

# Safety Data Sheet as per regulation (EC) 1907/2006

Commercial Product Name: Bauder PMMA Cleaner

Article-No.: GB81007010

Revision Date: 14.03.2022

Version: 2.0/en

**BAUDER**

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Replaces version from: 21.09.2018

Print date: 14.03.2022

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

### 1.1 Product identifier

Commercial Product Name **Bauder PMMA Cleaner**

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

Relevant identified uses cleaning agent

Recommended restrictions Reserved for industrial and professional use.

### 1.3 Details of the supplier of the safety data sheet

Company designation Bauder Ltd.  
70 Landseer Road  
Ipswich IP3 0DH  
Telephone: +44 (0)1473 257671

E-mail (competent person) [info@bauder.co.uk](mailto:info@bauder.co.uk)

### 1.4 Emergency telephone number

NPIS (National Poisons Information Service): 0344 892 0111 (for medical professionals only).

For medical advice, members of the public should contact NHS 111

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336

### 2.2 Label elements

Hazard pictogram



GHS02



GHS07

Signal word

Danger

Hazardous component(s) to be indicated on label

ethyl acetate

H-statement(s)

H225: Highly flammable liquid and vapour.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

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P-statement(s) P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233: Keep container tightly closed.  
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.  
P280: Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
P312: Call a POISON CENTER/doctor if you feel unwell.  
P337+P313: If eye irritation persists: Get medical advice/attention.  
P403+P233: Store in a well-ventilated place. Keep container tightly closed.

Further information EUH066: Repeated exposure may cause skin dryness or cracking.

## **SECTION 3: Composition/information on ingredients**

### **3.1 Hazardous ingredients**

Chemical characterization Ethyl acetate

### **Hazardous ingredients**

Ingredient	Numbers	Classification (EC) 1272/2008	Concentration
ethyl acetate	CAS No.: 141-78-6 EC-No.: 205-500-4 Index-No.: 607-022-00-5 REACH No.: 01-2119475103-46-XXXX	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	>= 95.0 - 100.0 % by weight

## **SECTION 4: First aid measures**

### **4.1 Description of first aid measures**

General advice Move out of dangerous area. Take off all contaminated clothing immediately. Do not leave the victim unattended. Show this safety data sheet to the doctor in attendance.

If inhaled Move to fresh air. If symptoms persist, call a physician. Show this safety data sheet to the doctor in attendance.

In case of skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation occurs, seek medical advice/attention.

In case of eye contact In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

If swallowed Rinse mouth. Do NOT induce vomiting. Call a physician immediately.

## **SECTION 5: Firefighting measures**

### **5.1 Extinguishing media**

Suitable extinguishing media Carbon dioxide (CO2), Foam, Water spray, Dry powder

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Extinguishing media which must not be used for safety reasons High volume water jet

## 5.2 Special hazards arising from the substance or mixture

Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases Hazardous decomposition products formed under fire conditions. Vapours may form explosive mixtures with air. Provide sufficient air exchange and/or exhaust in work rooms.

## 5.3 Advice for firefighters

Special protective equipment for firefighting In the event of fire, wear self-contained breathing apparatus.  
Additional information on fire-fighting Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Do not allow run-off from fire fighting to enter drains or water courses.

## SECTION 6: Accidental release measures

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

Personal precautions Use personal protective equipment.  
Ensure adequate ventilation. Pay attention to the spreading of gases especially at ground level (heavier than air) and to the direction of the wind.

### 6.2 Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.

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

Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Clean contaminated surface thoroughly.

### 6.5 Additional information

Other information Treat recovered material as described in the section "Disposal considerations".

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling Handle and open container with care. Avoid contact with skin and eyes. Processing may lead to evolution of flammable volatiles. In case of insufficient ventilation, wear suitable respiratory equipment.

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**Precautions** Smoking, eating and drinking should be prohibited in the application area. For personal protection see section 8. Observe label precautions.

**Advice on protection against fire and explosion** Take precautionary measures against static discharges. Vapours may form explosive mixture with air. Use water spray to cool unopened containers.

