

# SAFETY DATA SHEET according to Regulation 1907/2006



Product name: **Anti-Seize-Metall-Spray**

Creation date: 13.12.2017 · Revision: 26.1.2018 · Version: 1

## SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

Product name

**Anti-Seize-Metall-Spray**

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

Relevant identified uses

Lubricant.

Uses advised against

No information.

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

Manufacturer

**WINKEL GmbH**

**Lisztstraße 1**

**53881 Euskirchen - Germany**

**Tel.: +49 2251 77 69 400-401**

**Fax: +49 2251 77 69 402**

**E-Mail: [info@winkelgroup.de](mailto:info@winkelgroup.de)**

**Internet: [www.winkelgroup.de](http://www.winkelgroup.de)**

### 1.4. Emergency telephone number

Emergency

112

Supplier

00386 4 581 28 11

## SECTION 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

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

Aerosol 1; H222 Extremely flammable aerosol.

Aerosol 1; H229 Pressurised container: May burst if heated.

Asp. Tox. 1; H304 May be fatal if swallowed and enters airways.

Skin Irrit. 2; H315 Causes skin irritation.

Aquatic Chronic 2; H411 Toxic to aquatic life with long lasting effects.

# SAFETY DATA SHEET according to Regulation 1907/2006



Product name: **Anti-Seize-Metall-Spray**

Creation date: 13.12.2017 · Revision: 26.1.2018 · Version: 1

## 2.2 Label elements

### 2.2.1. Labelling according to Regulation (EC) No 1272/2008 [CLP]



Signal word: **Danger**

H222 Extremely flammable aerosol.

H315 Causes skin irritation.

H411 Toxic to aquatic life with long lasting effects.

H229 Pressurised container: May burst if heated.

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.

P273 Avoid release to the environment.

P301 + P310 + P331 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Do NOT induce vomiting.

P302 + P352 + P362 + P364 IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse.

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P501 Dispose of contents/container in accordance with national regulation.

### 2.2.2. Contains:

hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (EC: 927-510-4)

### 2.2.3. Special provisions

Special hazards are not known or expected.

## 2.3. Other hazards

No information.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Product description

Hydrocarbons with a propellant.

### 3.1. Substances

For mixtures see 3.2.

# SAFETY DATA SHEET according to Regulation 1907/2006



Product name: **Anti-Seize-Metall-Spray**

Creation date: 13.12.2017 · Revision: 26.1.2018 · Version: 1

## 3.2. Mixtures

Name	CAS EC Index	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	REACH Registration No.
isobutane [C, S]	75-28-5 200-857-2 601-004-00-0	25-50	Flam. Gas 1; H220 Press. Gas; H280	01-2119485395-27
propane	74-98-6 200-827-9 601-003-00-5	10-25	Flam. Gas 1; H220 Press. Gas; H280	01-2119486944-21
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	- 927-510-4 -	10-25	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411	01-2119475515-33
aluminium powder (stabilised) [T]	7429-90-5 231-072-3 013-002-00-1	<2,5	Flam. Sol. 1; H228 Water-react. 2; H261	-
n-hexane	110-54-3 203-777-6 601-037-00-0	<1	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Repr. 2; H361f STOT RE 2; H373 Aquatic Chronic 2; H411	-

### Notes for substances:

<b>C</b>	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.
<b>S</b>	This substance may not require a label according to Article 17 (see section 1.3 of Annex I) (Table 3.1).  This substance may not require a label according to Article 23 of Directive 67/548/EEC (see section 8 of Annex VI to that Directive) (Table 3.2).
<b>T</b>	This substance may be marketed in a form which does not have the physical hazards as indicated by the classification in the entry in Part 3. If the results of the relevant method or methods in accordance with Part 2 of Annex I of this Regulation show that the specific form of substance marketed does not exhibit this physical property or these physical hazards, the substance shall be classified in accordance with the result or results of this test or these tests. Relevant information, including reference to the relevant test method(s) shall be included in the safety data sheet.

