

Multi Cleaner

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

1.1 Identification of the substance or preparation:

Product name : Multi Cleaner

1.2 Use of the substance/preparation:

Detergent

1.3 Company/undertaking identification:

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2. Hazards identification

- Extremely flammable
- Aerosol may explode under the effect of heat

3. Composition/information on ingredients

Hazardous ingredients	CAS No. EINECS/ELINCS No.	Conc. (%)	Hazards (R-phrases)	Hazard symbol
2-butoxyethanol	111-76-2 203-905-0	<20	20/21/22-36/38 (1)(2)	Xn
propan-2-ol	67-63-0 200-661-7	<5	11-36-67 (1)(2)	F;Xi
ammonia	1336-21-6 215-647-6	<5	34-50 (1)(2)	C;N
butane	106-97-8 203-448-7	1 - 10	12 (1)(2)	F+
propane	74-98-6 200-827-9	1 - 5	12 (1)(2)	F+

(1) For R-phrases in full: see heading 16
(2) Substance with a Community workplace exposure limit
(3) PBT-substance

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4. First aid measures

- 4.1 After inhalation:**
- Remove the victim into fresh air
 - Respiratory difficulties: consult a doctor/medical service
- 4.2 Skin contact:**
- Rinse with water
 - Take victim to a doctor if irritation persists
- 4.3 Eye contact:**
- Rinse with water
 - Take victim to an ophthalmologist if irritation persists
- 4.4 After ingestion:**
- Rinse mouth with water
 - If you feel unwell: consult a doctor/medical service

5. Fire-fighting measures

- 5.1 Suitable extinguishing media:**
- Water spray
 - Polyvalent foam
 - BC powder
 - Carbon dioxide
- 5.2 Unsuitable extinguishing media:**
- No data available
- 5.3 Special exposure hazards:**
- Gas/vapour spreads at floor level: ignition hazard
 - Gas/vapour flammable with air within explosion limits
 - Upon combustion formation of CO, CO₂ and small quantities of nitrous vapours
- 5.4 Instructions:**
- Cool closed containers with water if they are exposed to the fire
 - Do not move the load if exposed to heat
- 5.5 Special protective equipment for firefighters:**
- Heat/fire exposure: compressed air/oxygen apparatus
 - Protective clothing

6. Accidental release measures

- 6.1 Personal precautions:**
- See heading 8.2
- 6.2 Environmental precautions:**
- Use appropriate containment to avoid environmental contamination
 - Dam up the liquid spill
 - See heading 13
- 6.3 Methods for cleaning up:**
- Liquid spill: take up into absorbent material
 - Shovel absorbed substance in closing drums
 - Clean contaminated surfaces with an excess of water
 - Take collected spill to manufacturer/competent authority
 - Wash clothing and equipment after handling

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7. Handling and storage

7.1 Handling:

- Observe normal hygiene standards
- Use spark-/explosionproof appliances and lighting system
- Clean contaminated clothing
- Use only in well-ventilated areas

7.2 Storage:

- Keep out of direct sunlight
- Ventilation at floor level
- Fireproof storeroom
- Keep away from: heat sources, ignition sources

Storage temperature	: < 50	°C
Quantity limit	: N.D.	kg
Storage life	: 365	days
Materials for packaging	:	

- suitable : aerosol dispenser

7.3 Specific use(s):

- See information supplied by the manufacturer for the identified use(s)

8. Exposure controls/Personal protection

8.1 Exposure limit values:

8.1.1 Occupational exposure:

2-BUTOXYETHANOL:

TLV-TWA	:	mg/m ³	20	ppm
TLV-STEL	:	mg/m ³	-	ppm
WEL-LTEL	: -	mg/m ³	25	ppm
WEL-STEL	: -	mg/m ³	50	ppm
TRGS 900	: 98	mg/m ³	20	ppm
MAK	: 49	mg/m ³	10	ppm
GWBNL-TGG 8 h	: 100	mg/m ³	(wettelijk)	
GWKNL-TGG 15 min.	: 246	mg/m ³		
VME-8 h	: 9.8	mg/m ³	2	ppm
VLE-15 min.	: 147.6	mg/m ³	30	ppm
GWBB-8 h	: 98	mg/m ³	20	ppm
GWK-15 min.	: 246	mg/m ³	50	ppm
EC	: 98	mg/m ³	20	ppm
EC-STEL	: 246	mg/m ³	50	ppm

PROPAN-2-OL:

