

Safety Data SheetMarston-Domsel GmbH
53909 Zülpich

according to Regulation (EC) No 1907/2006

MD-SPRAY Multischaumreiniger

Revision date: 29.10.2018

Product code: MSP.MSR.Y400

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

MD-Spray Multischaumreiniger

1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**

Cleaning agent.

Uses advised against

none

1.3. Details of the supplier of the safety data sheet

Company name:	Marston-Domsel GmbH	
Street:	Bergheimer Str. 15	
Place:	D-53909 Zülpich	
Telephone:	+49(0)2252/9415-0	Telefax: +49(0)2252/1744
e-mail:	info@marston-domsel.de	
Contact person:	Herr Martin Esser	
e-mail:	info@marston-domsel.de	
Internet:	www.marston-domsel.de	
Responsible Department:	Safety Data Sheets/Data Management	

1.4. Emergency telephone number:

Poison Center München, phone: +49 (0) 8919240 (24-hour emergency call).

Further Information

Restricted to professional users. Safety data sheet available for professional user on request. Notice the directions for use on the label. To avoid risks to man and the environment, comply with the instructions for use.

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:
Aerosol: Aerosol 1
Serious eye damage/eye irritation: Eye Irrit. 2
Hazard Statements:
Extremely flammable aerosol.
Pressurised container: May burst if heated.
Causes serious eye irritation.

2.2. Label elements**Regulation (EC) No. 1272/2008****Signal word:** Danger**Pictograms:****Hazard statements**

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H319	Causes serious eye irritation.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No
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smoking.

P211

Do not spray on an open flame or other ignition source.

P251

Do not pierce or burn, even after use.

P280

Wear protective gloves/protective clothing/eye 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.

P410+P412

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Additional advice on labelling

Classification according to Regulation (EC) No 1272/2008 [CLP]

2.3. Other hazards

Wear suitable protective clothing, gloves and eye/face protection. In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name	Quantity
	EC No	Index No
	REACH No	
	GHS Classification	
68476-40-4	Hydrocarbons, C3-4; Petroleum gas (Nota K, <0,1% 1,3-Butadien)	5 - 15 %
	270-681-9	649-199-00-1
	01-2119486557-22	
	Flam. Gas 1, Liquefied gas; H220 H280	
64-17-5	ethanol, ethyl alcohol	5 - < 15 %
	200-578-6	603-002-00-5
	01-2119457610-43	
	Flam. Liq. 2, Eye Irrit. 2; H225 H319	
137-16-6	sodium N-lauroylsarcosinate 30% solution (Na-salt)	< 1 %
	205-281-5	
	01-2119527780-39	
	Acute Tox. 4, Eye Dam. 1; H332 H318	
111-76-2	2-butoxyethanol, butyl cellosolve, ethylene glycol monobutyl ether	< 1 %
	203-905-0	603-014-00-0
	01-2119475108-36	
	Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2; H332 H312 H302 H315 H319	
1336-21-6	Ammonia 25 %	< 0,1 %
	215-647-6	007-001-01-2
	01-2119488876-14	
	Skin Corr. 1B, Aquatic Acute 1 (M-Factor = 1); H314 H400	
5392-40-5	citral	< 0,1 %
	226-394-6	605-019-00-3
	Skin Irrit. 2, Skin Sens. 1; H315 H317	
8028-48-6	Orangeterpenes, Orange, Citrus sinensis, ext.	< 0,1 %
	232-433-8	
	01-2119493353-35	
	Flam. Liq. 3, Skin Irrit. 2, Skin Sens. 1, Asp. Tox. 1, Aquatic Chronic 2; H226 H315 H317 H304 H411	

Full text of H and EUH statements: see section 16.

Labelling for contents according to Regulation (EC) No 648/2004

15 % - < 30 % aliphatic hydrocarbons, < 5 % anionic surfactants, perfumes (Citral, Limonene).

SECTION 4: First aid measures

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4.1. Description of first aid measures

General information

First aider: Pay attention to self-protection! Take off immediately all contaminated clothing and wash it before reuse. When in doubt or if symptoms are observed, get medical advice.

