Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU

OPN Super Multi Spray OP 50 Plus - with PTFE -

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Revision: 2026-05-05
Revision number: 6.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: **OPN Super Multi Spray OP 50 Plus - with PTFE -**

Unique formula identifier (UFI): 949D-U5H0-3000-PCHR

Other means of identification

Article number: 60406

Tariff No: 34031980

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Cleaning agent
Industrial use
Professional use
Consumer use (private households)

Sector of use: Rustremover

Uses advised against: Do not use for products which come into contact with foodstuffs

1.3 Details of the supplier of the safety data sheet

OPN-CHEMIE GmbH

In der Au 14

57290 Neunkirchen

www.opn-chemie.de

Information Providing Area:

Competent person responsible for the safety data sheet: Barbara Angelika Gros-Petri

e-mail (competent person): baerbel.petri@opn-chemie.de

1.4 Emergency telephone number

24h Emergency information service: Poison Information Center Freiburg +49(0)761/19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Section	Hazard class	Hazard class and category	Hazard statement
2.3	Aerosols	Aerosol 1	H222,H229
3.2	Skin corrosion/irritation	Skin Irrit. 2	H315
3.8D	Specific target organ toxicity - single exposure (narcotic effects, drowsiness)	STOT SE 3	H336
4.1C	Hazardous to the aquatic environment - chronic hazard	Aquatic Chronic 3	H412

Remarks

For full text of abbreviations: see SECTION 16

The most important adverse physicochemical, human health and environmental effects

Spillage and fire water can cause pollution of watercourses.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

Signal word: Danger

Pictograms

GHS02, GHS07

Hazard statements

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P261	Avoid breathing spray.
P271	Use only outdoors or in a well-ventilated area.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C / 122 ° F.
P501	Dispose of contents / container in accordance with national regulations of the disposal.

Additional labelling requirements
Buildup of explosive mixtures possible without sufficient ventilation.

Hazardous ingredients for labelling Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

2.3 Other hazards

REACH, Annex XVII, entry 78 on SPM.

Results of PBT and vPvB assessment
This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Endocrine disrupting properties
Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture).

3.2 Mixtures

Description of the mixture Mixture of substances listed below with nonhazardous additions

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
Butane	CAS No 106-97-8 EC No 203-448-7 REACH Reg. No 01-2119474691-32-xxxx	25 – < 50	Flam. Gas 1A / H220 Press. Gas L / H280		
Distillates (petroleum), solvent-dewaxed light paraffinic	CAS No 64742-56-9 EC No 265-159-2 REACH Reg. No 01-2119480132-48-xxxx	10 – < 25	Asp. Tox. 1 / H304		
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	EC No 921-024-6 REACH Reg. No 01-2119475514-35-xxxx	10 – < 25	Flam. Liq. 2 / H225 Skin Irrit. 2 / H315 STOT SE 3 / H336 Asp. Tox. 1 / H304 Aquatic Chronic 2 / H411		OIN 14(b) OIN 6(b) P(b)

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
Propane	CAS No 74-98-6 EC No 200-827-9 REACH Reg. No 01-2119486944-21-xxxx	10 – < 25	Flam. Gas 1A / H220 Press. Gas C / H280		GHS-HC U(b)
Cyclohexane	CAS No 110-82-7 EC No 203-806-2 REACH Reg. No 01-2119463273-41-xxxx	1 – < 5	Flam. Liq. 2 / H225 Skin Irrit. 2 / H315 STOT SE 3 / H336 Asp. Tox. 1 / H304 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410		IOELV
Isobutane	CAS No 75-28-5 EC No 200-857-2 REACH Reg. No 01-2119485395-27-xxxx	1 – < 5	Flam. Gas 1A / H220 Press. Gas C / H280		C GHS-HC U(b)
n-Hexane	CAS No 110-54-3 EC No 203-777-6 REACH Reg. No 01-2119480412-44-xxxx	< 0.25	Flam. Liq. 2 / H225 Skin Irrit. 2 / H315 Repr. 2 / H361f STOT SE 3 / H336 STOT RE 1 / H372 Asp. Tox. 1 / H304 Aquatic Chronic 2 / H411		GHS-HC IOELV

