

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH), amended by  
2015/830/EU

## OPN-Zinc Repair Spray - silver-light

Version number: 1.0  
Revision: 31.08.2016

Date of compilation: 26.10.2015

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

#### Product identifier

Trade name

OPN-Zinc Repair Spray - silver-light

#### Other means of identification

Article number

63120

Tariff No.

32081010

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

Relevant identified uses

professional use  
industrial use

Sector of use

Corrosion protection and reparation paint

Uses advised against

consumer use (private households)

Do not use for products that are intended for contact  
with food - exclude food contact.

#### Details of the supplier of the safety data sheet

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### SECTION 2: Hazards identification

#### Classification of the substance or mixture

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

Section	Hazard class	Category	Hazard class and category	Hazard statement
2.3	aerosols	Cat. 1	(Aerosol 1)	H222, H229
3.3	serious eye damage/eye irritation	Cat. 2	(Eye Irrit. 2)	H319
3.8D	specific target organ toxicity - single exposure (narcotic effects, drowsiness)	Cat. 3	(STOT SE 3)	H336
4.1C	hazardous to the aquatic environment - chronic hazard	Cat. 3	(Aquatic Chronic 3)	H412

#### Remarks

For full text of H-phrases: see SECTION 16.

#### Supplemental hazard information

EUH066      Repeated exposure may cause skin dryness or cracking.

#### The most important adverse physicochemical, human health and environmental effects

Spillage and fire water can cause pollution of watercourses.

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### 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.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H411 Toxic to aquatic life with long lasting effects.

#### Precautionary statements

P101 If medical advice is needed, have product container or label at hand.  
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.  
P260 Do not breathe vapours/spray.  
P271 Use only outdoors or in a well-ventilated area.  
P273 Avoid release to the environment.  
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.  
P312 Call a POISON CENTER/doctor if you feel unwell.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.  
P501 Dispose of contents/container to hazardous or special waste.

#### 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, hydrocarbons, C9, aromatics

#### Other hazards

There is no additional information.

## SECTION 3: Composition/information on ingredients

### Mixtures

#### Description of the mixture

Mixture of substances listed below with nonhazardous additions

Name of substance	Identifier	wt%	Classification acc. to 1272/2008/EC	Pictograms
Butane	CAS No 106-97-8 EC No 203-448-7 REACH Reg. No 01-2119474691-32-xxxx	25 - < 50	Flam. Gas 1 / H220 Press. Gas L / H280	
Acetone	CAS No 67-64-1 EC No 200-662-2 REACH Reg. No 01-2119471330-49-xxxx	10 - < 25	Flam. Liq. 2 / H225 Eye Irrit. 2 / H319 STOT SE 3 / H336	

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Name of substance	Identifier	wt%	Classification acc. to 1272/2008/EC	Pictograms
Propane	CAS No 74-98-6  EC No 200-827-9  REACH Reg. No 01-2119486944-21-xxxx	10 - < 25	Flam. Gas 1 / H220 Press. Gas L / H280	 
Hydrocarbons, C9, aromatics	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 Chronic 2 / H411	   
Aluminium	CAS No 7429-90-5  EC No 231-072-3  REACH Reg. No 01-2119529243-45-xxxx	1 - < 5	Flam. Sol. 1 / H228	
Isobutane	CAS No 75-28-5  EC No 200-857-2  REACH Reg. No 01-2119485395-27-xxxx	1 - < 5	Flam. Gas 1 / H220 Press. Gas L / H280	 
Zinc	CAS No 7440-66-6  EC No 231-175-3  REACH Reg. No 01-2119467174-37-xxxx	< 2	Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410	

For full text of abbreviations: see SECTION 16.

## SECTION 4: First aid measures

### 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 action. 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

Not applicable, as aerosol.

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### Most important symptoms and effects, both acute and delayed

Narcotic effects.

### Indication of any immediate medical attention and special treatment needed

none

## SECTION 5: Firefighting measures

### Extinguishing media

#### Suitable extinguishing media

water spray, alcohol resistant foam, BC-powder

#### Unsuitable extinguishing media

water jet

### Special hazards arising from the substance or mixture

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

### Advice for firefighters

Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Remove undamaged cans from the danger area. If necessary, cool by spraying with water because of bursting. Wear fully protective suit. Wear self-contained breathing apparatus.

