Page 1 of 7

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 15.09.2015 / 0001 Replacing version dated / version: 15.09.2015 / 0001

Valid from: 15.09.2015 PDF print date: 16.09.2015

PMA/TOOLS Glass cleaner concentrate 1:80 (for 10 litres), 125 ml

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

1.1 Product identifier

PMA/TOOLS Glass cleaner concentrate 1:80 (for 10 litres), 125 ml

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

No information available at present.

Window cleaner

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

PMA/TOOLS AG, Siemensring 42, 47877 Willich, Germany Phone: +49 (0) 2154-9222-30, Fax: +49 (0) 2154-9222-55

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

1.4 Emergency telephone number

Emergency information services / official advisory body:

Telephone number of the company in case of emergencies:

+49 (0) 2154-922230 (Mo - Fr 8.00h - 18.00h)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 (CLP)

Hazard category Hazard class Hazard statement

Eye Irrit. H319-Causes serious eye irritation.

2.2 Label elements

Labeling according to Regulation (EC) 1272/2008 (CLP)



Warning

H319-Causes serious eye irritation.

P280-Wear eve protection/face protection.

P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313-If eye irritation persists: Get medical advice/attention.

EUH208-Contains (R)-p-mentha-1,8-diene. May produce an allergic reaction.

2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006. The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006.

SECTION 3: Composition/information on ingredients

3.1 Substance

3.2 Mixture

Fatty alcohol polyethylene glycol ether sulphate, sodium salt	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP	500-234-8 (NLP)
CAS	68891-38-3
content %	2,5-10

(GB)

Page 2 of 7

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 15.09.2015 / 0001 Replacing version dated / version: 15.09.2015 / 0001

Valid from: 15.09.2015 PDF print date: 16.09.2015

PMA/TOOLS Glass cleaner concentrate 1:80 (for 10 litres), 125 ml

Classification according to Regulation (EC) 1272/2008 (CLP)	Eye Irrit. 2, H319 Skin Irrit. 2, H315

Alcohol, (C12-15), ethoxylate	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP	500-195-7 (NLP)
CAS	68131-39-5
content %	<2,5
Classification according to Regulation (EC) 1272/2008 (CLP)	Acute Tox. 4, H302
	Eye Dam. 1, H318

(R)-p-mentha-1,8-diene	
Registration number (REACH)	
Index	601-029-00-7
EINECS, ELINCS, NLP	227-813-5
CAS	5989-27-5
content %	0,1-<0,25
Classification according to Regulation (EC) 1272/2008 (CLP)	Flam. Liq. 3, H226
	Skin Irrit. 2, H315
	Skin Sens. 1, H317
	Aquatic Acute 1, H400 (M=1)
	Aquatic Chronic 1, H410 (M=1)

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1/3.2 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation

Supply person with fresh air and consult doctor according to symptoms.

Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap. Call a doctor immediately, keep datasheet at hand

Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

Ingestion

Rinse the mouth thoroughly with water.

Give copious water to drink - consult doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.

In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

Watering eyes

Allergic reaction

4.3 Indication of any immediate medical attention and special treatment needed

n.c.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Adapt to the nature and extent of fire.

Water jet spray/foam/CO2/dry extinguisher

Unsuitable extinguishing media

None known

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Oxides of sulphur

Oxides of nitrogen

Toxic gases

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary.

Dispose of contaminated extinction water according to official regulations

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure sufficient supply of air.

Avoid contact with eyes or skin.

If applicable, caution - risk of slipping.

6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Prevent from entering drainage system.

Prevent surface and ground-water infiltration, as well as ground penetration.

6.3 Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and dispose of according to Section 13.

Page 3 of 7

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 15.09.2015 / 0001 Replacing version dated / version: 15.09.2015 / 0001

Valid from: 15.09.2015 PDF print date: 16.09.2015

PMA/TOOLS Glass cleaner concentrate 1:80 (for 10 litres), 125 ml

Flush residue using copious water. **6.4 Reference to other sections**

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling

7.1.1 General recommendations

Ensure good ventilation.

