



# Safety Data Sheet

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

## OPN-Leak Detector Spray

Version number: 3.0  
Revision: 05.12.2017

Date of compilation: 08.12.2015

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

#### Product identifier

Trade name

OPN-Leak Detector Spray

#### Other means of identification

Article number

62010

Tariff No.

34021190

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

Relevant identified uses

industrial use  
professional use

Sector of use

To locate leaks

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. 3	(Aerosol 3)	H229
3.3	serious eye damage/eye irritation	Cat. 2	(Eye Irrit. 2)	H319

#### Remarks

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

This mixture does not meet the criteria for classification in accordance with Directive 1999/45/EC.

#### Label elements

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

#### Signal word

Warning

#### Pictograms

GHS07



#### Hazard statements

H229

Pressurized container: May burst if heated.

H319

Causes serious eye irritation.

#### 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.

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.

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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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.

### 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
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	CAS No 68891-38-3  EC No 500-234-8  REACH Reg. No 01-2119488639-16- xxxx	1 – < 5	Skin Irrit. 2 / H315 Eye Dam. 1 / H318 Aquatic Chronic 3 / H412	
Carbondioxide	CAS No 124-38-9  EC No 204-696-9	1 – < 5	Press. Gas R / H281	

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 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

Not applicable, as aerosol.

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

Symptoms and effects are not known to date.

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

none

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### SECTION 5: Firefighting measures

#### Extinguishing media

##### Suitable extinguishing media

water spray, BC-powder

##### Unsuitable extinguishing media

water jet

#### Special hazards arising from the substance or mixture

Danger of bursting container.

#### 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 of it.

#### Methods and material for containment and cleaning up

##### Advices 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.

### SECTION 7: Handling and storage

#### Precautions for safe handling

#### Recommendations

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

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.

##### • Flammability hazards

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.

##### • Control of effects

##### • Protect against external exposure, such as

frost

#### Consideration of other advice

##### • Packaging compatibilities

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

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### 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	Carbon dioxide	124-38-9	AGW	5.000	9.100	10.000	18.200	TRGS 900
EU	Carbon dioxide	124-38-9	IOELV	5.000	9.000			2009/161/EU

### 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

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

#### • relevant PNECs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	68891-38-3	PNEC	10 g/l	Aquatic organisms	Sewage treatment plant (STP)	Short-term (single instance)
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	68891-38-3	PNEC	0,071 mg/l	Aquatic organisms	Water	Intermittent release

### Exposure controls

#### Appropriate engineering controls

General ventilation.

#### Individual protection measures (personal protective equipment)

##### Eye/face protection

By designated use no eye protection necessary. Do not spray in eyes.

##### Skin protection

By designated use no hand protection necessary.

#### • other protection measures

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

##### Respiratory protection

By designated use no protection necessary. 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	colourless
Odour	product specific

##### Other physical and chemical parameters

pH (value)	weakly basic
Initial boiling point and boiling range	Not applicable, as aerosol.*
Flash point	Not applicable, as aerosol.*
Evaporation rate	Not determined
Flammability (solid, gas)	aerosol, non-flammable
Explosive limits	not determined
Vapour pressure	5 – 6 bar at 20 °C
Density	1 g/cm <sup>3</sup> at 20 °C
Water solubility	soluble
n-octanol/water (log KOW)	this information is not available
Auto-ignition temperature	250 °C
Viscosity	not relevant (aerosol)
Explosive properties	none
Oxidising properties	none

##### Other information

Solvent content	0 %
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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". risk of ignition

#### Chemical stability

See below "Conditions to avoid".

#### Possibility of hazardous reactions

No known hazardous reactions.

#### Conditions to avoid

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

oxidisers

#### 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 sensitiser.

##### 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)

Shall not be classified as a specific target organ toxicant.

##### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

### SECTION 12: Ecological information

#### Toxicity

Wassergefährdungsklasse, WGK (water hazard class) (WGK; Germany): nwg (non-hazardous to water)

#### Aquatic toxicity (acute)

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

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	68891-38-3	LC50	7,1 mg/l	Fish	96 h

#### Biodegradation

The relevant substances of the mixture are readily biodegradable.

#### Persistence and degradability

##### Degradability of components of the mixture

Name of substance	CAS No	Process	Degradation rate	Time
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	68891-38-3	DOC removal	100 %	28 d

#### Bioaccumulative potential

Data are not available.

##### Bioaccumulative potential of components of the mixture

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	68891-38-3		0,3 (pH value: 6,1, 23 °C)	
Carbondioxide	124-38-9		0,83	

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### 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.

## 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/packages

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be re-cycled. 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) (aerosol)
Subsidiary risk(s)	2.2
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	5A
Danger label(s)	2.2



Special provisions (SP)	190, 327, 344, 625
Excepted quantities (EQ)	E0
Limited quantities (LQ)	1 L
Transport category (TC)	3
Tunnel restriction code (TRC)	E

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### • International Maritime Dangerous Goods Code (IMDG)

UN number 1950  
Proper shipping name AEROSOLS  
Class 2.2  
Danger label(s) 2.2



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

### • International Civil Aviation Organization (ICAO-IATA/DGR)

UN number 1950  
Proper shipping name Aerosols, non-flammable  
Class 2.2  
Danger label(s) 2.2



Special provisions (SP) A98, 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** Non-flammable

**• 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 0 %

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

VOC content 0 %

### • 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)
Carbondioxide	124-38-9		100 million		



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### National regulations (Germany)

• **Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV)**

**Wassergefährdungsklasse, WGK (water hazard class)**      nwg (non-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 <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)

### Chemical Safety Assessment

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

## SECTION 16: Other information

### Abbreviations and acronyms

2009/161/EU.	Comission Directive establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/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).
AGW.	Workplace exposure limit.
Aquatic Chronic.	Hazardous to the aquatic environment - chronic 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.
DGR.	Dangerous Goods Regulations (see IATA/DGR).
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).
EINECS.	European Inventory of Existing Commercial Chemical Substances.
ELINCS.	European List of Notified Chemical Substances.
EmS.	Emergency Schedule.
Eye Dam.	Seriously damaging to the eye.
Eye Irrit.	Irritant to the eye.
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.
IMDG.	International Maritime Dangerous Goods Code.
IOELV.	Indicative occupational exposure limit value.
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").
NLP.	No-Longer Polymer.
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).
Skin Corr.	Corrosive to skin.
Skin Irrit.	Irritant to skin.
STEL.	Short-term exposure limit.
TRGS.	Technische Regeln für Gefahrstoffe (technical rules for hazardous substances, Germany).
TRGS 900.	Arbeitsplatzgrenzwerte (TRGS 900).
TWA.	Time-weighted average.
VOC.	Volatile Organic Compounds.

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VPvB. Very Persistent and very Bioaccumulative.

### 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)

H229.	Pressurized container: may burst if heated.
H281.	Contains refrigerated gas; may cause cryogenic burns or injury.
H315.	Causes skin irritation.
H318.	Causes serious eye damage.
H319.	Causes serious eye irritation.
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.