## SECTION 4. FIRST AID MEASURES

### 4.1. Description of first aid measures

#### General notes

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Never give anything by mouth to an unconscious person. Place patient in recovery position and ensure airway patency.  
No action shall be taken involving any personal risk or without suitable training.

#### Following inhalation

Leave contaminated area - breathe fresh air. Keep at rest in a position comfortable for breathing. If symptoms develop and persist, seek medical attention.

#### Following skin contact

Take off all contaminated clothing. Wash affected skin areas thoroughly with plenty of water and soap. If symptoms develop and persist, seek medical attention. Wash contaminated clothes and shoes before reuse.

# SAFETY DATA SHEET according to Regulation 1907/2006



Product name: **Anti-Seize-Metall-Spray**

Creation date: **13.12.2017** · Revision: **26.1.2018** · Version: **1**

## Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. If irritation persists, seek professional medical attention.

## Following ingestion

Not likely. Accidental ingestion: Do not induce vomiting! Immediately consult a doctor. Show the physician the safety data sheet or label. Never give anything by mouth to an unconscious person.

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

### Inhalation

Excessive exposure to spray mist, fog, or vapours may cause respiratory irritation. Coughing, sneezing, nasal discharge, labored breathing.

### Skin contact

Irritating to the skin.  
Itching, redness, pain.

### Eye contact

Contact with eyes can cause irritation (redness, tearing, pain).

### Ingestion

Ingestion is unlikely because it is an aerosol.  
Accidental ingestion:  
May cause nausea/vomiting and diarrhea.  
May be fatal if swallowed and enters airways.

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

Treat symptomatically.

## **SECTION 5. FIREFIGHTING MEASURES**

### **5.1. Extinguishing media**

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### Unsuitable extinguishing media

-

### **5.2. Special hazards arising from the substance or mixture**

#### Hazardous combustion products

In case of a fire toxic gases can be generated; do not inhale gases/smoke. In the event of fire the following can be generated: carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>).

### **5.3. Advice for firefighters**

#### Protective actions

In case of fire or heating do not breathe fumes/vapours. Cool containers at risk with water spray. If possible remove containers from endangered area. In case of fire aerosols can explode and be propelled to considerable distances in different directions.

#### Special protective equipment for firefighters

Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (EN 137).

#### Additional information

Contaminated firefighting water must be disposed of in accordance with the regulations; do not allow to reach the sewage system.

# SAFETY DATA SHEET according to Regulation 1907/2006



Product name: **Anti-Seize-Metall-Spray**

Creation date: **13.12.2017** · Revision: **26.1.2018** · Version: **1**

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

##### **Protective equipment**

Use personal protective equipment (Section 8).

##### **Emergency procedures**

Ensure adequate ventilation. Keep away from sources of ignition and/or heat; No smoking! Prevent access to unauthorised personnel. Prevent access to unprotected personnel. Avoid contact with skin and eyes. Do not breathe vapour or mist.

#### 6.1.2. For emergency responders

Use personal protective equipment.

### 6.2. Environmental precautions

Do not allow product to reach water/drains/sewage systems or permeable soil. If accidental entry into water or ground occurs, inform responsible authorities.

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

#### 6.3.1. For containment

Stem the spill if this does not pose risks.

#### 6.3.2. For cleaning up

Collect the spray cans and hand them over to an authorized waste disposal contractor. Release of liquid because of damaged aerosol can (release of large quantities): Absorb product (with inert material), collect it in special container and dispose it to a licensed hazardous-waste disposal contractor. Do not absorb spillage with sawdust or other combustible material. Dispose in accordance with applicable regulations (see Section 13). Clean residue from spill site.

#### 6.3.3. Other information

See Section 7: safe handling.

### 6.4. Reference to other sections

See also Sections 8 and 13.

## SECTION 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling

#### 7.1.1. Protective measures

##### **Measures to prevent fire**

Ensure adequate ventilation. Take precautionary measures against static discharges. Keep away from sources of ignition - no smoking. Use spark-proof tools. Pressurized container; protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Do not spray on a naked flame or incandescent material.