After inhalation

Provide fresh air. Seek medical attention if problems persist.
Remove casualty to fresh air and keep warm and at rest.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap.
Remove contaminated clothing immediately and dispose off safely.

After contact with eyes

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

After ingestion

Caution if victim vomits: Risk of aspiration! Medical treatment necessary.

4.2. Most important symptoms and effects, both acute and delayed

The following symptoms may occur: difficulties of breathing. Headache. Drowsiness. Dizziness. Coughing. Nausea.

4.3. Indication of any immediate medical attention and special treatment needed

Caution if victim vomits: Risk of aspiration! In all cases of doubt, or when symptoms persist, seek medical advice. Subsequent observance for pneumonia and lung oedema.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂). Dry extinguishing powder. Foam.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

In case of fire and/or explosion do not breathe fumes. Upon heating and / or in case of fire, formation of toxic gases is possible.

In case of fire may be liberated: carbon monoxide (CO). Carbon dioxide (CO₂). Organic cracking products. Nitrogen oxides (NO_x).

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Contaminated fire-fighting water must be collected separately. Co-ordinate fire-fighting measures to the fire surroundings.

Use water spray jet to protect personnel and to cool endangered containers. Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Provide adequate ventilation. Wear personal protection equipment. Keep away from unprotected people. Keep upwind.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Take up

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mechanically, placing in appropriate containers for disposal. Ventilate affected area.

6.4. Reference to other sections

Treat the recovered material as prescribed in the section on waste disposal. Disposal: see section 13.
Safe handling: see section 7. Personal protection equipment: see section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Use only in well-ventilated areas. Keep away from sources of ignition - No smoking. Flammable vapours can accumulate in head space of closed systems.

Advice on protection against fire and explosion

Take precautionary measures against static discharges. Vapours may form explosive mixtures with air.

Further information on handling

Heating causes rise in pressure with risk of bursting. Pressurized 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 naked flames or any incandescent material.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.
The official regulations for the storage of compressed gas packages must be observed.

Hints on joint storage

No data available

Further information on storage conditions

Protect against: heat. UV-radiation/sunlight. frost. moisture.
Heating causes rise in pressure with risk of bursting.

7.3. Specific end use(s)

After use replace the closing cap immediately. Observe instructions for use. Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
111-76-2	2-Butoxyethanol	25	123		TWA (8 h)	WEL
		50	246		STEL (15 min)	WEL
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL

Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
111-76-2	2-Butoxyethanol	butoxyacetic acid (creatinine)	240 mmol/mol	urine	Post shift

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DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
64-17-5	ethanol, ethyl alcohol			
Consumer DNEL, long-term		oral	systemic	87 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	206 mg/kg bw/day
Worker DNEL, long-term		dermal	systemic	343 mg/kg bw/day
Consumer DNEL, acute		inhalation	local	950 mg/m ³
Consumer DNEL, long-term		inhalation	systemic	114 mg/m ³
Worker DNEL, acute		inhalation	local	1900 mg/m ³
Worker DNEL, long-term		inhalation	systemic	950 mg/m ³
137-16-6	sodium N-lauroylsarcosinate 30% solution (Na-salt)			
Worker DNEL, long-term		inhalation	systemic	70,53 mg/m ³
Worker DNEL, long-term		dermal	systemic	20 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	17,39 mg/m ³
Consumer DNEL, long-term		dermal	systemic	10 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	10 mg/kg bw/day
111-76-2	2-butoxyethanol, butyl cellosolve, ethylene glycol monobutyl ether			
Consumer DNEL, acute		oral	systemic	13,4 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	3,2 mg/kg bw/day
Worker DNEL, acute		dermal	systemic	89 mg/kg bw/day
Worker DNEL, long-term		dermal	systemic	75 mg/kg bw/day
Consumer DNEL, acute		dermal	systemic	44,5 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	38 mg/kg bw/day
Worker DNEL, acute		inhalation	local	246 mg/m ³
Worker DNEL, acute		inhalation	systemic	663 mg/m ³
Worker DNEL, long-term		inhalation	systemic	98 mg/m ³
Consumer DNEL, acute		inhalation	local	123 mg/m ³
Consumer DNEL, acute		inhalation	systemic	426 mg/m ³
Consumer DNEL, long-term		inhalation	systemic	49 mg/m ³
8028-48-6	Orangeterpenes, Orange, Citrus sinensis, ext.			
Consumer DNEL, long-term		oral	systemic	4,44 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	4,44 mg/kg bw/day
Worker DNEL, long-term		dermal	systemic	8,89 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	7,78 mg/m ³
Worker DNEL, long-term		inhalation	systemic	31,1 mg/m ³
Worker DNEL, acute		dermal	local	0,1858 mg/cm ²
Consumer DNEL, acute		dermal	local	0,0929 mg/cm ²