TLV-TWA	:	mg/m ³	200	ppm
TLV-STEL	:	mg/m ³	400	ppm
WEL-LTEL	: 999	mg/m ³	400	ppm
WEL-STEL	: 1250	mg/m ³	500	ppm
TRGS 900	: 500	mg/m ³	200	ppm
MAK	: 500	mg/m ³	200	ppm
GWBNL-TGG 8 h	: 650	mg/m ³	(indicatief)	
VME-8 h	: -	mg/m ³	-	ppm
VLE-15 min.	: 980	mg/m ³	400	ppm
GWBB-8 h	: 997	mg/m ³	400	ppm
GWK-15 min.	: 1248	mg/m ³	500	ppm

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AMMONIA:

TLV-TWA	:		mg/m ³	25	ppm
TLV-STEL	:		mg/m ³	35	ppm
WEL-LTEL	:	18	mg/m ³	25	ppm
WEL-STEL	:	25	mg/m ³	35	ppm
TRGS 900	:	14	mg/m ³	20	ppm
MAK	:	14	mg/m ³	20	ppm
GWBNL-TGG 8 h	:	14	mg/m ³	(wettelijk)	
GWKNL-TGG 15 min.	:	36	mg/m ³		
VME-8 h	:	7	mg/m ³	10	ppm
VLE-15 min.	:	14	mg/m ³	20	ppm
GWBB-8 h	:	14	mg/m ³	20	ppm
GWK-15 min.	:	36	mg/m ³	50	ppm
EC	:	14	mg/m ³	20	ppm
EC-STEL	:	36	mg/m ³	50	ppm

BUTANE:

TLV-TWA	:		mg/m ³	1000	ppm
TLV-STEL	:		mg/m ³	-	ppm
WEL-LTEL	:	1450	mg/m ³	600	ppm
WEL-STEL	:	1810	mg/m ³	750	ppm
TRGS 900	:	2400	mg/m ³	1000	ppm
MAK	:	2400	mg/m ³	1000	ppm
GWBNL-TGG 8 h	:	1430	mg/m ³	(indicatief)	
VME-8 h	:	1900	mg/m ³	800	ppm
VLE-15 min.	:	-	mg/m ³	-	ppm
GWBB-8 h	:	-	mg/m ³	1000	ppm
GWK-15 min.	:	-	mg/m ³	-	ppm

PROPANE:

TLV-TWA	:		mg/m ³	1000	ppm
TLV-STEL	:		mg/m ³	-	ppm
TRGS 900	:	1800	mg/m ³	1000	ppm
MAK	:	1800	mg/m ³	1000	ppm
GWBNL-TGG 8 h	:		mg/m ³	(indicatief)	
GWBB-8 h	:	-	mg/m ³	1000	ppm
GWK-15 min.	:	-	mg/m ³	-	ppm

8.1.2 Sampling methods:

- Butane	OSHA	CSI
- Propane	OSHA	CSI
- 2-Butoxyethanol (Alcohols IV)	NIOSH	1403
- 2-Butoxyethanol (Butyl Cellosolve solvent)	OSHA	83
- Isopropyl Alcohol (Alcohols I)	NIOSH	1400
- Isopropyl Alcohol	OSHA	7
- Ammonia	NIOSH	6015
- Ammonia	OSHA	ID188

8.2 Exposure controls:

8.2.1 Occupational exposure controls:

- Measure the concentration in the air regularly

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Personal protective equipment:

a) Respiratory protection:

- Gas mask with filter type AX at conc. in air > exposure limit

b) Hand protection:

- Gloves

c) Eye protection:

- Protective goggles

d) Skin protection:

- No data available

8.2.2 Environmental exposure controls: see heading 6.2, 6.3 and 13

9. Physical and chemical properties

9.1 General information:

Appearance (at 20°C)	:	Aerosol
Odour	:	Characteristic
Colour	:	Variable in colour

9.2 Important health, safety and environmental information:

pH value (at 20°C)	:	N.D.
Boiling point/boiling range	:	N.D. °C
Flashpoint/flammability	:	Contains extremely flammable components
Explosion limits (explosive properties)	:	N.D. vol%
Oxidising properties	:	N.D.
Vapour pressure (at 20°C)	:	N.D. hPa
Vapour pressure (at 50°C)	:	N.D. hPa
Relative density liquid phase (20°C)	:	0.99
Water solubility	:	Soluble
Soluble in	:	No data available
Relative vapour density	:	N.D.
Viscosity (at °C)	:	N.D. Pa.s
Partition coefficient n-octanol/water	:	N.D.
Evaporation rate	:	
ratio to butyl acetate	:	N.D.
ratio to ether	:	N.D.