##### **Measures to prevent aerosol and dust generation**

Use general or local exhaust ventilation to prevent inhaling vapours and aerosols.

##### **Measures to protect the environment**

Avoid release to the environment.

#### 7.1.2. Advice on general occupational hygiene

Wear suitable protective equipment; see Section 8. Refer to instructions on label and regulations for safety and health at work. Use good personal hygiene practices – wash hands at breaks and when done working with material. Avoid contact with skin, eyes and clothes. Do not eat, drink or smoke while working. Do not breathe vapours/mist. Consider measures required in Section 8 of this safety data sheet.

# SAFETY DATA SHEET according to Regulation 1907/2006



Product name: **Anti-Seize-Metall-Spray**

Creation date: **13.12.2017** · Revision: **26.1.2018** · Version: **1**

## 7.2. Conditions for safe storage, including any incompatibilities

### 7.2.1. Technical measures and storage conditions

Store in accordance with local regulations. Keep in well closed containers. Keep in cool and well ventilated area. Protect from open fire, heat and direct sunlight. Keep away from sources of ignition. Keep away from oxidising substances. Keep away from food, drink and animal feeding stuffs.

### 7.2.2. Packaging materials

The original container of producer.

### 7.2.3. Requirements for storage rooms and vessels

Do not store in unlabelled containers.

### 7.2.4. Storage class

-

### 7.2.5. Further information on storage conditions

-

## 7.3. Specific end use(s)

### Recommendations

-

### Industrial sector specific solutions

-

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### 8.1.1. Occupational exposure limit values

Name (CAS)	Limit values		Short-term exposure limit		Remarks	Biological Tolerance Values
	ml/m <sup>3</sup> (ppm)	mg/m <sup>3</sup>	ml/m <sup>3</sup> (ppm)	mg/m <sup>3</sup>		
Aluminium metal inhalable dust (7429-90-5)	-	10	-	-		
Aluminium metal respirable dust (7429-90-5)	-	4	-	-		
n-Hexane (110-54-3)	20	72	-	-		

#### 8.1.2. Information on monitoring procedures

BS EN 14042:2003 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 482:2012+A1:2015 Workplace exposure. General requirements for the performance of procedures for the measurement of chemical agents.

# SAFETY DATA SHEET according to Regulation 1907/2006



Product name: **Anti-Seize-Metall-Spray**

Creation date: **13.12.2017** · Revision: **26.1.2018** · Version: **1**

## 8.1.3. DNEL/DMEL values

### For components

Name	Type	Exposure route	Exposure frequency	Value	Remark
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (-)	Worker	inhalation	long term (systemic effects)	2085 mg/m <sup>3</sup>	
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (-)	Worker	dermal	long term (systemic effects)	300 mg/kg bw/day	
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (-)	Consumer	inhalation	long term (systemic effects)	447 mg/m <sup>3</sup>	
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (-)	Consumer	dermal	long term (systemic effects)	149 mg/kg bw/day	
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (-)	Consumer	oral	long term (systemic effects)	149 mg/kg bw/day	

## 8.1.4. PNEC values

No information.

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering control

#### Substance/mixture related measures to prevent exposure during identified uses

Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Avoid contact with skin, eyes and clothes. Do not breathe vapours/aerosols. Keep away from foodstuffs, beverages and feed. Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation.

#### Organisational measures to prevent exposure

If this product contains ingredients with exposure limits, personal, workplace atmosphere monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protection.

#### Technical measures to prevent exposure

Provide good ventilation and local exhaust in areas with increased concentration.

### 8.2.2. Personal protective equipment

#### Eye and face protection

No requirements under normal use conditions. If there is risk of splashing into eyes, wear safety glasses with side shields (EN 166).

#### Hand protection

Protective gloves (EN 374).

#### Skin protection

Cotton protective clothing and shoes that cover the entire foot (EN ISO 20345).

#### Respiratory protection

In case of insufficient ventilation wear suitable respiratory protection. If the concentration limit values are exceeded, it is necessary to wear appropriate respiratory protection. Wear suitable protective breathing mask (EN 136) with filter A2-P2 (EN 14387).