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PNEC values

CAS No	Substance	Value
Environmental compartment		
64-17-5	ethanol, ethyl alcohol	
Freshwater		0,96 mg/l
Marine water		0,79 mg/l
Freshwater sediment		3,6 mg/kg
Marine sediment		2,9 mg/kg
Soil		0,63 mg/kg
137-16-6	sodium N-lauroylsarcosinate 30% solution (Na-salt)	
Freshwater		0,00891 mg/l
Freshwater (intermittent releases)		0,0891 mg/l
Marine water		0,000891 mg/l
Marine water (intermittent releases)		0,00891 mg/l
Freshwater sediment		0,0642 mg/kg
Marine sediment		0,00642 mg/kg
Micro-organisms in sewage treatment plants (STP)		3 mg/l
Soil		0,0076 mg/kg
111-76-2	2-butoxyethanol, butyl cellosolve, ethylene glycol monobutyl ether	
Freshwater		8,8 mg/l
Marine water		0,88 mg/l
Freshwater sediment		34,6 mg/kg
Marine sediment		3,46 mg/kg
Micro-organisms in sewage treatment plants (STP)		463 mg/l
Soil		3,13 mg/kg
8028-48-6	Orangeterpenes, Orange, Citrus sinensis, ext.	
Freshwater		0,0054 mg/l
Freshwater (intermittent releases)		0,00577 mg/l
Marine water		0,00054 mg/l
Freshwater sediment		1,3 mg/kg
Marine sediment		0,13 mg/kg
Micro-organisms in sewage treatment plants (STP)		2,1 mg/l
Soil		0,261 mg/kg

Additional advice on limit values

air limit values like: TRGS 900 (AGW = workplace limit)
propellants = 1000 mL/m³ (ppm)

8.2. Exposure controls



Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations. Provide earthing of containers, equipment, pumps and ventilation facilities. Have eye showers and safety shower ready.

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Protective and hygiene measures

Work in well-ventilated zones or use proper respiratory protection. Do not eat, drink, smoke or sneeze at the workplace.

Take off immediately all contaminated clothing. Wash hands before breaks and after work.

Avoid contact with skin and eyes.

Eye/face protection

Tightly sealed safety glasses. DIN EN 166

Hand protection

Protect skin by using skin protective cream.

Tested protective gloves are to be worn: DIN EN 374

Suitable material: Butyl rubber.

Thickness of glove material: > 0,5 mm

penetration time (maximum wearing period): > 240 min

Breakthrough times and swelling properties of the material must be taken into consideration.

Skin protection

For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes). DIN EN 13034/6

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Suitable respiratory protective equipment: Self-contained respirator (breathing apparatus) (DIN EN 133).

Environmental exposure controls

Leakage into the environment must be prevented. Do not allow uncontrolled leakage of product into the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Aerosol	
Colour:	colourless	
Odour:	like: lemon.	
pH-Value:		Not applicable, aerosol

Changes in the physical state

Melting point:		Not applicable, aerosol
Initial boiling point and boiling range:		Not applicable, aerosol
Flash point:		< 0 °C

Flammability

Solid:		not determined
Gas:		not determined

Explosive properties

not Explosive.
In use, may form flammable/explosive vapour-air mixture.

