

EC-Material Safety Data Sheet according 91/155/EWG

Revision date: 23.04.01

Date of issue: 16.08.01

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1. Chemical product and company identification

Trade name: **ZWALUW UNIVERSAL PU-CLEANER**

Manufacturer/Supplier: AUTRA Den Braven Aerosol GmbH Co. KG
Giebelstadter Weg 16
97234 REICHENBERG / ALBERTSHAUSEN
GERMANY

Telephone: 0049 93669 0710

Telefax: 0049 93669 07122

Emergency information: 0049 93669 0710

2. Composition/information on ingredients

Chemical characteristics:

Cleaner based on acetone

Propellant: Propane/Butane mixture, Carbon dioxide

Hazardous components:

CAS-Number	Hazardous components	Concentr.-%	Symbols	R-phrases
74-98-6/106-97-8	Propane/Butane	5-10	F+	12
67-64-1	Acetone	85-95	F, Xi	11, 36, 66, 67
00124-38-9	Carbon dioxide	1-5		

3. Possible dangers

Extremely flammable. In use, may form flammable/explosive vapour-air mixture, particularly on the ground. Irritating to eyes. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

4. First-aid measures

Inhalation:

Ensure supply of fresh air. Use mouth-to-mouth or mouth-to-nose resuscitation.

Eye contact:

Rinse thoroughly with plenty of water at open eye lid and seek medical advice.

Skin contact:

Wash with plenty of water and soap. After that moisten the skin.

Further information:

After swallowing immediately consult a doctor for medical advice.

5. Fire-fighting measures

Suitable extinguishing media: foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Unsuitable extinguishing media: water spray jet

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6. Accidental release measures

Environmental measurements:

Prevent contamination of soil and water. Prevent from spreading or entering into drains, ditches or rivers by using sand, earth or other appropriate barriers.

Cleaning-up method:

Absorb or contain liquid with sand, earth or spill control material. Sort out leaking cans and dispose off.

7. Handling and storage

Handling:

Use only in well-ventilated areas. Keep away from sources of ignition. Do not smoke. Do not spray in eyes. Protect against solar radiation.

Storage:

Observe storage regulations for aerosols (in Germany TRG 300). Store in well-ventilated areas only. Storage temperature never above 50°C . Do not carry in car-interior.

8. Exposure controls and personal protection

Contains Propane/Butane (MAC-value 1000 ppm) and Acetone (MAC-value 500 ppm).

Respiratory protection: In unventilated areas

Eye protection: Wear goggles during treatment of large quantities.

Skin protection: Wear protective gloves.

Industrial hygiene: After work-time and during work intervals the affected skin areas must be thoroughly cleaned. At work do not eat, drink, smoke or take drugs.

9. Physical and chemical data

Physical state:	Aerosol		
Colour:	Colourless		
Odour:	Characteristic like acetone		
Change of physical state:	Not applicable		
Flash point:	Not applicable		
Ignition point (spray mist):	>250°C		
Explosion limits:	Lower: 0,6 Vol.%	upper:	no data available
Vapour pressure [mbar]:	20°C: 3,5	50°C:	7,0
Density at 20°C [g/ml]:	0,78		
Solubility:	Partly soluble at water		
Octanol/water partition coefficient at 20°C:	No data available		
Viscosity (mpas) at 20°C:	No data available		

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10. Stability and reactivity

Thermal decomposition:
None at appropriate use

Hazardous decomposition products:
None at appropriate use

Hazardous reactions:
At temperatures above 50°C danger of exploding cans

11. Toxicological information

Contains Acetone (MAC-value 500 ppm).
Inhalation of solvent vapours can lead to narcotic aspects.

12. Ecological information

Water hazard class: 1 (self-classification)
Watercontaminating. Do not allow to enter soil, waterways or waste water.

13. Waste disposal considerations

For recycling, consult waste disposal centres.
EAK-Number: 15 01 99D1 (packings with harmful residues)

14. Transport

GGVS/ADR: 1950 Aerosols, 2 Item 5F ADR

Class: 2 Item: 5F Number: 2201
UN-No.: 1950

GGVE/RID: 1950 Aerosols, 2 Item 5F RID

Class: 2 Item: 5F Number: 201
UN-No.: 1950

GGVSee/IMGD: Aerosols (28 Amendment)

Class: 2.1 Page: 2102 Pkg.-Gr.: II
UN-No.: 1950 EmS-No.: 2-13 MFAG-No.: 311

ICAO/IATA-DGR: Aerosols flammable, n.o.s., containing propane/butane

Class: 2.1 Sub.-Risk: 3 Pkg.-Gr.: II
UN-No.: 1950 Pkg.-Notes; Pass. 203/75 kg, Cargo 203/150 kg

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15. Regulatory information

The product is classified and labelled in accordance with EC directives / German regulations on dangerous substances.

Symbols: **F+**, **Xi**

Dangers: extremely flammable, irritant

Pressurised container. Protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of the reach of children. Without adequate ventilation, formation of explosive mixtures may be possible. Do not breathe spray. Use only in well ventilated areas.

Product contains acetone. Irritating to eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

16. Additional information

Duplication without changes of the original version is allowed.

16/08/2001