#### Thermal hazards

-

### 8.2.3. Environmental exposure controls

#### Technical measures to prevent exposure

Prevent exposure in the environment.

# SAFETY DATA SHEET according to Regulation 1907/2006



Product name: **Anti-Seize-Metall-Spray**

Creation date: 13.12.2017 · Revision: 26.1.2018 · Version: 1

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

- <b>Physical state:</b>	liquid; aerosol
- <b>Colour:</b>	grey
- <b>Odour:</b>	

### Important health, safety and environmental information

- <b>pH</b>	No information.
- <b>Melting point/freezing point</b>	No information.
- <b>Initial boiling point/boiling range</b>	No information.
- <b>Flash point</b>	No information.
- <b>Evaporation rate</b>	No information.
- <b>Flammability (solid, gas)</b>	No information.
- <b>Explosion limits (vol%)</b>	1,5 – 10,9 vol %
- <b>Vapour pressure</b>	< 70 hPa at 20 °C
- <b>Vapour density</b>	No information.
- <b>Density</b>	<b>Density:</b> 0,8784 g/cm <sup>3</sup>
- <b>Solubility</b>	No information.
- <b>Partition coefficient</b>	No information.
- <b>Auto-ignition temperature</b>	No information.
- <b>Decomposition temperature</b>	No information.
- <b>Viscosity</b>	No information.
- <b>Explosive properties</b>	No information.
- <b>Oxidising properties</b>	No information.

### 9.2. Other information

- <b>Remarks:</b>	
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## SECTION 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

Stable under recommended transport or storage conditions.

### 10.2. Chemical stability

Product is stable under normal conditions of use, recommended handling and storage conditions.

### 10.3. Possibility of hazardous reactions

The product is stable under recommended storage and handling conditions.

### 10.4. Conditions to avoid

Avoid all possible sources of ignition (spark or flame). Do not expose to heat and direct sunlight.

### 10.5. Incompatible materials

Oxidants.

# SAFETY DATA SHEET according to Regulation 1907/2006



Product name: **Anti-Seize-Metall-Spray**

Creation date: 13.12.2017 · Revision: 26.1.2018 · Version: 1

## 10.6. Hazardous decomposition products

Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released.

## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### (a) Acute toxicity

Name	Exposure route	Type	Species	Time	Value	Method	Remark
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (-)	oral	LD <sub>50</sub>	rat		> 5840 mg/kg bw		
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (-)	dermal	LD <sub>50</sub>	rat	24 h	> 2920 mg/kg bw		
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (-)	inhalation (vapours)	LC <sub>50</sub>	rat	4 h	> 23300 mg/m <sup>3</sup>	OECD 403	
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (-)	dermal	LD <sub>50</sub>	rat	24 h	> 2920 mg/kg bw		
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (-)	inhalation (vapours)	LC <sub>50</sub>	rat	4 h	> 23300 mg/m <sup>3</sup>	OECD 403	

#### (b) Skin corrosion/irritation

Name	Species	Time	Result	Method	Remark
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (-)			Irritating.		

**Additional information:** Causes skin irritation.

#### (c) Serious eye damage/irritation

Name	Species	Time	Result	Method	Remark
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (-)			Not classified.		
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (-)			Contact with skin may cause irritation.		

#### (d) Respiratory or skin sensitisation

No information.

#### (e) (Germ cell) mutagenicity

Name	Type	Species	Time	Result	Method	Remark
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (-)	Genotoxicity			Negative.		

#### (f) Carcinogenicity

Name	Exposure route	Type	Species	Time	Value	Result	Method	Remark
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (-)						Substance is not classified as carcinogenic.		

#### (g) Reproductive toxicity

Name	Reproductive toxicity type	Type	Species	Time	Value	Result	Method	Remark
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (-)	Reproductive toxicity	-	rat			The results of animal studies gave no indication of a fertility impairing effect.		
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (-)	Developmental toxicity		rat			Did not show teratogenic effects in animal experiments.		
n-hexane (110-54-3)	Reproductive toxicity	-				Suspected of damaging fertility.		

