



Safety Data Sheet

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

OPN Zinc Spray - grey -
Revision: 2025-10-16

Date of compilation: 2015-08-19
Version number: 8.0

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

1.1 Product identifier

Trade name

OPN Zinc Spray - grey -

Unique formula identifier (UFI)

59SM-E5VE-9005-CF76

Other means of identification

Article number

63110

Tariff No

32082090

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

Relevant identified uses

Industrial use
Professional use
Consumer use (private households)
Paint, coating and lacquer

Sector of use

Long term protection for all metallic surfaces

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

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

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
3.3	Serious eye damage/eye irritation	Eye Irrit. 2	H319
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 2	H411

Code	Supplemental hazard information
EUH066	Repeated exposure may cause skin dryness or cracking

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, GHS09



Safety Data Sheet

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

OPN Zinc Spray - grey -
Revision: 2025-10-16

Date of compilation: 2015-08-19
Version number: 8.0

Hazard statements

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic 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.
P273 Avoid release to the environment.
P312 Call a POISON CENTER/doctor if you feel unwell.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C.
P501 Dispose of contents / container in accordance with national regulations of the disposal.

Additional labelling requirements

EUH066 Repeated exposure may cause skin dryness or cracking.
Buildup of explosive mixtures possible without sufficient ventilation.

Hazardous ingredients for labelling

Acetone

2.3 Other hazards

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

Contains an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.

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
Acetone	CAS No 67-64-1 EC No 200-662-2 REACH Reg. No 01-2119471330- 49-xxxx 01-2119498062- 37-xxxx	10 – < 25	Flam. Liq. 2 / H225 Eye Irrit. 2 / H319 STOT SE 3 / H336	 
Butane	CAS No 106-97-8 EC No 203-448-7 REACH Reg. No 01-2119474691- 32-xxxx	10 – < 25	Flam. Gas 1A / H220 Press. Gas L / H280	 
Zinc	CAS No 7440-66-6 EC No 231-175-3 REACH Reg. No 01-2119467174- 37-xxxx	10 – < 25	Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410	

Safety Data Sheet

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

OPN Zinc Spray - grey -
Revision: 2025-10-16

Date of compilation: 2015-08-19
Version number: 8.0

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
Hydrocarbons, C9, aromatics	CAS No 64742-95-6 EC No 918-668-5 REACH Reg. No 01-2119455851-35-xxxx	5 – < 10	Flam. Liq. 3 / H226 STOT SE 3 / H335 STOT SE 3 / H336 Asp. Tox. 1 / H304 Aquatic Acute 1 / H400 Aquatic Chronic 2 / H411	   
Propane	CAS No 74-98-6 EC No 200-827-9 REACH Reg. No 01-2119486944-21-xxxx	5 – < 10	Flam. Gas 1A / H220 Press. Gas C / H280	 
Di-"isononyl" phthalate	CAS No 28553-12-0 EC No 249-079-5 REACH Reg. No 01-2119430798-28	1 – < 5		

3.3 Remarks

For full text of abbreviations: see SECTION 16.

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. 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 (CO₂).

5.3 Advice for firefighters

Safety Data Sheet

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

OPN Zinc Spray - grey -

Revision: 2025-10-16

Date of compilation: 2015-08-19

Version number: 8.0

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 sourceProtect 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
Acetone	67-64-1	DNEL	1,210 mg/m³	Human, inhalatory	Worker (industry)	Chronic - systemic effects