## 7.2 Conditions for safe storage, including any incompatibilities

**Storage space and container requirements** Keep in properly labelled containers. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Storage must be in accordance with the BetrSichV (Germany). Keep in a cool, well-ventilated place. Keep in an area equipped with solvent resistant flooring.

TRGS 510

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### ethyl acetate

##### Great Britain

Long-term exposure value/ ppm	Short-term exposure value / ppm	Source
200	400	EH40/2005 Workplace exposure limits (2011)

##### Europe

Long-term exposure value/ mg/m <sup>3</sup>	Long-term exposure value/ ppm	Short-term exposure value / mg/m <sup>3</sup>	Short-term exposure value / ppm	Issuing date	Source
734	200	1468	400	2017/164	DIRECTIVE 2009/161/EU

DNEL	Target group	Exposure route	Exposure frequency	Source
734 mg/m <sup>3</sup>	Workers	Inhalation	Long term effects systemic	Company data
734 mg/m <sup>3</sup>	Workers	Inhalation	Long term effects Local	Company data
1486 mg/m <sup>3</sup>	Workers	Inhalation	Acute Local effects	Company data
1486 mg/m <sup>3</sup>	Workers	Inhalation	Acute Local effects	Company data
63 mg/kg	Workers	dermal exposure	Long term effects systemic	Company data
367 mg/m <sup>3</sup>	Consumers	Inhalation	Long term effects systemic	Company data
367 mg/kg	Consumers	Inhalation	Long term effects Local	Company data
734 mg/m <sup>3</sup>	Consumers	Inhalation	Acute systemic	Company data
734 mg/m <sup>3</sup>	Consumers	Inhalation	Acute systemic	Company data
37 mg/kg	Consumers	dermal exposure	Long term effects systemic	Company data
4,5 mg/kg	Consumers	Oral	Long term effects systemic	Company data

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PNEC	Exposure route	Source
0,26 mg/l	fresh water	Company data
0,22 mg/l	Soil	Company data
0,34 mg/kg	sediment	Company data
650 mg/l	Waste water pretreatment	Company data

## 8.2 Exposure controls

Respiratory protection	Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust). Vapour during processing may be irritating to the respiratory tract and to the eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Remarks	Recommended Filter type: A2
Hand protection	Protective gloves complying with EN 374. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
Unsuitable material	woven fabric, Leather gloves
Suitable material	Nitrile
Eye protection	Tightly fitting safety goggles
Skin and body protection	Wear suitable protective equipment. Long sleeved clothing
General protective and hygiene measures	Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Wash hands before breaks and at the end of workday. Use protective skin cream before handling the product. Avoid contact with the skin and the eyes.
Engineering measures	Ensure adequate ventilation, especially in confined areas. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

## **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

Physical state	flüssig
Form	liquid
Colour	water light
Odour	fruit-like
Melting point [°C] / Freezing point [°C]	approx.-84°C

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Boiling point [°C]	77 °C
Flash point [°C]	-4°C
Evaporation rate [kg/(s m <sup>2</sup> )]	not determined
Explosion limits [Vol-% ]	
Lower limit	< 2,1% vol
Upper limit	11,5% vol
Vapour pressure [kPa]	100 hPa
Vapour density	not determined
Density [g/cm <sup>3</sup> ]	appr.0,9g/cm <sup>3</sup>
Temperature [°C]	20°C
Water solubility [g/l]	61g/l
Partition coefficient n-octanol /water (log P O/W)	0,60 not determined
Autoignition temperature [°C]	not determined
Viscosity, dynamic [kg/(m s)]	approx.0,44mPa.s
Temperature [°C]	20°C
Explosive properties	Not relevant In use, may form flammable/explosive vapour-air mixture.
Oxidising properties	Not relevant

## 9.2 Other information

Ignition temperature [°C]                      appr.460 °C

Evaporation rate (ether = 1) :                      2,9

## **SECTION 10: Stability and reactivity**

### 10.3 Possibility of hazardous reactions

Hazardous reactions                                      Risk of violent reaction.

### 10.4 Conditions to avoid

Conditions to avoid                                      Heat, flames and sparks.