9.3 Other information:

Melting point/melting range	:	N.D. °C
Auto-ignition point	:	N.D. °C
Saturation concentration	:	N.D. g/m ³
Specific conductivity	:	N.D. pS/m

10. Stability and reactivity

10.1 Conditions to avoid:

- Stable under normal conditions

10.2 Materials to avoid:

- Keep away from: heat sources, ignition sources

10.3 Hazardous decomposition products:

- Upon combustion formation of CO, CO₂ and small quantities of nitrous vapours

11. Toxicological information

11.1 Acute toxicity:

2-BUTOXYETHANOL:

LD50 oral rat : 530 mg/kg

PROPAN-2-OL:

LD50 oral rat : > 2000 mg/kg
 LD50 dermal rabbit : 12870 mg/kg
 LC50 inhalation rat : 73 mg/l/4 h
 LC50 inhalation rat : 29535 ppm/4 h

BUTANE:

LC50 inhalation rat : 658 mg/l/4 h

PROPANE:

LC50 inhalation rat : 513 mg/l/4 h
 LC50 inhalation rat : 280000 ppm/4 h

11.2 Chronic toxicity:

2-BUTOXYETHANOL:

Carcinogenicity (TLV) : A3
 Teratogenicity (MAK) : Group C
 IARC classification : 3

PROPAN-2-OL:

Carcinogenicity (TLV) : A4
 Teratogenicity (MAK) : Group C
 IARC classification : 3

AMMONIA:

Teratogenicity (MAK) : Group C

BUTANE:

Teratogenicity (MAK) : Group D

PROPANE:

Teratogenicity (MAK) : Group D

11.3 Routes of exposure: inhalation, eyes and skin

11.4 Acute effects/symptoms:

- AFTER INHALATION:
- EXPOSURE TO HIGH CONCENTRATIONS:
- Headache
- Nausea
- Disturbances of consciousness

11.5 Chronic effects:

- Contains substance with uncertain carcinogenic properties
- Not listed in mutagenicity class (EC, MAK)
- Not classified as toxic to reproduction (EC)

12. Ecological information

12.1 Ecotoxicity:

2-BUTOXYETHANOL:

- LC50 (96 h) : 1341 ppm (LEPOMIS MACROCHIRUS)
- EC50 (24 h) : 1720 mg/l (DAPHNIA MAGNA)

PROPAN-2-OL:

- LC50 (96 h) : 9640 mg/l (PIMEPHALES PROMELAS)
- EC50 (48 h) : 13299 mg/l (DAPHNIA MAGNA)
- EC50 (72 h) : >1000 mg/l (SCENEDESMUS SUBSPICATUS)

- **Effect on waste water purification** : No data available

12.2 Mobility:

- **Volatile organic compounds (VOC):** 15%
- Soluble in water

For other physicochemical properties see heading 9

12.3 Persistence and degradability:

- **Biodegradation BOD₅** : N.D. % ThOD
- **Water** : The surfactants are biodegradable test: >90%, OECD
- **Soil** : N.D. days

12.4 Bioaccumulative potential:

- **log P_{ow}** : N.D.
- **BCF** : N.D.

12.5 Results of PBT assessment:

- Not applicable, on the basis of the available data

12.6 Other adverse effects:

- **WGK** : 1 (Classification based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 17 May 1999)
- **Effect on the ozone layer** : Not dangerous for the ozone layer (1999/45/EC)
- **Greenhouse effect** : No data available

13. Disposal considerations

13.1 Provisions relating to waste:

- Waste material code (91/689/EEC, Council Decision 2001/118/EC, O.J. L47 of 16/2/2001): 14 06 03* (other solvents and solvent mixtures)
- LWCA (the Netherlands): KGA category 06
- Hazardous waste (91/689/EEC)
- Remove waste in accordance with local and/or national regulations

13.2 Disposal methods:

- Specific treatment
- Substance must not be discharged into the sewer

13.3 Packaging:

- Waste material code packaging (91/689/EEC, Council Decision 2001/118/EC, O.J. L47 of 16/2/2001): 15 01 10* (packaging containing residues of or contaminated by dangerous substances)