Lower explosion limits:		1,5 vol. %
Upper explosion limits:		9,5 vol. %
Ignition temperature:		not determined

Auto-ignition temperature

Solid:		not determined
Gas:		not determined

Decomposition temperature:		not applicable
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Oxidizing properties

not determined

Vapour pressure:

not determined

Vapour pressure:

not determined

Density (at 20 °C):

0,915 g/cm³

Water solubility:

completely miscible

Solubility in other solvents

not determined

Partition coefficient:

not determined

Viscosity / dynamic:

not determined

Viscosity / kinematic:

not determined

Vapour density:

not determined

Evaporation rate:

not determined

9.2. Other information

Odour threshold: not determined

Technical specifications (Aerosol): Internal pressure (20 ° C) = 0,40 MPa; Internal pressure (50 ° C) = 0,75 MPa
aerosol container: nominal volume = 400 ml; void = 520 ml; Test pressure = 1,5 MPa**SECTION 10: Stability and reactivity****10.1. Reactivity**

This material is considered to be non-reactive under normal use conditions.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

10.4. Conditions to avoid

In case of exceeding the storage temperature: >50 °C Danger of bursting container.

Remove all sources of ignition. Protect from moisture.

10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapors.

In case of fire may be liberated: carbon monoxide (CO). Carbon dioxide (CO₂). Organic cracking products. Nitrogen oxides (NO_x).**Further information**

In case of exceeding the storage temperature: >50 °C Danger of bursting container.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Toxicokinetics, metabolism and distribution**

There are no data available on the preparation/mixture itself.

Acute toxicity

Based on available data, the classification criteria are not met.

There are no data available on the preparation/mixture itself.

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
64-17-5	ethanol, ethyl alcohol				
	oral	LD50 mg/kg	10470	Rat	OECD 401
	dermal	LD50 mg/kg	> 2000	Rat	OECD 402
	inhalation (4 h) vapour	LC50	> 50 mg/l	Rat	OECD 403
137-16-6	sodium N-lauroylsarcosinate 30% solution (Na-salt)				
	oral	LD50 mg/kg	> 2000	Rat	
	inhalation vapour	ATE	11 mg/l		
	inhalation aerosol	ATE	1,5 mg/l		
111-76-2	2-butoxyethanol, butyl cellosolve, ethylene glycol monobutyl ether				
	oral	LD50	470 mg/kg	Rat	
	dermal	ATE mg/kg	1100		
	inhalation vapour	ATE	11 mg/l		
	inhalation aerosol	ATE	1,5 mg/l		
5392-40-5	citral				
	oral	LD50 mg/kg	4950	Rat (Rattus).	SDB
	dermal	LD50 mg/kg	2250	Rabbit	SDB
8028-48-6	Orangeterpenes, Orange, Citrus sinensis, ext.				
	oral	LD50 mg/kg	> 5000	Rat	Echa OECD 401
	dermal	LD50 mg/kg	> 5000	Rabbit	Echa OECD 402

Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation).

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

SECTION 12: Ecological information
12.1. Toxicity

Leakage into the environment must be prevented.

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
64-17-5	ethanol, ethyl alcohol					
	Acute algae toxicity	ErC50 275 mg/l	72 h	Freshwater algae (chlorella vulgaris)		
	Acute crustacea toxicity	EC50 > 10000 mg/l	48 h	Daphnia magna (Big water flea)		
111-76-2	2-butoxyethanol, butyl cellosolve, ethylene glycol monobutyl ether					
	Acute fish toxicity	LC50 1490 mg/l	96 h	Lepomis macrochirus		
1336-21-6	Ammonia 25 %					
	Acute fish toxicity	LC50 0,53 mg/l	96 h	Onchorhynchus mykiss		
	Acute crustacea toxicity	EC50 24 mg/l	48 h	Daphnia magna		

12.2. Persistence and degradability

No data available

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
8028-48-6	Orangeterpenes, Orange, Citrus sinensis, ext.			
	OECD 301B	72 - 83,4 %	28	

12.3. Bioaccumulative potential

No data available

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
64-17-5	ethanol, ethyl alcohol	-0,31
137-16-6	sodium N-lauroylsarcosinate 30% solution (Na-salt)	0,37
111-76-2	2-butoxyethanol, butyl cellosolve, ethylene glycol monobutyl ether	0,81
1336-21-6	Ammonia 25 %	-1,38
8028-48-6	Orangeterpenes, Orange, Citrus sinensis, ext.	4,38

BCF

CAS No	Chemical name	BCF	Species	Source
8028-48-6	Orangeterpenes, Orange, Citrus sinensis, ext.	32 - 156	no tested BCF	Echa

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No data available

12.6. Other adverse effects

No data available

Further information

Doesn't get into the sewage water as long as the process is carried out according to regulations.
Do not allow to enter into surface water or drains.
slightly hazardous to water (WGK 1)

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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Advice on disposal

Dispose of waste according to applicable legislation.
Do not allow to enter into surface water or drains.