## SECTION 6: Accidental release measures

### 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.

#### Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose it.

### Methods and material for containment and cleaning up

#### Advices on how to contain a spill

Covering of drains.

#### Advices on how to clean up a spill

Collect spillage (sawdust, kieselgur (diatomite), sand, universal binder).

#### Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

## SECTION 7: Handling and storage

### Precautions for safe handling

#### Recommendations

##### • Measures to prevent fire as well as aerosol and dust generation

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Prevent from heating up above 50 °C.

#### 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.

### Conditions for safe storage, including any incompatibilities

#### Managing of associated risks

#### Storage class (LGK)

2B.

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### • Flammability hazards

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

### Incompatible substances or mixtures

Separate storage required for storage class: 4.1 A, 4.1 B, 4.2, 4.3, 5.1 A, 5.1 B, 5.2, 6.2, 7.

### Consideration of other advice

#### • Packaging compatibilities

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

#### Specific end use(s)

No further relevant information available.

## SECTION 8: Exposure controls/personal protection

### Control parameters

#### National limit values

#### Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m <sup>3</sup> ]	STEL [ppm]	STEL [mg/m <sup>3</sup> ]	Source
DE	Acetone	67-64-1	AGW	500	1.200	1.000	2.400	TRGS 900
DE	Aluminium	7429-90-5	MAK		4			DFG
DE	Aluminium	7429-90-5	MAK		1,5			DFG
DE	Butane	106-97-8	AGW	1.000	2.400	4.000	9.600	TRGS 900
DE	Isobutane	75-28-5	AGW	1.000	2.400	4.000	9.600	TRGS 900
DE	Oleylsarcosine	110-25-8	MAK		0,1		0,2	DFG
DE	Propane	74-98-6	AGW	1.000	1.800	4.000	7.200	TRGS 900
DE	Zinc	7440-66-6	MAK		2		4	DFG
DE	Zinc	7440-66-6	MAK		0,1		0,4	DFG
EU	Acetone	67-64-1	IOELV	500	1.210			2000/39/EC

### Notation

STEL Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period unless otherwise specified

TWA Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average

### Biological limit values

Country	Name of agent	Parameter	Notation	Identifier	Value	Source
DE	Acetone	Acetone		BLV	80 mg/l	TRGS 903
DE	Aluminium	Aluminium	Crea	BAT	60 µg/g	DFG

### Notation

crea Creatinine

### Relevant DNELs/DMELs/PNECs and other threshold levels

#### • relevant DNELs of components of the mixture

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Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Aluminium	7429-90-5	DNEL	3,72 mg/m <sup>3</sup>	Human, inhalatory	Worker (industry)	Chronic - local effects

### • relevant PNECs of components of the mixture

Name of substance	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	Continuous
Aluminium	7429-90-5	PNEC	74,9 µg/l	Aquatic organisms	Freshwater	Short-term (single instance)
Aluminium	7429-90-5	PNEC	20 mg/l	Microorganisms	Sewage treatment plant (STP)	Short-term (single instance)
Zinc	7440-66-6	PNEC	20,6 µg/l	Aquatic organisms	Freshwater	Short-term (single instance)
Zinc	7440-66-6	PNEC	100 µg/l	Microorganisms	Sewage treatment plant (STP)	Short-term (single instance)

## 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

Wear protective gloves if necessary.

- **type of material**

IIR: isobutene-isoprene (butyl) rubber

- **material thickness**

> 0,7 mm.

- **other protection measures**

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

#### Respiratory protection

In case of inadequate ventilation wear respiratory protection  
Particulate filter device (EN 143). Apply outdoors or well ventilated areas.

#### Environmental exposure controls

Use appropriate container to avoid environmental contamination.