Avoid contact with eyes.

Avoid long lasting or intensive contact with skin.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room. Observe directions on label and instructions for use.

Use working methods according to operating instructions.

7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals

Not to be stored in gangways or stair wells.

Store product closed and only in original packing.

Protect from direct sunlight and warming.

Store at room temperature. Protect from frost.

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:

Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:

Chemical resistant protective gloves (EN 374).

If applicable

Safety gloves made of butyl (EN 374)

Protective Neoprene® / polychloroprene gloves (EN 374).

Protective nitrile gloves (EN 374)

Minimum layer thickness in mm:

Permeation time (penetration time) in minutes:

Protective hand cream recommended.

The breakthrough times determined in accordance with EN 374 Part 3 were not obtained under practical conditions.

The recommended maximum wearing time is 50% of breakthrough time.

Skin protection - Other:

Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection:

Normally not necessary

Thermal hazards:

Not applicable

Selection of materials derived from glove manufacturer's indications

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.3 Environmental exposure controls

No information available at present.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Page 4 of 7

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 15.09.2015 / 0001 Replacing version dated / version: 15.09.2015 / 0001

Valid from: 15.09.2015 PDF print date: 16.09.2015

PMA/TOOLS Glass cleaner concentrate 1:80 (for 10 litres), 125 ml

Physical state: Colour: Odour: Odour threshold:

pH-value: Melting point/freezing point: Initial boiling point and boiling range:

Flash point: Evaporation rate: Flammability (solid, gas): Lower explosive limit: Upper explosive limit: Vapour pressure: Vapour density (air = 1):

Density: Bulk density: Solubility(ies):

Water solubility:
Partition coefficient (n-octanol/water):
Auto-ignition temperature:

Decomposition temperature: Viscosity:

Explosive properties: Oxidising properties:

9.2 Other information

Miscibility: Fat solubility / solvent: Conductivity: Surface tension: Solvents content:

Liquid Red Characteristic

Not determined Not determined Not determined Not determined

Not determined n.a.

Not determined Not determined Not determined Not determined

Not determined n.a. Not determined Mixable

Not determined No Not determined

Not determined Not determined Not determined

Not determined

Not determined

Not determined Product is not explosive.

SECTION 10: Stability and reactivity

10.1 Reactivity

The product has not been tested.

10.2 Chemical stability

Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

No dangerous reactions are known

10.4 Conditions to avoid

None known

10.5 Incompatible materials

Avoid contact with strong oxidizing agents.

10.6 Hazardous decomposition products

No decomposition when used as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Possibly more information on health effects, see Section 2.1 (classification)

PMA/TOOLS Glass cleaner concentrate 1:80 (for 10 litres), 125 ml						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	ATE	>2000	mg/kg			calculated value
Acute toxicity, by dermal route:						n.d.a.
Acute toxicity, by inhalation:						n.d.a.
Skin corrosion/irritation:						n.d.a.
Serious eye damage/irritation:						n.d.a.
Respiratory or skin sensitisation:						n.d.a.
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity - single						n.d.a.
exposure (STOT-SE):						
Specific target organ toxicity -						n.d.a.
repeated exposure (STOT-RE):						
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.

Fatty alcohol polyethylene glycol ether sulphate, sodium salt						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	> 2000	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	> 2000	mg/kg	Rat		
Respiratory or skin sensitisation:				Guinea pig		Not sensitizising
Germ cell mutagenicity:					OECD 471 (Bacterial	Negative
					Reverse Mutation Test)	
Symptoms:					·	mucous membrane irritation

(R)-p-mentha-1,8-diene							
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes	
Symptoms:						diarrhoea, rash, itching, gastrointestinal disturbances, mucous membrane irritation, nausea and vomiting.	