Notes

C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.
GHS-HC: Harmonised classification (the classification of the substance corresponds to the entry in the list according to 1272/2008/EC, Annex VI)
IOELV: Substance with a community indicative occupational exposure limit value
OIN 14(b): The classification as a specific target organ toxicant category 2; H373 (May cause damage to organs through prolonged or repeated exposure) need not apply. The substance is not classified as carcinogenic
OIN 6(b): The classification as a reproductive toxicant category 2; H361f (Suspected of damaging fertility) is not required. The substance contains less than 3 % w/w n-hexane (EINECS No 203-777-6)
P(b): The classification as a carcinogen or mutagen is not required. The substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7). When the substance is not classified as a carcinogen at least the precautionary statements (P102-)P260-P262-P301 + P310-P331 shall apply
U(b): The allocation to the group 'compressed gas' is based on the physical state in which the gas is packaged

3.3 Remarks

For full text of abbreviations: see SECTION 16.
n-Hexane is a component of the hydrocarbon mixture.
Cyclohexane is a component of the hydrocarbon mixture.

3.4 Regulation (EC) no. 648/2004 on detergents / Labelling for contents

Aliphatic hydrocarbons.	30 % and more.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Narcotic effects.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray. BC-powder.

Unsuitable extinguishing media

Water jet.

5.2 Special hazards arising from the substance or mixture

In case of insufficient ventilation and/or in use, may form flammable/explosive vapour-air mixture.

Hazardous combustion products

Carbon monoxide (CO). Carbon dioxide (CO_2).

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling Recommendations

Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Take precautionary measures against static discharge. Use only in well-ventilated areas. Ground/bond container and receiving equipment.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

Storage class (LGK)

2 B

• Flammability hazards

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

Consideration of other advice

• Packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

7.3 Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

this information is not available

Relevant DNELs/DMELs/PNECs and other threshold levels

Relevant DNELs of components of the mixture

Relevant DNELs of components

Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane		DNEL	2,035 mg/m³	Human, inhalatory	Worker (industry)	Chronic - systemic effects
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane		DNEL	773 mg/kg bw/day	Human, dermal	Worker (industry)	Chronic - systemic effects
Cyclohexane	110-82-7	DNEL	700 mg/m³	Human, inhalatory	Worker (industry)	Chronic - systemic effects
Cyclohexane	110-82-7	DNEL	700 mg/m³	Human, inhalatory	Worker (industry)	Acute - systemic effects
Cyclohexane	110-82-7	DNEL	700 mg/m³	Human, inhalatory	Worker (industry)	Chronic - local effects
Cyclohexane	110-82-7	DNEL	700 mg/m³	Human, inhalatory	Worker (industry)	Acute - local effects
Cyclohexane	110-82-7	DNEL	2,016 mg/kg bw/day	Human, dermal	Worker (industry)	Chronic - systemic effects
n-Hexane	110-54-3	DNEL	75 mg/m³	Human, inhalatory	Worker (industry)	Chronic - systemic effects
n-Hexane	110-54-3	DNEL	11 mg/kg bw/day	Human, dermal	Worker (industry)	Chronic - systemic effects

Relevant PNECs of components of the mixture

Relevant PNECs of components						
Name of sub-stance	**CAS No**	**End-point**	**Threshold level**	**Organism**	**Environmental compartment**	**Exposure time**
Cyclohexane	110-82-7	PNEC	0.207 mg/l	Aquatic organisms	Freshwater	Short-term (single instance)
Cyclohexane	110-82-7	PNEC	0.207 mg/l	Aquatic organisms	Marine water	Short-term (single instance)
Cyclohexane	110-82-7	PNEC	3.24 mg/l	Aquatic organisms	Sewage treatment plant (STP)	Short-term (single instance)
Cyclohexane	110-82-7	PNEC	3.627 mg/kg	Aquatic organisms	Freshwater sediment	Short-term (single instance)
Cyclohexane	110-82-7	PNEC	3.627 mg/kg	Aquatic organisms	Marine sediment	Short-term (single instance)
Cyclohexane	110-82-7	PNEC	2.99 mg/kg	Terrestrial organisms	Soil	Short-term (single instance)

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Do not spray in eyes. If required use tight-fitting goggles.