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### SECTION 9: Physical and chemical properties

#### Information on basic physical and chemical properties

##### Appearance

Physical state	aerosol (spray aerosol)
Colour	silver
Odour	product specific

##### Other physical and chemical parameters

Initial boiling point and boiling range	Not applicable, as aerosol.*
Flash point	Not applicable, as aerosol.*
Evaporation rate	Not determined
Flammability (solid, gas)	Flammable aerosol in accordance with GHS criteria
Explosive limits	
• lower explosion limit (LEL)	3 vol%
• upper explosion limit (UEL)	15 vol%
Vapour pressure	3,8 bar at 20 °C 6,8 bar at 50 °C
Density	0,67 g/cm³ at 20 °C
Water solubility	insoluble
n-octanol/water (log KOW)	This information is not available.
Auto-ignition temperature	287 °C
Viscosity	not relevant (aerosol)
Explosive properties	none
Oxidising properties	none

##### Other information

Solvent content	91,76 %
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\* 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

#### Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials/isk of ignition

#### Chemical stability

See below "Conditions to avoid".

#### Possibility of hazardous reactions

No known hazardous reactions.

#### 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

#### Incompatible materials

There is no additional information.

#### 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.

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### SECTION 11: Toxicological information

#### Information on toxicological effects

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 sensitisier.

##### Summary of evaluation of the CMR properties

Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant.

##### Specific target organ toxicity (STOT)

- 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.

### SECTION 12: Ecological information

#### Toxicity

Harmful to aquatic life.

Water hazard class - WHC (Wassergefährdungsklasse) (WGK Germany): 2 (hazardous to water)

#### Aquatic toxicity (acute)

##### Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Butane	106-97-8	LC50	27,98 mg/l	Fish	96 hours
Butane	106-97-8	EC50	7,71 mg/l	Algae	96 hours
Acetone	67-64-1	LC50	8.120 mg/l	Fish	96 hours
Propane	74-98-6	LC50	27,98 mg/l	Fish	96 hours
Propane	74-98-6	EC50	7,71 mg/l	Algae	96 hours
Hydrocarbons, C9, aromatics		EC50	0,29 mg/l	Algae	72 hours
Isobutane	75-28-5	LC50	27,98 mg/l	Fish	96 hours
Isobutane	75-28-5	EC50	7,71 mg/l	Algae	96 hours
Zinc	7440-66-6	LC50	439 µg/l	Fish	96 hours
Zinc	7440-66-6	EC50	1.833 µg/l	Aquatic invertebrates	48 hours

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### Aquatic toxicity (chronic)

May cause long-term adverse effects in the aquatic environment.

### Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Acetone	67-64-1	EC50	61,15 $\text{g/l}$	Microorganisms	30 min
Hydrocarbons, C9, aromatics		EC50	>99 $\text{mg/l}$	Microorganisms	10 min

### Persistence and degradability

Data are not available.

### Degradability of components of the mixture

Name of substance	CAS No	Process	Degradation rate	Time
Acetone	67-64-1	Carbon dioxide generation	90,9 %	28 d
Hydrocarbons, C9, aromatics		Oxygen depletion	30,9 %	2 d

### Bioaccumulative potential

Data are not available.

### Bioaccumulative potential of components of the mixture

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
Butane	106-97-8		1,09	
Acetone	67-64-1		-0,24	
Propane	74-98-6		1,09	
Isobutane	75-28-5		1,09	

### Mobility in soil

Data are not available.

### Results of PBT and vPvB assessment

Data are not available.

### Other adverse effects

Data are not available.

### Endocrine disrupting potential

None of the ingredients are listed.

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### SECTION 13: Disposal considerations

#### 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)

#### 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

UN number	1950
UN proper shipping name	AEROSOLS
Transport hazard class(es)	
Class	2 (gases)
Subsidiary risk(s)	flammability
Packing group	not assigned to a packing group
Environmental hazards	none (non-environmentally hazardous acc. to the dangerous goods regulations)
Special precautions for user	
Provisions for dangerous goods (ADR) should be complied within the premises.	
Transport in bulk according to Annex II of MARPOL and the IBC Code	
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)

UN number	1950
Proper shipping name	AEROSOLS
Class	2
Classification code	5F
Danger label(s)	2.1



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)

UN number	1950
Proper shipping name	AEROSOLS
Class	2.1
Danger label(s)	2.1

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Special provisions (SP)	63, 190, 277, 327, 344, 959
Excepted quantities (EQ)	E0
Limited quantities (LQ)	1 L
EmS	F-D, S-U
<b>• International Civil Aviation Organization (ICAO-IATA/DGR)</b>	
UN number	1950
Proper shipping name	Aerosols, flammable
Class	2.1
Danger label(s)	2.1



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

## SECTION 15: Regulatory information

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

#### Relevant provisions of the European Union (EU)

##### • Restrictions according to REACH, Annex XVII

None of the ingredients are listed.