# SAFETY DATA SHEET according to Regulation 1907/2006



Product name: **Anti-Seize-Metall-Spray**

Creation date: 13.12.2017 · Revision: 26.1.2018 · Version: 1

## Summary of evaluation of the CMR properties

No information.

### (h) STOT-single exposure

Name	Exposure route	Type	Species	Time	Organ	Value	Result	Method	Remark
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (-)	inhalation	-					May cause effects on the central nervous system.		high vapours concentrations
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (-)	inhalation	-					Symptoms: nausea, unconsciousness.		high vapours concentrations
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (-)	inhalation	-					Symptoms: mucous membrane irritation.		high vapours concentrations
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (-)	inhalation	-					May cause respiratory irritation.		high vapours concentrations
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (-)	oral	-					May cause irritation of the digestive tract.		
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (-)	-	-					May cause drowsiness or dizziness.		

### (i) STOT-repeated exposure

No information.

### (j) Aspiration hazard

Name	Result	Method	Remark
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (-)	Aspiration into the lungs can cause lung damage.		The exposed person should be kept under medical surveillance for 48 hours.
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (-)	May be fatal if swallowed and enters airways.		

**Additional information:** May be fatal if swallowed and enters airways.

## SECTION 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity

#### 12.1.1. Acute (short-term) toxicity

##### For components

Substance (CAS Nr.)	Type	Value	Exposure time	Species	Organism	Method	Remark
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (-)	EL <sub>50</sub>	10 – 30 mg/L	72 h	algae	<i>Selenastrum capricornutum</i>		
	ErL <sub>50</sub>	10 – 30 mg/L	72 h	algae	<i>Pseudokirchneriella subcapitata</i>	OECD 201	
	EbL <sub>50</sub>	10 – 30 mg/L	72 h	algae	<i>Pseudokirchneriella subcapitata</i>	OECD 201	
	EL <sub>50</sub>	3 mg/L	48 h	crustacea	<i>Daphnia magna</i>	OECD 202	
	LL <sub>50</sub>	> 13,4 mg/L	96 h	fish	<i>Oncorhynchus mykiss</i>	OECD 203	
	NOELR	6,3 mg/L	72 h		<i>Pseudokirchneriella subcapitata</i>	OECD 201	

# SAFETY DATA SHEET according to Regulation 1907/2006



Product name: **Anti-Seize-Metall-Spray**

Creation date: 13.12.2017 · Revision: 26.1.2018 · Version: 1

## 12.1.2. Chronic (long-term) toxicity

### For components

Substance (CAS Nr.)	Type	Value	Exposure time	Species	Organism	Method	Remark
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (-)	NOELR	1 mg/l	21 days	crustacea	<i>Daphnia magna</i>	OECD 211	
	NOELR	1,53 mg/l	28 days	fish	<i>Oncorhynchus mykiss</i>		QSAR Petoxtox

## 12.2. Persistence and degradability

### 12.2.1. Abiotic degradation, physical- and photo-chemical elimination

No information.

### 12.2.2. Biodegradation

#### For components

Substance (CAS Nr.)	Type	Rate	Time	Evaluation	Method	Remark
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (-)	biodegradability	98 %	28 days	readily biodegradable	OECD 301F	

## 12.3. Bioaccumulative potential

### 12.3.1. Partition coefficient

No information.

### 12.3.2. Bioconcentration factor (BCF)

No information.

## 12.4. Mobility in soil

### 12.4.1. Known or predicted distribution to environmental compartments

No information.

### 12.4.2. Surface tension

No information.

### 12.4.3. Adsorption/Desorption

No information.

## 12.5. Results of PBT and vPvB assessment

No evaluation.

## 12.6. Other adverse effects

No information.

## 12.7. Additional information

### For product

Toxic to aquatic life with long lasting effects.

Water hazard class 3 (Self-assessment): very hazardous for water.

Avoid release to the environment.