SECTION 12: Ecological information

Page 5 of 7

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 15.09.2015 / 0001 Replacing version dated / version: 15.09.2015 / 0001

Valid from: 15.09.2015 PDF print date: 16.09.2015

PMA/TOOLS Glass cleaner concentrate 1:80 (for 10 litres), 125 ml

Possibly more information on environmental effects, see Section 2.1 (classification)

PMA/TOOLS Glass cleaner concentrate 1:80 (for 10 litres), 125 ml							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:							n.d.a.
Toxicity to daphnia:							n.d.a.
Toxicity to algae:							n.d.a.
Persistence and degradability:							n.d.a.
Bioaccumulative potential:							n.d.a.
Mobility in soil:							n.d.a.
Results of PBT and vPvB							n.d.a.
assessment							
Other adverse effects:							n.d.a.

Fatty alcohol polyethylene glycol ether sulphate, sodium salt								
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes	
Toxicity to fish:	LC50	96h	>1	mg/l			References	
Toxicity to daphnia:	EC50	48h	>1	mg/l	Daphnia magna		References	
Toxicity to algae:	EC50	72h	>1	mg/l			References	
Persistence and degradability:			98	%		OECD-Screening-		
						Test		

SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be

allocated under certain circumstances. (2014/955/EU)

20 01 29 detergents containing hazardous substances

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

E.g. suitable incineration plant.

E.g. dispose at suitable refuse site.

For contaminated packing material

Pay attention to local and national official regulations.

Empty container completely.

Uncontaminated packaging can be recycled

Dispose of packaging that cannot be cleaned in the same manner as the substance.

SECTION 14: Transport information

General statements

UN number:

Transport by road/by rail (ADR/RID)

UN proper shipping name: Transport hazard class(es):

LQ (ADR 2015):

Environmental hazards:

n.a.

n.a.

Not applicable

Tunnel restriction code:

Special precautions for user

Unless specified otherwise, general measures for safe transport must be followed.

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

Non-dangerous material according to Transport Regulations.

SECTION 15: Regulatory information

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

For classification and labelling see Section 2.

Observe restrictions:

Comply with trade association/occupational health regulations.

Observe youth employment law (German regulation).

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

n.a.

These details refer to the product as it is delivered.

Employee instruction/training in handling hazardous materials is required.

Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

Classification in accordance with regulation (EC) No. 1272/2008 (CLP)	Evaluation method used
Eye Irrit. 2, H319	Classification according to calculation procedure.

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3). H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H315 Causes skin irritation

Page 6 of 7

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 15.09.2015 / 0001 Replacing version dated / version: 15.09.2015 / 0001

Valid from: 15.09.2015 PDF print date: 16.09.2015

PMA/TOOLS Glass cleaner concentrate 1:80 (for 10 litres), 125 ml

H317 May cause an allergic skin reaction. H318 Causes serious eve damage H319 Causes serious eye irritation. H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Eye Irrit. — Eye irritation Skin Irrit. — Skin irritation Acute Tox. — Acute toxicity - oral Eye Dam. — Serious eye damage Flam. Liq. — Flammable liquid Skin Sens. — Skin sensitization

Aquatic Acute — Hazardous to the aquatic environment - acute Aquatic Chronic — Hazardous to the aquatic environment - chronic

Any abbreviations and acronyms used in this document:

AC Article Categories

according, according to acc., acc. to

ACGIH American Conference of Governmental Industrial Hygienists

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of

Dangerous Goods by Road)

AOEL Acceptable Operator Exposure Level AOX Adsorbable organic halogen compounds

approx. approximately

Árticle number

Art., Art. no. Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)

Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany) BAM BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)

BCF Bioconcentration factor

BGV Berufsgenossenschaftliche Vorschrift (= Accident Prevention Regulation)

BHT Butylhydroxytoluol (= 2,6-Di-t-butyl-4-methyl-phenol) **BMGV** Biological monitoring guidance value (EH40, UK)

BOD Biochemical oxygen demand

BSEF Bromine Science and Environmental Forum

bw body weight

CAS Chemical Abstracts Service

Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants and Other Fluids Comité Européen des Agents de Surface et de leurs Intermédiaires Organiques CEC

CESIO

CIPAC Collaborative International Pesticides Analytical Council

CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)