##### • List of substances subject to authorisation (REACH, Annex XIV)

None of the ingredients are listed.

##### • Directive 75/324/EEC relating to aerosol dispensers

Classification of the gas/aerosol      Extremely flammable

##### Labelling

Pressurized container: may burst if heated  
Keep out of the reach of children  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
Pressurized container: do not pierce or burn, even after use  
Protect from sunlight. Do not expose to temperatures exceeding 50 °C

##### • Limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products (2004/42/EC, Deco-Paint Directive)

VOC content      91,76 %  
614,8 %/

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

##### • Directive on industrial emissions (VOCs, 2010/75/EU)

VOC content      91,76 %

##### • Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

Name of substance	CAS No	Re- marks	Threshold for releases to air (kg/year)	Threshold for releases to water (kg/year)	Threshold for releases to land (kg/year)
Zinc	7440-66-6	(8)	200	100	100

##### Legend

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

#### National regulations (Germany)

##### • Administrative Regulation on Substances Hazardous to Water (VwVwS)

Wassergefährdungsklasse (WGK):      2 (hazardous to water) - classification acc. to annex 3 (VwVwS)

##### • Technical instructions on air quality control (Germany)

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Number	Group of substances	Class	Conc.	Mass flow	Mass concentration	Notation
5.2.5	Organic substances		≥ 25 Gew.-%	0,5 kg/h	50 mg/m <sup>3</sup>	3)

### Notation

3) A total mass flow of 0.50 kg/h or a total mass concentration of 50 mg/m<sup>3</sup>, 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 and lighters)

### Ordinance on the incentive tax on volatile organic compounds (VOCV)

VOC content (object of taxation):

### Chemical Safety Assessment

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

## SECTION 16: Other information

### Abbreviations and acronyms

2000/39/EC.	Commission Directive establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC.
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 européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road).
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.
CMR.	Carcinogenic, Mutagenic or toxic for Reproduction.
COD.	Chemical oxygen demand.
DFG.	Deutsche Forschungsgemeinschaft MAK-und BAT-Werte-Liste, Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Wiley-VCH, Weinheim.
DMEL.	Derived Minimal Effect Level.
DNEL.	Derived No-Effect Level.
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).
EmS.	Emergency Schedule.
Eye Dam.	Seriously damaging to the eye.
Eye Irrit.	Irritant to the eye.
Flam. Gas.	Flammable gas.
Flam. Liq.	Flammable liquid.
Flam. Sol.	Flammable solid.
GHS.	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations.
IATA/DGR.	Dangerous Goods Regulations (DGR) for the air transport (IATA).
ICAO.	International Civil Aviation Organization.
IMDG.	International Maritime Dangerous Goods Code.
LGK.	Lagerklasse (storage class according to TRGS 510, Germany).
Log KOW.	N-octanol/water.
MARPOL.	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant").
PBT.	Persistent, Bioaccumulative and Toxic.
PNEC.	Predicted No-Effect Concentration.
Ppm.	Parts per million.
Press. Gas.	Gas under pressure.
REACH.	Registration, Evaluation, Authorisation and Restriction of Chemicals.
RID.	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail).
STOT SE.	Specific target organ toxicity - single exposure.
TRGS.	Technische Regeln für Gefahrstoffe (technical rules for hazardous substances, Germany).
TRGS 900.	Arbeitsplatzgrenzwerte (TRGS 900).
TRGS 903.	Biologische Grenzwerte (TRGS 903).
VOC.	Volatile Organic Compounds.
VPvB.	Very Persistent and very Bioaccumulative.

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH), amended by  
2015/830/EU

## OPN-Zinc Repair Spray - silver-light

Version number: 1.0  
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### Key literature references and sources for data

- Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU
- Regulation (EC) No. 1272/2008 (CLP, EU GHS)

### 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).

### List of relevant phrases (code and full text as stated in chapter 2 and 3)

H220.	Extremely flammable gas.
H222.	Extremely flammable aerosol.
H225.	Highly flammable liquid and vapour.
H226.	Flammable liquid and vapour.
H228.	Flammable solid.
H229.	Pressurized 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.
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.