Skin protection

Hand protection

Wear suitable gloves.

Type of material

NBR: acrylonitrile-butadiene rubber.

Material thickness

> 0,7 mm

Breakthrough times of the glove material

>480 minutes (permeation: level 6)

Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

Operate if possible out of doors or in a well-ventilated place. In case of inadequate ventilation wear respiratory protection. Type: A-P2 (combined filters against particles and organic gases and vapours, colour code: Brown/White).

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Aerosol (Spray aerosol)
Colour	Yellowish brown
Odour	Product specific
Melting point/freezing point	Not applicable, as aerosol.*
Initial boiling point and boiling range	Not applicable, as aerosol.*
Flammability (solid, gas)	flammable aerosol in accordance with GHS
Explosive limits	criteria 0.6 vol% - 15 vol%
Flash point	Not applicable, as aerosol.*
Auto-ignition temperature	Not applicable, as aerosol.*
Decomposition temperature	Not relevant
Viscosity	Not relevant (Aerosol)
Water solubility	Insoluble

Partition coefficient

Partition coefficient n-octanol/water (log value)	Not relevant (mixture)
Vapour pressure	3.8 bar at 20 °C
	6.8 bar at 50 °C
Density	0.65 g/ml at 20 °C
	(Calculated value)
Particle characteristics	Not applicable, as aerosol.*

9.2 Other information

* The finished mixture in an aerosol container is formed after addition of propellant. Several details are not measurable in an hermetic closed, pressurized container.

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s). Risk of ignition.

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

Do not spray on an open flame or other ignition source. Keep away from heat.

Hints to prevent fire or explosion

Protect from sunlight.

Physical stresses which might result in a hazardous situation and have to be avoided

High temperatures.

10.5 Incompatible materials

Oxidisers.

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Shall not be classified as acutely toxic.

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

- **Specific target organ toxicity - single exposure**
  May cause drowsiness or dizziness.
- **Specific target organ toxicity - repeated exposure**
  Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

11.2 Information on other hazards

There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity

Harmful to aquatic life with long lasting effects.
Ordinance on systems for handling water-polluting substances (Ordinance on facilities for handling substances hazardous to water) (AwSV): WGK (Germany) 2, obviously hazardous to water

Aquatic toxicity (chronic) of components

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane		EL50	1.6 $^{mg}/_{l}$	Daphnia magna	21 d
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane		EC50	0.23 $^{mg}/_{l}$	Daphnia magna	21 d

12.2 Persistence and degradability

Degradability of components

Name of substance	CAS No	Process	Degradation rate	Time	Method	Source
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane		Oxygen depletion	10.5 %	15 d		ECHA Chem
n-Hexane	110-54-3	Oxygen depletion	83 %	10 d		ECHA Chem

12.3 Bioaccumulative potential

Bioaccumulative potential of components

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
Butane	106-97-8		1.09 (pH value: 7, 20 °C)	
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane		≥26.26 – ≤315.7	2.96 – 3.78 (20 °C)	
Propane	74-98-6		1.09 (pH value: 7, 20 °C)	
Cyclohexane	110-82-7	167	3.44 (pH value: 7, 25 °C)	
Isobutane	75-28-5		1.09 (pH value: 7, 20 °C)	
n-Hexane	110-54-3	≥26.26 – ≤316	5.8 (20 °C)	

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of ≥ 0,1%.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Relevant provisions relating to waste

List of wastes

15 01 04 Metallic packaging
15 01 10 Packaging containing residues of or contaminated by dangerous substances
16 05 04 Containing hazardous gases in pressure containers (including halons)
15 02 02*
absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by hazardous substances

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1 UN number or ID number

ADR/RID/ADN	UN 1950
IMDG-Code	UN 1950
ICAO-TI	UN 1950

14.2 UN proper shipping name

ADR/RID/ADN	AEROSOLS
IMDG-Code	AEROSOLS
ICAO-TI	Aerosols, flammable

14.3 Transport hazard class(es)

ADR/RID/ADN	2
IMDG-Code	2.1
ICAO-TI	2.1

14.4 Packing group — Not assigned

14.5 Environmental hazards — Hazardous to the aquatic environment

14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)Additional information

Classification code	5F
Danger label(s)	2.1

Environmental hazards	Yes (hazardous to the aquatic environment)
Special provisions (SP)	190, 327, 344, 625
Excepted quantities (EQ)	E0
Limited quantities (LQ)	1 L
Transport category (TC)	2
Tunnel restriction code (TRC)	D

