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OPTICAL WONDER Cleaning Fluid

No Change Service

Version 02.01 Revision Date 20.08.2004 Print Date 25.04.2005

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Information

Trade name : OPTICAL WONDER Cleaning Fluid

Producer/Supplier : BAADER PLANETARIUM GmbH

Zur Sternwarte

D-82291 Mammendorf

Germany

Tel.: ++49-8145-8802 FAX: ++49-8145-8805

e-mail: service@baader-planetarium.de

www.baader-planetarium.de

Contact person : Product/Aplication Help Services

++49-8145-8802

Emergency telephone number: ++49-8145-8802

Application : Cleaning Fluid

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : (Preparation)

Description : Solution of the following substances with harmless additives.

Components	CAS-No.	EC-No.	Symbol	R-	Concentration
				phrase(s)	
Ethanol	64-17-5	200-578-6	F	R11	25%
Propan-1-ol	71-23-8	200-746-9	F, Xi	R11, R41, R67	35%

For the full text of the R phrases mentioned in this Section, see Section 16.

3. HAZARDS IDENTIFICATION

Risk advice to man and the environment

ICAO-Labels / Indication of danger:

Xi Irritant R10 Flammable.

R41 Risk of serious damage to eyes.

R67 Vapours may cause drowsiness and dizziness.

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4. FIRST AID MEASURES

Eye contact : In the case of contact with eyes, rinse immediately with

plenty of water and seek medical advice.

Inhalation : Move to fresh air.

Ingestion : Obtain medical attention.

5. FIRE-FIGHTING MEASURES

Special protective

equipment for fire-fighters : No Special precautions required.

Suitable extinguishing : water, dry powder, alcohol-resistant foam, carbon dioxide

Media : (CO2)

Extinguishing media which :

must not be used for safety

reasons : No information available.

Specific risk from the substance or the product itself, its combustion

products or evolved gases : No Special risks to be expected.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Ensure adequate Ventilation. Remove all sources of ignition.

Environmental precautions : No Special environmental precautions required.

Methods for cleaning up : Wipe up with absorbent material (e.g. cloth, fleece). Soak up with

inert absorbent material (e.g. sand, silica gel, acid binder, universal

binder, sawdust).

7. HANDLING AND STORAGE

Handling

Safe handling advice : not required under normal use.

Advice on protection

against fire and explosion : Keep away from sources of ignition - No smoking. The hot product

gives off combustible vapours.

Storage

Requirements for storage

areas and containers : Store in original Container.

Further information : Keep away from direct sunlight. Keep Container tightly closed.

Advice on common storage : Keep away from food and drink.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with workplace control parameters

<u>Components</u>	Cas-No.	<u>Value</u>	<u>Basis</u>
Ethanol	64-17-5	MAK: 960 mg/m3 MAK: 500 ppm	TRGS 900
Ethanol	64-17-5	VME: 1.900 mg/m3 VME: 1.000 ppm	INRS
Ethanol	64-17-5	VLE: 9.500 mg/m3 VLE: 5.000 ppm	INRS
Propan-1-ol	71-23-8	VME: 500 mg/m3 VME: 200 ppm	INRS

Personal protective equipment

Hand protection : Splash protection: disposable nitrile rubber gloves e.g. Dermatril

made by KCL or gloves from other manufacturers offering the

same protection.

Prolonged contact: Nitrile rubber gloves e.g. Camatril (>120 Min.) or butyl rubber gloves e.g. Butoject (>480 Min.) made by KCL or gloves from other manufacturers offering the same protection.

Eye protection : tightly fitting safety goggles.
Hygiene measures : When using do not eat or drink.

Protective measures : Avoid contact with eyes.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form : liquid
Color : colourless
Odor : alcoholic

Other data

solidification range : < -5 °C initial boiling point : ca. 80 °C Flash point : 27 °C

Method: DIN 51755 Part 1

Lower explosion limit : > 90% (V)

Vapour pressure : ca.50 hPa at 20°C

Density : 0,890 g/cm³ at 20°C

Water solubility : at 20°C in all proportions

PH : ca.7at 1.000 g/l (20°C)

flow time : < 15s at $20^{\circ}C$

Method: DIN 53211

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10. STABILITY AND REACTIVITY

Hazardous reactions

Hazardous

None reasonably foreseeable.

decomposition products None reasonably foreseeable.

11. TOXICOLOGICAL INFORMATION

Further Information The dassification was made according to the caiculation

procedure of the Dangerous Preparations Directive.

12. ECOLOGICAL INFORMATION

Biodegradability Readily biodegradable.

Method: OECD 301D / EEC 84/449 C6

Chemical Oxygen Demand 13000 mg/l

Test substance: 1% solution (COD) **Further Information** Avoid subsoil penetration.

13. DISPOSAL CONSIDERATIONS

Product Dispose of the product according to the defined

EWC (European Waste Code) No. Take empty packaging to the recycling plant.

Contaminated packaging

Waste key for the unused

Product

Waste key for the unused

EWC 070699

product Group) Waste material of HZVA from fats, lubricants, soaps, detergents, disinfectants and personal protection products.

14. TRANSPORT INFORMATION

ADR UN-No 1987

Class 3 Classification Code F1 Ш Packaging group ADR/RID-Labels 3 **ICAO-Labels** 30

Description of the goods ALCOHOLS, N.O.S. (Ethanol, Propan-1-ol)

IMDG UN-No 1987

> Class 3 F-E **EmS** Packaging group Ш Marine pollutant

Description of the goods ALCOHOLS, N.O.S. (Ethanol, Propan-1-ol)

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IATA : UN-No 1987 Class 3

Packaging group III

Description of the goods ALCOHOLS, N.O.S. (Ethanol, Propan-1-ol)

15. REGULATORY INFORMATION

General advice : In the EU, this product is classified and labeled in accordance

with EC directives or respective national laws.

Symbol : Xi Irritant

R-phrase(s) : R10 Flammable.

R41 Risk of serious damage to eyes.

R67 Vapors may cause drowsiness and dizziness.

S-phrase(s) : S23 Do not breathe spray.

S26 In case of contact with eyes, rinse immediately with

plenty of water and seek medical advice.

S39 Wear eye/face protection.

S51 Use only in well-ventilated areas.

National legislation

Legislation on the control of major-accident hazards

involving dangerous

substances : The product belongs to at least one of the categories 1 through

11 mentioned in Annex 1 of the Directive 1996/82/EC concerning the control of major accident hazards.

VOC-Content : 0,60 kg/kg

(Switzerland only)

Switzerland : Swiss Poison Class 4

BAG / OFSP T 611484, BAG / OFSP E 1364

16. OTHER INFORMATION

Application : Information on uses can be found in a separate preparation /

product brochure.

Text of R phrases mentioned in Section 2

R11 Highly flammable.

R41 Risk of serious damage to eyes.

R67 Vapours may cause drowsiness and dizziness.

The information given is only of use for possible safety requirements and is based on our actual knowledge. This information does not guarantee any properties. It is the responsibility of the receiver / user of our products to follow existing laws and regulations.

Changes compared with the previous edition are marked in the margin.

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