CMR carcinogenic, mutagenic, reproductive toxic Chemical oxygen demand

COD

CTFA Cosmetic, Toiletry, and Fragrance Association

DMEL Derived Minimum Effect Level DNEL Derived No Effect Level DOC Dissolved organic carbon

DT50 Dwell Time - 50% reduction of start concentration

DVS Deutscher Verband für Schweißen und verwandte Verfahren e.V. (= German Association for Welding and Allied Processes)

dw dry weight

e.g. EC for example (abbreviation of Latin 'exempli gratia'), for instance

European Community **ECHA** European Chemicals Agency European Economic Area
European Economic Community EEA EEC

EINECS European Inventory of Existing Commercial Chemical Substances

ELINCS European List of Notified Chemical Substances ΕN European Norms

United States Environmental Protection Agency (United States of America) FPA

Environmental Release Categories ERC

ES Exposure scenario et cetera etc. FU European Union **EWC** European Waste Catalogue Fax number Fax.

gen. GHS Globally Harmonized System of Classification and Labelling of Chemicals

GWP Global warming potential

M Hen's Egg Test - Chorionallantoic Membrane Halocarbon Global Warming Potential HET-CAM

HGWP IARC International Agency for Research on Cancer IATA IBC International Air Transport Association Intermediate Bulk Container IBC (Code) International Bulk Chemical (Code)

Inhibitory concentration

IMDG-code International Maritime Code for Dangerous Goods

including, inclusive incl.

IUCLID International Uniform Chemical Information Database

LC lethal concentration

LC50 lethal concentration 50 percent kill lowest published lethal concentration Lethal Dose of a chemical **LCLo**

LD LD50 Lethal Dose, 50% kill LDLo Lethal Dose Low

LOAEL Lowest Observed Adverse Effect Level Lowest Observed Effect Concentration LOEC

LOEL Lowest Observed Effect Level

Limited Quantities

MARPOL International Convention for the Prevention of Marine Pollution from Ships

n.a. not applicable

Page 7 of 7

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 15.09.2015 / 0001 Replacing version dated / version: 15.09.2015 / 0001

Valid from: 15.09.2015 PDF print date: 16.09.2015

PMA/TOOLS Glass cleaner concentrate 1:80 (for 10 litres), 125 ml

n.av. not available not checked n.c. n.d.a. no data available

NIOSH National Institute of Occupational Safety and Health (United States of America)

NOAEC No Observed Adverse Effective Concentration

NOAEL No Observed Adverse Effect Level NOEC No Observed Effect Concentration No Observed Effect Level NOEL ODP Ozone Depletion Potential

Organisation for Economic Co-operation and Development OECD

organic

org. PAH polycyclic aromatic hydrocarbon persistent, bioaccumulative and toxic PBT

Chemical product category

PC PE Polvethylene

PNEC Predicted No Effect Concentration POCP Photochemical ozone creation potential

parts per million ppm PROC Process category PTFE Polytetrafluorethylene

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and

Restriction of Chemicals)

REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.

Reglement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods

by Rail)

Self-Accelerating Decomposition Temperature Structure Activity Relationship SADT SAR

SU Sector of use

SVHC Substances of Very High Concern Tel. Telephone

ThOD Theoretical oxygen demand TOC Total organic carbon

TRGS Technische Regeln für Gefahrstoffe (=Technical Regulations for Hazardous Substances) UN RTDG United Nations Recommendations on the Transport of Dangerood State

VbF Verordnung über brennbare Flüssigkeiten (= Regulation for flammable liquids (Austria))

vPvB very persistent and very bioaccumulative

WEL-TWA, WEL-STEL WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period), WEL-STEL =

Workplace Exposure Limit - Short-term exposure limit (15-minute reference period) (EH40, UK).

World Health Organization WHO

wwt wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility

These statements were made by: Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90

© by Chemical Check GmbH Gefahrstoffberatung. The copying or changing of this document is forbidden except with consent of the Chemical Check GmbH Gefahrstoffberatung.