International Maritime Dangerous Goods Code (IMDG)Additional information

Marine pollutant	Yes (hazardous to the aquatic environment)

Danger label(s)	2.1

Special provisions (SP)	63, 190, 277, 327, 344, 381, 959
Excepted quantities (EQ)	E0
Limited quantities (LQ)	1 L
EmS	F-D, S-U
Stowage category	-

International Civil Aviation Organization (ICAO-IATA/DGR)Additional information

Environmental hazards	Yes (hazardous to the aquatic environment)
Danger label(s)	2.1

Special provisions (SP)	A145, A167
Excepted quantities (EQ)	E0
Limited quantities (LQ)	30 kg

SECTION 15: Regulatory information

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

Relevant provisions of the European Union (EU)

REACH, Annex XVII, entry 78 on SPM

SPM for which a restriction applies			
Identity of the polymer	**Particles containing SPM**	**Dry weight of SPM**	**SPM releases**
Polymers of vinyl chloride or of other halogenated olefins, in primary forms	0.231 Gew.-%	0.231 Gew.-%	0.231 Gew.-%

Instructions for use and disposal explaining to industrial downstream users how to prevent releases of synthetic polymer microparticles to the environment

see section 7 "handling and storage"
see section 13 "disposal considerations"

Additional labelling requirements

This product contains microplastics (synthetic polymer microparticle).
The synthetic polymer microparticles supplied is subject to conditions laid down by entry 78 of Annex XVII to Regulation (EC) No 1907/2006 of the European Parliament and of the Council.

List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list

Substance of Very High Concern (SVHC)			
Name acc. to inventory	**CAS No**	**Listed in**	**Remarks**
n-Hexane	110-54-3	Candidate list	STOT-re A57(f)-HH

Legend

Candidate list	Substances meeting the criteria referred to in Article 57 and for eventual inclusion in Annex XIV
STOT-re A57(f)-HH	Specific target organ toxicity - repeated exposure (article 57(f) - human health)

Industrial Emissions Directive (IED)

VOC content	77.44 %

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the ingredients are listed

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

none of the ingredients are listed

Water Framework Directive (WFD)

List of pollutants (WFD)			
Name of substance	**CAS No**	**Listed in**	**Remarks**
Butane		A)	
Isobutane		A)	
n-Hexane		A)	

Legend
a) Indicative list of the main pollutants

Regulation 648/2004/EC on detergents

Labelling of contents.
Aliphatic hydrocarbons. 30 % and more.

Regulation on persistent organic pollutants (POP)
none of the ingredients are listed

Restrictions of occupation
Directive 94/33/EC on the protection of young people at work / Observe national regulations on protection of young people at work.

National regulations (Germany)

Ordinance on systems for handling water-polluting substances (Ordinance on facilities for handling substances hazardous to water)(AwSV)

Water hazard class 2 (obviously hazardous to water)

Technical instructions on air quality control (Germany)

Number	Group of substances	Class	Conc.	Mass flow	Mass concentration	Notation
5.2.5	Organic substances		≥ 25 wt%	0.5 $^{kg}/_{h}$	50 $^{mg}/_{m^3}$	3)

Notation
3) A total mass flow of 0.50 kg/h or a total mass concentration of 50 mg/m³, each of which to be indicated as total carbon, shall not be exceeded (except organic particulate matter)

Storage of hazardous substances in non-stationary containers (TRGS 510) (Germany)

Storage class (LGK) 2 B (Aerosol dispensers or lighters)

National inventories

Country	Inventory	Status
EU	REACH Reg.	Not all ingredients are listed

Legend
REACH Reg. REACH registered substances

15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

16.1 Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
2.1		Classification according to Regulation (EC) No 1272/2008 (CLP): change in the listing (table)	Yes
2.2		Hazard statements: change in the listing (table)	Yes
2.2	Hazardous ingredients for labelling: Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	Hazardous ingredients for labelling: Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	Yes