### 10.5 Incompatible materials

Materials to avoid                                      Strong oxidizing agents, Strong acids and strong bases, Alkali metals

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Oral toxicity [mg/kg] 5600 mg/kg

Test criterion LD50

Test species rat

Dermal toxicity [mg/kg] 18000 mg/kg

Test criterion LD50

Test species rabbit

Inhalative toxicity [mg/l] 58 mg/l

Test criterion LC50

Test species rat

#### LC50 Inhalation 4h for vapours [mg/l]

##### Hazardous ingredients

ethyl acetate			
Value	Test criterion	Test species	Source
56 mg/l	LC50	rat	Company data

Irritant effect on skin No skin irritation

Test species rabbit

Irritant effect on eyes Mild eye irritant

Test species rabbit

Sensitization No sensitization responses were observed.

Measuring method OECD Test Guideline 406

Test species guinea pig

### 11.2 Additional information

Experience in practice Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Irritating to eyes, respiratory system and skin. Irritating to mucous membranes

## SECTION 12: Ecological information

### 12.1 Toxicity

Toxicity to fish [mg/l] 230 mg/l

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Toxicity to daphnia [mg/l] 717 mg/l

Toxicity to algae [mg/l] 3300 mg/l

## NOEC (daphnia) [mg/l]

### Hazardous ingredients

ethyl acetate			
Value	Test species	Exposure duration [h]	Source
2,4 mg/l	Daphnia magna (Water flea)	21 day(s)	Company data

## NOEC (algae) [mg/l]

### Hazardous ingredients

ethyl acetate			
Value	Test species	Measuring method	Source
> 101 mg/l	Desmodesmus subspicatus	OECD Test Guideline 201	Company data

## 12.2 Persistence and degradability

Biodegradability 100 %  
Duration 28 day(s)  
Remarks Readily biodegradable.

## 12.3 Bioaccumulative potential

### Bioaccumulation

#### Hazardous ingredients

ethyl acetate	
Value	Source
Bioaccumulation slight	Company data

## 12.6 Other adverse effects

Further information on ecology See also section 12.1

# SECTION 13: Disposal considerations

## 13.1 Waste treatment methods

Disposal considerations According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. The following Waste Codes are only suggestions:

Waste Code 07 02 04\* other organic solvents, washing liquids and mother liquors

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Uncleaned empty packaging

Empty containers should be taken for local recycling or waste disposal.  
Dispose of in accordance with local regulations.

## SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG	Air transport ICAO/IATA
14.1 UN-No	1173	1173	1173
14.2 Description of the goods	ETHYL ACETATE	ETHYLACETAT	Ethylacetat
UN proper shipping name		ETHYL ACETATE	Ethyl acetate
14.3 Transport hazard class(es)	3	3	3
14.4 Packaging group	II	II	II
Labels	3	3	3 - Flammable Liquid
Risk No.	33		
Category	2		
Factor	3		
Classification Code	F1		
Tunnel restriction code	D/E		
EmS		F-E;S-D	
Stowage category		B	

### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL and the IBC Code  
Not relevant

## SECTION 15: Regulatory information

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

Additional regulations  
Additionally, observe any national regulations!

Classification in compliance with the Industrial Safety Regulation  
highly flammable

GISCODE  
M-VM04

MAL-Code  
3-1

## SECTION 16: Other information

Relevant H-phrases  
H225: Highly flammable liquid and vapour.  
H319: Causes serious eye irritation.  
H336: May cause drowsiness or dizziness.

Wording of the hazard classes  
Flam. Liq.: Flammable liquid  
Eye Irrit.: Serious eye irritation  
STOT SE: Specific target organ toxicity - single exposure

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Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008[CLP]

Classification	Evaluation
Flam. Liq. 2; H225	Calculated
Eye Irrit. 2; H319	Calculated
STOT SE 3; H336	Calculated

Recommended restrictions

Reserved for industrial and professional use.

This information is provided in accordance with the current status of our knowledge and experience. The Safety Data Sheet describes products with a view to relevant safety requirements. This information does not constitute a warranty of properties, features or qualities.