Waste disposal number of waste from residues/unused products

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

Waste disposal number of used product

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

Waste disposal number of contaminated packaging


150104 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); metallic packaging

Contaminated packaging

Dispose of waste according to applicable legislation.

SECTION 14: Transport information**Land transport (ADR/RID)**


14.1. UN number: UN 1950
14.2. UN proper shipping name: AEROSOLS
14.3. Transport hazard class(es): 2
14.4. Packing group: -
Hazard label: 2.1



Classification code: 5F
Special Provisions: 190 327 344 625
Limited quantity: 1 L
Excepted quantity: E0
Transport category: 2
Tunnel restriction code: D

Inland waterways transport (ADN)

14.1. UN number: UN 1950
14.2. UN proper shipping name: AEROSOLS
14.3. Transport hazard class(es): 2
14.4. Packing group: -
Hazard label: 2.1



Classification code: 5F
Special Provisions: 190 327 344 625
Limited quantity: 1 L
Excepted quantity: E0

Marine transport (IMDG)

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14.1. UN number: UN 1950
14.2. UN proper shipping name: AEROSOLS
14.3. Transport hazard class(es): 2.1
14.4. Packing group: -
 Hazard label: 2.1



Marine pollutant: Nein
 Special Provisions: 63, 190, 277, 327, 344, 381,959
 Limited quantity: 1000 mL
 Excepted quantity: E0
 EmS: F-D, S-U

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 1950
14.2. UN proper shipping name: AEROSOLS, flammable
14.3. Transport hazard class(es): 2.1
14.4. Packing group: -
 Hazard label: 2.1



Special Provisions: A145 A167 A802
 Limited quantity Passenger: 30 kg G
 Passenger LQ: Y203
 Excepted quantity: E0
 IATA-packing instructions - Passenger: 203
 IATA-max. quantity - Passenger: 75 kg
 IATA-packing instructions - Cargo: 203
 IATA-max. quantity - Cargo: 150 kg

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

Flammable gases, Gases under pressure

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available

Other applicable information

Transport as "limited quantity" according to chapter 3.4 ADR/RID.

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3: ethanol, ethyl alcohol; 2-butoxyethanol, butyl cellosolve, ethylene glycol monobutyl ether; Ammonia 25 %
 Entry 40: ethanol, ethyl alcohol

2004/42/EC (VOC): 23,8 Ma% (219 g/l)

Safety Data Sheet

Marston-Domsel GmbH
53909 Zülpich

according to Regulation (EC) No 1907/2006

MD-SPRAY Multischaumreiniger

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Information according to 2012/18/EU
(SEVESO III):

P3a FLAMMABLE AEROSOLS

National regulatory information

Employment restrictions:

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

Water contaminating class (D):

1 - slightly water contaminating

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

Hydrocarbons, C3-4; Petroleum gas (Nota K, <0,1% 1,3-Butadien)
ethanol, ethyl alcohol
sodium N-lauroylsarcosinate 30% solution (Na-salt)
2-butoxyethanol, butyl cellosolve, ethylene glycol monobutyl ether
Orangeterpenes, Orange, Citrus sinensis, ext.

SECTION 16: Other information

Abbreviations and acronyms

For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Aerosol 1; H222-H229	On basis of test data
Eye Irrit. 2; H319	Bridging principle "Aerosols"

Relevant H and EUH statements (number and full text)

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

Further Information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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Identified uses

No	Short title	LCS	SU	PC	PROC	ERC	AC	TF	Specification
1	Washing and cleaning products (including solvent based products), Industrial spraying, Non industrial spraying	-	3, 22	35	7, 11	-	-	-	Aerosol

LCS: Life cycle stages

SU: Sectors of use

PC: Product categories

PROC: Process categories

ERC: Environmental release categories

AC: Article categories

TF: Technical functions

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