Safety Data Sheet

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

OPN Zinc Spray - grey -
Revision: 2025-10-16

Date of compilation: 2015-08-19
Version number: 8.0

Relevant DNELs of components						
Name of sub-stance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Acetone	67-64-1	DNEL	2,420 mg/m ³	Human, inhalatory	Worker (industry)	Acute - local effects
Acetone	67-64-1	DNEL	186 mg/kg bw/day	Human, dermal	Worker (industry)	Chronic - systemic effects
Hydrocarbons, C9, aromatics	64742-95-6	DNEL	150 mg/m ³	Human, inhalatory	Worker (industry)	Chronic - systemic effects
Hydrocarbons, C9, aromatics	64742-95-6	DNEL	25 mg/kg bw/day	Human, dermal	Worker (industry)	Chronic - systemic effects
Di-"isononyl" phthalate	28553-12-0	DNEL	366 mg/kg	Human, dermal	Worker (industry)	Chronic - systemic effects
Di-"isononyl" phthalate	28553-12-0	DNEL	51.72 mg/m ³	Human, inhalatory	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
Acetone	67-64-1	PNEC	100 mg/l	Microorganisms	Sewage treatment plant (STP)	Short-term (single instance)
Acetone	67-64-1	PNEC	21 mg/l	Aquatic organisms	Water	Intermittent release
Acetone	67-64-1	PNEC	10.6 mg/l	Aquatic organisms	Freshwater	Short-term (single instance)
Acetone	67-64-1	PNEC	1.06 mg/l	Aquatic organisms	Marine water	Short-term (single instance)
Acetone	67-64-1	PNEC	100 mg/l	Aquatic organisms	Sewage treatment plant (STP)	Short-term (single instance)
Acetone	67-64-1	PNEC	30.4 mg/kg	Aquatic organisms	Freshwater sediment	Short-term (single instance)
Acetone	67-64-1	PNEC	3.04 mg/kg	Aquatic organisms	Marine sediment	Short-term (single instance)
Acetone	67-64-1	PNEC	29.5 mg/kg	Terrestrial organisms	Soil	Short-term (single instance)
Zinc	7440-66-6	PNEC	100 µg/l	Microorganisms	Sewage treatment plant (STP)	Short-term (single instance)
Zinc	7440-66-6	PNEC	14.4 µg/l	Aquatic organisms	Freshwater	Short-term (single instance)
Zinc	7440-66-6	PNEC	7.2 µg/l	Aquatic organisms	Marine water	Short-term (single instance)
Zinc	7440-66-6	PNEC	100 µg/l	Aquatic organisms	Sewage treatment plant (STP)	Short-term (single instance)
Zinc	7440-66-6	PNEC	146.9 mg/kg	Aquatic organisms	Freshwater sediment	Short-term (single instance)
Zinc	7440-66-6	PNEC	162.2 mg/kg	Aquatic organisms	Marine sediment	Short-term (single instance)
Zinc	7440-66-6	PNEC	83.1 mg/kg	Terrestrial organisms	Soil	Short-term (single instance)
Di-"isononyl" phthalate	28553-12-0	PNEC	30 mg/kg	Terrestrial organisms	Soil	Short-term (single instance)

Safety Data Sheet

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

OPN Zinc Spray - grey -

Revision: 2025-10-16

Date of compilation: 2015-08-19

Version number: 8.0

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	Grey
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 criteria
Explosive limits	5 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	
	0.86 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.

Safety Data Sheet

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

OPN Zinc Spray - grey -

Revision: 2025-10-16

Date of compilation: 2015-08-19

Version number: 8.0

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

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Causes serious eye irritation.

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.

Other information

Repeated exposure may cause skin dryness or cracking.

11.2 Information on other hazards

There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity

Toxic 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
Acetone	67-64-1	EC50	61.15 g/l	Microorganisms	30 min
Zinc	7440-66-6	LC50	330 µg/l	Fish	95 h
Zinc	7440-66-6	EC50	75 µg/l	Fish	28 d

Safety Data Sheet

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

OPN Zinc Spray - grey -
Revision: 2025-10-16

Date of compilation: 2015-08-19
Version number: 8.0

Aquatic toxicity (chronic) of components					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Zinc	7440-66-6	EbC50	6,813 µg/l	Aquatic invertebrates	21 d
Zinc	7440-66-6	ErC50	410 µg/l	Algae	10 d
Hydrocarbons, C9, aromatics	64742-95-6	EL50	4.1 mg/l	Aquatic invertebrates	24 h
Hydrocarbons, C9, aromatics	64742-95-6	EC50	>99 mg/l	Microorganisms	10 min
Di-"isononyl" phthalate	28553-12-0	EC50	>83.9 mg/l	Microorganisms	30 min

12.2 Persistence and degradability

Degradability of components						
Name of substance	CAS No	Process	Degradation rate	Time	Method	Source
Acetone	67-64-1	Carbon dioxide generation	90.9 %	28 d		ECHA
Hydrocarbons, C9, aromatics	64742-95-6	Oxygen depletion	30.9 %	2 d		ECHA
Di-"isononyl" phthalate	28553-12-0	Carbon dioxide generation	81 %	28 d		ECHA

12.3 Bioaccumulative potential

Bioaccumulative potential of components				
Name of substance	CAS No	BCF	Log KOW	BOD5/COD
Acetone	67-64-1		-0.23	963.5
Butane	106-97-8		1.09 (pH value: 7, 20 °C)	
Zinc	7440-66-6	69.48		
Propane	74-98-6		1.09 (pH value: 7, 20 °C)	
Di-"isononyl" phthalate	28553-12-0	<3	8.8 – 9.7 (pH value: 4.6, 25 °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

