

MSA AUER Clear Pilot

D050021101

Revision no.: 4,00

Revision date: 09.06.2011

Print date: 10.06.2011

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1. Identification of the substance/mixture and of the company/undertaking

Product identifier: MSA AUER Clear Pilot
Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture: Anti-fog agent for the treatment of glasses (protection masks) and eyeglasses
Uses advised against: The product is to be used exclusively for the applications named in the technical leaflet or in the processing instructions.

Details of the supplier of the safety data sheet

Company name: MSA AUER GmbH
Street: Thiemannstrasse 1
Place: D-12059 Berlin
Telephone: ++49-30-6886-0
Telefax: ++49-30-6886-1558
Emergency telephone: 1-800-255-3924 USA/CDN
++1-813-248-0585 internat.

Further Information: Apply Safety data sheet to the following products:
Part-No.
10032164

2. Hazards identification

Classification of the substance or mixture: This mixture is not classified as dangerous according to Directive 1999/45/EC.
Label elements
S phrases: 25 Avoid contact with eyes.
Additional advice on labelling: The product does not need to be labelled in accordance with EC directives or respective national laws.
Other hazards: May cause irritation of the mucous membranes (slight irritation to the mucous membrane)

3. Composition/information on ingredients

Mixtures
Chemical characterization: Contains anionic tensides and non-ionic tensides (in each case < 1 %), mixture of alcohols

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Hazardous components

EC No.	Chemical name	Quantity
CAS No.	Classification	
Index No.	GHS classification	
REACH No.		
200-661-7	propan-2-ol; isopropyl alcohol; isopropanol	< 5 %
67-63-0	F, Xi R11-36-67	
603-117-00-0	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336	

Full text of R- and H-phrases: see section 16.

4. First aid measures

Description of first aid measures

General information:

Remove soiled clothing.

After inhalation:

Move to fresh air.

After contact with skin:

Wash off with plenty of water.

After contact with eyes:

In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Remove contact lenses, if applicable.

After ingestion:

Do not induce vomiting. Immediately give large quantities of water to drink. Consult a physician.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media:

foam, dry chemical, sand.

Extinguishing media which must not be used for safety reasons:

High volume water jet.

Special hazards arising from the substance or mixture:

None known.

Advice for firefighters:

Wear self-contained breathing apparatus for fire fighting, if necessary.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Avoid contact with eyes. Contact with mucous membranes avoid.

Environmental precautions:

Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system.

Methods and material for containment and cleaning up:

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).

Reference to other sections:

Disposal in accordance with the official regulations. - See section 13.

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7. Handling and storage

Precautions for safe handling

Advice on safe handling: No special precautions required.

Advice on protection against fire and explosion: No special precautions required.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels: Protect from freezing.

8. Exposure controls/personal protection

Control parameters

Exposure limits (EH40)

CAS No.	Chemical name	ml/m ³	mg/m ³	F/ml	Category	Origin
67-63-0	Propan-2-ol	400	999		TWA (8 h)	WEL
		500	1250		STEL (15 min)	WEL

Exposure controls

Occupational exposure controls: No special precautions required.

Protective and hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.

Respiratory protection: Not required.

Hand protection: Protective gloves. Safety gloves should be selected for the actual conditions of use and in accordance with the instructions for use provided by the manufacturer.

Eye protection: None under normal use.
Use protective goggles when transferring. Safety glasses with side-shields.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state: Liquid

Colour: Transparency yellowish-orange

Odour: Perfume

Test method

pH-Value: approx. 7

Changes in the physical state

Boiling point: n.d.

Flash point: > 90 °C

Lower explosion limits: n.d.

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Upper explosion limits:	n.d.
Vapour pressure:	< 0,02 hPa
Density:	1,01 g/cm ³
Water solubility:	completely miscible
Viscosity / kinematic:	4,1 mm ² /s

10. Stability and reactivity

Reactivity:	No data available.
Chemical stability:	No data available.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	No decomposition if used as directed.
Incompatible materials:	None under normal use.
Hazardous decomposition products:	No decomposition if stored and applied as directed.

11. Toxicological information

Information on toxicological effects

Toxicocinetics, metabolism and distribution:

No data is available on the product itself.

Acute toxicity:

No data is available on the product itself.

CAS No.	Chemical name				
	Exposure routes	Method	Dose	Species	h
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol				
	Acute oral toxicity	LD50	5045 mg/kg	rats	
	Acute dermal toxicity	LD50	12800 mg/kg	rabbit	

Irritation and corrosivity:

May cause irritation of the mucous membranes (slight irritation to the mucous membrane)

Sensitizing effects:

No data is available on the product itself.

Severe effects after repeated or prolonged exposure:

No data is available on the product itself.

Carcinogenic/mutagenic/toxic effects for reproduction:

No data is available on the product itself.

12. Ecological information

Toxicity:

No data is available on the product itself.

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CAS No.	Chemical name				
	Aquatic toxicity	Method	Dose	Species	h
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol				
	Acute fish toxicity	LC50	1400 mg/l	Lepomis macrochirus	96
	Acute algae toxicity	ErC50	> 1000 mg/l	Desmodesmus subspicatus	72
	Acute crustacea toxicity	EC50	13299 mg/l	Daphnia Magna	48

Persistence and degradability:

Readily biodegradable, according to appropriate OECD test.
The surface active substances of the product correspond to the requirements of the EC Detergent Regulation (EC/648/2004) concerning ultimate aerobic biodegradation of tensides for washing and cleaning agents.

Bioaccumulative potential:

No data is available on the product itself.

Partition coefficient n-octanol/water

CAS No.	Chemical name	Log Pow
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol	0,05

Mobility in soil:

No data is available on the product itself.

13. Disposal considerations

Waste treatment methods

Advice on disposal:

Recommendation Waste disposal number of waste from residues/unused products:

Disposal in accordance with the official regulations.
200113
MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); solvents
Classified as hazardous waste.

Recommendation :

200113
MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); solvents
Classified as hazardous waste.

Contaminated packaging:

Disposal in accordance with the official regulations. Can be refilled. Packaging can be sent for recycling after being emptied and cleaned.

14. Transport information

Land transport (ADR/RID)

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Other applicable information (land transport): Not classified as dangerous regarding transport regulations.

Inland waterways transport

Other applicable information (inland waterways transport): Not classified as dangerous regarding transport regulations.

Marine transport

Other applicable information (marine transport): Not classified as dangerous regarding transport regulations.

Air transport

Other applicable information (air transport): Not classified as dangerous regarding transport regulations.

15. Regulatory information

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

National regulatory information

Chemical Safety Assessment: For this substance a chemical safety assessment has not been carried out.

16. Other information

Changes: Sections which have been changed in comparison to the preceding edition: 1, 2, 3, 4, 6, 7, 10, 11, 12, 14

Abbreviations and acronyms: n.a. = not applicable

n.d. = not determined

Full text of R-phrases referred to under sections 2 and 3: 11 Highly flammable.

36 Irritating to eyes.

67 Vapours may cause drowsiness and dizziness.

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Full text of H-Statements referred to under sections 2 and 3:

Further Information: The information is based on present levels of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

The product is to be used exclusively for the applications named in the technical leaflet or in the processing instructions.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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