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
2.3	Other hazards	Other hazards: REACH, Annex XVII, entry 78 on SPM.	Yes
2.3		Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.	Yes
3.2		Description of the mixture: change in the listing (table)	Yes
8.1	National limit values: This information is not available.	National limit values: Occupational exposure limit values (Workplace Exposure Limits) this information is not available	Yes
13.1	List of wastes: 15 01 04 Metallic packaging 15 01 10 Packaging containing residues of or contaminated by dangerous substances 16 05 04 Containing hazardous gases in pressure containers (including halons)	List of wastes: 15 01 04 Metallic packaging 15 01 10 Packaging containing residues of or contaminated by dangerous substances 16 05 04 Containing hazardous gases in pressure containers (including halons) 15 02 02* absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by hazardous substances	Yes
15.1		SPM for which a restriction applies: change in the listing (table)	Yes
15.1		Instructions for use and disposal explaining to industrial downstream users how to prevent releases of synthetic polymer microparticles to the environment: see section 7 "handling and storage" see section 13 "disposal considerations"	Yes
15.1		Additional labelling requirements: This product contains microplastics (synthetic polymer microparticle). The synthetic polymer microparticles supplied is subject to conditions laid down by entry 78 of Annex XVII to Regulation (EC) No 1907/2006 of the European Parliament and of the Council.	Yes
15.1		Substance of Very High Concern (SVHC): change in the listing (table)	Yes
15.1		List of pollutants (WFD): change in the listing (table)	Yes
15.1		Restrictions of occupation: Directive 94/33/EC on the protection of young people at work / Observe national regulations on protection of young people at work.	Yes

16.2 Abbreviations and acronyms

ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways).
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road).
ADR/RID/ADN	Agreements concerning the International Carriage of Dangerous Goods by Road/Rail/Inland Waterways (ADR/RID/ADN).
Aquatic Acute	Hazardous to the aquatic environment - acute hazard.
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard.
Asp. Tox.	Aspiration hazard.
BCF	Bioconcentration factor.
BOD	Biochemical Oxygen Demand.
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances).
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.
COD	Chemical oxygen demand.
DGR	Dangerous Goods Regulations (see IATA/DGR).
DMEL	Derived Minimal Effect Level.

DNEL	Derived No-Effect Level.
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval.
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union).
ED	Endocrine disruptor.
EINECS	European Inventory of Existing Commercial Chemical Substances.
EL50	Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms.
ELINCS	European List of Notified Chemical Substances.
EmS	Emergency Schedule.
Flam. Gas	Flammable gas.
Flam. Liq.	Flammable liquid.
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations.
IATA	International Air Transport Association.
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA).
ICAO	International Civil Aviation Organization.
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air.
IMDG	International Maritime Dangerous Goods Code.
IMDG-Code	International Maritime Dangerous Goods Code.
LGK	Lagerklasse (storage class according to TRGS 510, Germany).
Log KOW	n-Octanol/water.
NLP	No-Longer Polymer.
PBT	Persistent, Bioaccumulative and Toxic.
PNEC	Predicted No-Effect Concentration.
Press. Gas	Gas under pressure.
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals.
Repr.	Reproductive toxicity.
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail).
Skin Corr.	Corrosive to skin.
Skin Irrit.	Irritant to skin.
SPM	Synthetic polymer microparticle.
STOT RE	Specific target organ toxicity - repeated exposure.
STOT SE	Specific target organ toxicity - single exposure.
SVHC	Substance of Very High Concern.
TRGS	Technische Regeln für Gefahrstoffe (technical rules for hazardous substances, Germany).
VOC	Volatile Organic Compounds.
VPvB	Very Persistent and very Bioaccumulative.

16.3 Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.
Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.
Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN).
International Maritime Dangerous Goods Code (IMDG).
Dangerous Goods Regulations (DGR) for the air transport (IATA).

16.4 Classification procedure

Physical and chemical properties. The classification is based on tested mixture.
Health hazards. The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

16.5 List of relevant phrases (code and full text as stated in section 2 and 3)

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H361f	Suspected of damaging fertility.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

End of the safety data sheet