixtures**Description:** Mixture of substances listed below with nonhazardous additions.**Declarable, or hazardous components:****CAS-no.**

CAS: 68649-11-6	1-Decene, dimer, hydrogenated	Asp. Tox. 1, H304; Acute Tox. 4, H332	>80-<99%
NLP: 500-228-5			

Additional information:

Not mentioned CAS-, EINECS- or registration numbers are to be regarded as Proprietary/Confidential.

For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

Description of first aid measures**General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

Not applicable, as the concentrate is not volatile.

After skin contact: Generally the product does not irritate the skin.**After eye contact:** Rinse opened eye for several minutes under running water.**After swallowing:**

Do not induce vomiting; call for medical help immediately.

A person vomiting while laying on their back should be turned onto their side.

Information for doctor:**Most important symptoms and effects, both acute and delayed** Nausea / vomiting**Indication of any immediate medical attention and special treatment needed**

If swallowed or in case of vomiting, danger of entering the lungs.

Medical supervision for at least 48 hours.

5 Fire-fighting measures

Extinguishing media**Suitable extinguishing agents:** CO₂, powder or water spray. Fight larger fires with water spray.**For safety reasons unsuitable extinguishing agents:** Water with full jet**Special hazards arising from the substance or mixture** No further relevant information available.**Advice for firefighters****Protective equipment:** Mouth respiratory protective device.**Additional information** Cool endangered receptacles with water spray.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Not required.**Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

(Contd. on page 3)

SG/GB

Trade name: Blasogrind EDM 5

(Contd. of page 2)

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage**Handling:****Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

Observe the general safety regulations when handling chemicals.

Information about fire - and explosion protection: No special measures required.**Conditions for safe storage, including any incompatibilities****Storage:****Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.**Information about storage in one common storage facility:**

Do not store together with oxidising and acidic materials.

Store away from oxidising agents.

Further information about storage conditions:

Protect from heat and direct sunlight.

Optimal storage temperature between -10°C and +40°C.

Minimum shelf life: In closed original container, at least 36 months.

Specific end use(s) No further relevant information available.**8 Exposure controls/personal protection****Additional information about design of technical facilities:** No further data; see item 7.**Control parameters****Ingredients with limit values at the workplace:**General indication value for metalworking fluids (without obligation): 10 mg/m³.**Additional information:** The lists valid during the making were used as basis.**Exposure controls****Personal protective equipment:****General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Respiratory protection: Not required.**Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the resultant standard EN 374.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

The break through, among others, depending on material density and the type of glove and therefore must be determined in each individual case.

Gloves must be inspected prior to use. Replace when worn!

(Contd. on page 4)

SG/GB

Safety Data Sheet

according SS 586 : Part 3

Printing date 24.10.2018

Version number 8

Revision: 24.10.2018

Trade name: Blasogrind EDM 5

(Contd. of page 3)

Impervious gloves: nitrile rubber, minimum thickness of 0.3 mm.

Penetration time of glove material

The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Eye protector with side protection (framed eyeglasses) EN 166.**Body protection:** Protective work clothing

9 Physical and chemical properties

Information on basic physical and chemical properties**General Information****Appearance:**

Form:	Liquid
Colour:	Colourless
Odour:	Weak, characteristic
Odour threshold:	Not determined.

pH-value:	Not applicable.
------------------	-----------------

Change in condition:

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	>250 °C (DIN 51751 / ASTM D86)
Drip point:	Not applicable
Pour point:	<-60 °C (ISO 3016 / ASTM D97)

Flash point:	165 °C (ISO 2592 / ASTM D92)
---------------------	------------------------------

Flammability (solid, gas):	Not applicable.
Ignition temperature:	>350 °C (DIN 51794 / ASTM E659)

Decomposition temperature:	Not determined.
-----------------------------------	-----------------

Auto-ignition temperature:	Product is not selfigniting.
-----------------------------------	------------------------------

Explosive properties:	Product does not present an explosion hazard.
------------------------------	---

Explosion limits (@1013 mbar):

Lower:	0.6 Vol %
Upper:	6.5 Vol %

Oxidising properties	Not applicable.
-----------------------------	-----------------

Density at 20 °C:	0.8 g/cm ³ (DIN 51757 / ASTM D1217)
Vapour density	Not applicable.
Evaporation rate	Not determined.

Solubility in / Miscibility with water:	Insoluble.
--	------------

Partition coefficient: n-octanol/water:	Not determined.
--	-----------------

Viscosity:	
Kinematic at 40 °C:	5 mm ² /s (ISO 3104 / ASTM D445)

Other information:	safety relevant data, which has to be considered as product specifications.
---------------------------	---

10 Stability and reactivity

Reactivity None known if used as directed.**Chemical stability** Stable under recommended storage conditions.**Possibility of hazardous reactions**

Reacts with strong acids and oxidising agents.