14. Transport information

14.1 Classification of the substance in compliance with UN Recommendations

UN number : 1950
 CLASS : 2.1
 SUB RISKS : -
 PACKING GROUP : -

14.2 ADR (transport by road)

CLASS : 2
 PACKING GROUP :
 CLASSIFICATION CODE : 5F
 DANGER LABEL TANKS : -
 DANGER LABEL PACKAGES : 2.1
 PROPER SHIPPING NAME :
 aerosols

14.3 RID (transport by rail)

CLASS : 2
 PACKING GROUP :
 CLASSIFICATION CODE : 5F
 DANGER LABEL TANKS : -
 DANGER LABEL PACKAGES : 2.1
 PROPER SHIPPING NAME :
 aerosols

14.4 ADNR (transport by inland waterways)

CLASS : 2
 PACKING GROUP :
 CLASSIFICATION CODE : 5F
 DANGER LABEL TANKS : -
 DANGER LABEL PACKAGES : 2.1

14.5 IMDG (maritime transport)

CLASS : 2.1
 SUB RISKS : -
 PACKING GROUP : -
 MFRAG : -
 EMS : F-D, S-U
 MARINE POLLUTANT : -

14.6 ICAO (air freight)

CLASS : 2.1
 SUB RISKS : -
 PACKING GROUP : -
 PACKING INSTRUCTIONS PASSENGER AIRCRAFT : 203/Y203
 PACKING INSTRUCTIONS CARGO AIRCRAFT : 203

14.7 Special precautions

: None

14.8 Limited quantities (LQ)

:

When substances and their packaging meet the conditions established by ADR/RID/ADNR in chapter 3.4, only the following prescriptions shall be complied with:

each package shall display a diamond-shaped figure with the following inscription:

- 'UN 1950'

or, in the case of different goods with different identification numbers within a single package:

- the letters 'LQ'

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15. Regulatory information

15.1 EU Legislation:

Labelling in accordance with EC directives 67/548/EEC, 1999/45/EC and 2006/8/EC



Extremely flammable

S23 : Do not breathe spray
S(46) : (If swallowed, seek medical advice immediately and show this container or label)
S51 : Use only in well-ventilated areas

Keep away from sources of ignition - No smoking.
Keep out of the reach of children.
Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C.
Do not pierce or burn after use.
Do not spray on a naked flame or any incandescent material.

15.2 National provisions:

the Netherlands:
Waterbezwaarlijkheid: 9

Germany:
WGK : 1 (Classification based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 17 May 1999)

16. Other information

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

N.A. = NOT APPLICABLE
N.D. = NOT DETERMINED
(*) = INTERNAL CLASSIFICATION (NFPA)

PBT-substances = persistent, bioaccumulative and toxic substances

Exposure limits:

TLV : Threshold Limit Value - ACGIH US
WEL : Workplace Exposure Limits - United Kingdom
TRGS 900 : Technische Regel für Gefahrstoffe 900 (Arbeitsplatzgrenzwerte) - Germany
MAK : Maximale Arbeitsplatzkonzentrationen - Germany
GWBNL : Grenswaarde voor blootstelling - the Netherlands
GWKNL : Grenswaarde korte duur - the Netherlands
VME : Valeurs limites de Moyenne d'Exposition - France
VLE : Valeurs limites d'Exposition à court terme - France
GWBB : Grenswaarde beroepsmatige blootstelling - Belgium
GWK : Grenswaarde kortstondige blootstelling - Belgium
EC : Indicative occupational exposure limit values

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I : Inhalable fraction = **T** : Total dust = **E** : Einatembarer Aerosolanteil
R : Respirable fraction = **A** : Alveolengängiger Aerosolanteil/Alveolar dust
C : Ceiling limit

a:	aerosol	r:	rook/Rauch	(fume)
d:	damp (vapour)	st:	stof/Staub	(dust)
du:	dust	ve:	vezel	(fibre)
fa:	Faser (fibre)	va:	vapour	
fi:	fibre	om:	oil mist	
fu:	fume	on:	olienevel/Ölnebel	(oil mist)
p:	poussière (dust)	part:	particles	

Chronic toxicity:

K : List of the carcinogenic substances and processes - The Netherlands

Full text of any R-phrases referred to under headings 2 and 3:

R11 : Highly flammable
R12 : Extremely flammable
R20/21/22 : Harmful by inhalation, in contact with skin and if swallowed
R34 : Causes burns
R36 : Irritating to eyes
R36/38 : Irritating to eyes and skin
R50 : Very toxic to aquatic organisms
R67 : Vapours may cause drowsiness and dizziness