Contains 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/packageings

It is a dangerous waste; only packageings 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

Safety Data Sheet

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

OPN Zinc Spray - grey -

Revision: 2025-10-16

Date of compilation: 2015-08-19

Version number: 8.0

16 05 04 Containing hazardous gases in pressure containers (including halons)

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 (2.1)
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

Safety Data Sheet

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

OPN Zinc Spray - grey -
Revision: 2025-10-16

Date of compilation: 2015-08-19
Version number: 8.0



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)

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

none of the ingredients are listed

Deco-Paint Directive

VOC content 63.63 %

547.2 g/l
The maximum content of VOC of the product in a ready to use condition

Maximum VOC content limit				
Product category	Product subcategory	Coating	Type	VOC g/l
Vehicle refinishing products	Special finishes	All types		840

Industrial Emissions Directive (IED)

VOC content 63.63 %

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)

Pollutant release and transfer registers (PRTR)			
Name of substance	CAS No	Remarks	Threshold for releases to air (kg/year)
Zinc	7440-66-6	(8)	200

Legend

(8) All metals shall be reported as the total mass of the element in all chemical forms present in the release

Water Framework Directive (WFD)

List of pollutants (WFD)			
Name of substance	CAS No	Listed in	Remarks
Butane		A)	
Zinc		A)	
Hydrocarbons, C9, aromatics		A)	

Legend

a) Indicative list of the main pollutants

Regulation on persistent organic pollutants (POP)

none of the ingredients are listed

Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors, amending Regulation (EC) No 1907/2006 and repealing Regulation (EU) No 98/2013

Meldepflichtige Ausgangsstoffe für Explosivstoffe gemäß Anhang II:

Substance is listed: Acetone (CAS-Nr. 67-64-1).

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)

Safety Data Sheet

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

OPN Zinc Spray - grey -

Revision: 2025-10-16

Date of compilation: 2015-08-19

Version number: 8.0

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.	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
2.3	Endocrine disrupting properties: Does not contain an endocrine disruptor (EDC) in a concentration of ≥ 0,1%.	Endocrine disrupting properties: Contains an endocrine disruptor (ED) at a concentration of ≥ 0,1%.	Yes
15.1	VOC content: 75.29 % 647.5 g/l The maximum content of VOC of the product in a ready to use condition	VOC content: 63.63 % 547.2 g/l The maximum content of VOC of the product in a ready to use condition	Yes
15.1	VOC content: 75.29 %	VOC content: 63.63 %	Yes
15.1		National inventories: change in the listing (table)	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.
EbC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control.
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

Safety Data Sheet

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

OPN Zinc Spray - grey -

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ED	substances commercially available within the EU (European Union).
EINECS	Endocrine disruptor.
EL50	European Inventory of Existing Commercial Chemical Substances.
ELINCS	Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms.
EmS	European List of Notified Chemical Substances.
ErC50	Emergency Schedule.
Eye Dam.	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control.
Eye Irrit.	Seriously damaging to the eye.
Flam. Gas	Irritant to the eye.
Flam. Liq.	Flammable gas.
GHS	Flammable liquid.
IATA	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations.
IATA/DGR	International Air Transport Association.
ICAO	Dangerous Goods Regulations (DGR) for the air transport (IATA).
ICAO-TI	International Civil Aviation Organization.
IMDG	Technical instructions for the safe transport of dangerous goods by air.
IMDG-Code	International Maritime Dangerous Goods Code.
LC50	International Maritime Dangerous Goods Code.
LGK	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval.
Log KOW	Lagerklasse (storage class according to TRGS 510, Germany).
NLP	n-Octanol/water.
PBT	No-Longer Polymer.
PNEC	Persistent, Bioaccumulative and Toxic.
Press. Gas	Predicted No-Effect Concentration.
REACH	Gas under pressure.
RID	Registration, Evaluation, Authorisation and Restriction of Chemicals.
STOT SE	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail).
SVHC	Specific target organ toxicity - single exposure.
TRGS	Substance of Very High Concern.
VOC	Technische Regeln für Gefahrstoffe (technical rules for hazardous substances, Germany).
VPvB	Volatile Organic Compounds.
	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.
H226	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.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
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.

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