Reacts with strong oxidising agents.

Conditions to avoid No further relevant information available.

(Contd. on page 5)

Trade name: Blasogrind EDM 5

(Contd. of page 4)

Incompatible materials: No further relevant information available.

Hazardous decomposition products: Carbon monoxide and carbon dioxide

11 Toxicological information

Information on toxicological effects

Acute toxicity

LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Inhalative	LD50	11 mg/L
------------	------	---------

Primary irritant effect:

Skin corrosion/irritation Contact may degrease the skin and cause skin inflammation (dermatitis).

Serious eye damage/irritation No irritating effect.

Respiratory or skin sensitisation No sensitising effects known.

Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful

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

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

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

STOT-single exposure Based on available data, the classification criteria are not met.

STOT-repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard May be fatal if swallowed and enters airways.

12 Ecological information

Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability No further relevant information available.

Behaviour in environmental systems:

Bioaccumulative potential No further relevant information available.

Mobility in soil No further relevant information available.

Additional ecological information:

General notes: Do not allow product to reach ground water, water course or sewage system.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects No further relevant information available.

13 Disposal considerations

Waste treatment methods

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

14 Transport information

UN-Number

ADR, ADN, IMDG, IATA

Not regulated

(Contd. on page 6)

SG/GB

Safety Data Sheet

according SS 586 : Part 3

Printing date 24.10.2018

Version number 8

Revision: 24.10.2018

Trade name: Blasogrind EDM 5

(Contd. of page 5)

UN proper shipping name ADR, ADN, IMDG, IATA	Not regulated
Transport hazard class(es) ADR, ADN, IMDG, IATA Class	Not regulated
Packing group ADR, IMDG, IATA	Not regulated
Environmental hazards: Marine pollutant:	No
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
Transport/Additional information:	Not dangerous according to the above specifications.
IATA	IATA Dangerous Goods Regulation (DGR): latest edition
UN "Model Regulation":	Not regulated

15 Regulatory information

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

Poisons Act - Schedule 1

None of the ingredients are listed.

Poisons Act - Schedule 2, Group II

None of the ingredients are listed.

Health Products Act - First Schedule - Psychotropic Substances

None of the ingredients are listed.

GHS label elements CLP/GHS label elements are issued under section 2.

National regulations:

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

Other regulations, limitations and prohibitive regulations

Substances of very high concern (SVHC) according to REACH, Article 57

This preparation does not contain any SVHC ("Substances of Very High Concern")

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Regulations / approvals / listings:

Information on REACH registration numbers in section 3:

If no REACH registration numbers on substances in section 3 are mentioned, then they are exempt from the REACH registration requirements (e.g. polymers).

RoHS:

The product is compliant with European Directives 2015/863/EC, 2011/65/EC, 2002/95/EC, WEEE 2002/96/EC, 2003/11/EC, 2005/53/EC and RoHS.

The following substances ARE NOT contained:

Pentabromodiphenylether, Octabromodiphenylether, polybrominated diphenylether (PDBE) and / or polybrominated biphenyls (PBB), Bis(2-ethylhexyl)phthalate (DEHP), Benzylbutylphthalate (BBP), Dibutylphthalate (DBP),

(Contd. on page 7)

SG/GB

Trade name: Blasogrind EDM 5

(Contd. of page 6)

Diisobutylphthalate (DIBP);

lead or it's compounds, cadmium or it's compounds, mercury or it's compounds, chromium Cr⁶⁺-compounds.**TSE/BSE:**

This product adheres to the standards of TSE/BSE-free products, according to European Community directives 93/42/EEC and 2003/32/EC.

Materials and/or synthetically modified materials which are of animal origin from bovine, ovine, goats, cats, dogs, deer, elk and/or mink, are NOT included in this product.

This product is entirely free from latex containing materials.

Relevant phrases

H304 May be fatal if swallowed and enters airways.

H332 Harmful if inhaled.

Department issuing SDS: Product Stewardship**Contact:** Mrs. Wilson + Mr. Feller**Editor's notice:**

The above mentioned data correspond to our present state of knowledge and experience. The safety data sheet serves as description of the products in regard to necessary safety measures. The indications have not the meaning of guarantees on properties.

Abbreviations and acronyms:

ICAO: International Civil Aviation Organisation

RoHS: Restriction of Hazardous Substances

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

ISO: International Organisation for Standardisation

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

ATE: Acute Toxicity Estimate

Acute Tox. 4: Acute toxicity – Category 4

Asp. Tox. 1: Aspiration hazard – Category 1

*** Data compared to the previous version altered.**

The asterisk (*) on the left side indicate the respective changes from the previous version.