### For components

#### Substance: hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).

# SAFETY DATA SHEET according to Regulation 1907/2006



Product name: **Anti-Seize-Metall-Spray**

Creation date: **13.12.2017** · Revision: **26.1.2018** · Version: **1**

## SECTION 13. DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

#### 13.1.1. Product / Packaging disposal

##### Waste chemical

Avoid release to the environment. Product and container must be disposed of safely. Dispose of in accordance with applicable waste disposal regulation. Disposal must be made according to official regulations: deliver it to authorised collector/remover/transformer of hazardous waste.

##### Packaging

Uncleaned containers should not be perforated, cut or welded. Pressurized container. Do not pierce or burn, even after use. Dispose of in accordance with applicable waste disposal regulation. Deliver completely emptied containers to approved waste disposal authorities.

#### 13.1.2. Waste treatment-relevant information

-

#### 13.1.3. Sewage disposal-relevant information

-

#### 13.1.4. Other disposal recommendations

-

## SECTION 14. TRANSPORT INFORMATION

### 14.1. UN number

UN 1950

### 14.2. UN proper shipping name

AEROSOLS

IMDG name: AEROSOLS (hydrocarbons, C7, n-alkanes, isoalkanes, cyclics)

### 14.3. Transport hazard class(es)

2

### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

Additional labeling: ENVIRONMENTALLY HAZARDOUS

IMDG: MARINE POLLUTANT

### 14.6. Special precautions for user

#### Limited quantities

1 L

#### Tunnel restriction code

(D)

#### IMDG EmS

F-D, S-U

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

Goods may not be carried in bulk in bulk containers, containers or vehicles.



# SAFETY DATA SHEET according to Regulation 1907/2006



Product name: **Anti-Seize-Metall-Spray**

Creation date: **13.12.2017** · Revision: **26.1.2018** · Version: **1**

## SECTION 15. REGULATORY INFORMATION

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

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2015/830)
- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

#### 15.1.1. Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)

Not applicable.

### 15.2. Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

## SECTION 16. OTHER INFORMATION

### Indication of changes

-

### Abbreviations and acronyms

ATE - Acute Toxicity Estimate  
ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road  
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
CEN - European Committee for Standardisation  
C&L - Classification and Labelling  
CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008  
CAS# - Chemical Abstracts Service number  
CMR - Carcinogen, Mutagen, or Reproductive Toxicant  
CSA - Chemical Safety Assessment  
CSR - Chemical Safety Report  
DMEL - Derived Minimal Effect Level  
DNEL - Derived No Effect Level  
DPD - Dangerous Preparations Directive 1999/45/EC  
DSD - Dangerous Substances Directive 67/548/EEC  
DU - Downstream User  
EC - European Community  
ECHA - European Chemicals Agency  
EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)  
EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)  
EEC - European Economic Community  
EINECS - European Inventory of Existing Commercial Substances  
ELINCS - European List of notified Chemical Substances  
EN - European Standard  
EQS - Environmental Quality Standard  
EU - European Union  
Euphrac - European Phrase Catalogue  
EWC - European Waste Catalogue (replaced by LoW – see below)  
GES - Generic Exposure Scenario  
GHS - Globally Harmonized System  
IATA - International Air Transport Association  
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air  
IMDG - International Maritime Dangerous Goods  
IMSBC - International Maritime Solid Bulk Cargoes  
IT - Information Technology  
IUCLID - International Uniform Chemical Information Database  
IUPAC - International Union for Pure Applied Chemistry  
JRC - Joint Research Centre  
Kow - octanol-water partition coefficient

# SAFETY DATA SHEET according to Regulation 1907/2006



Product name: **Anti-Seize-Metall-Spray**

Creation date: **13.12.2017** · Revision: **26.1.2018** · Version: **1**

LC<sub>50</sub> - Lethal Concentration to 50 % of a test population  
LD<sub>50</sub> - Lethal Dose to 50% of a test population (Median Lethal Dose)  
LE - Legal Entity  
LoW - List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)  
LR - Lead Registrant  
M/I - Manufacturer / Importer  
MS - Member States  
MSDS - Material Safety Data Sheet  
OC - Operational Conditions  
OECD - Organization for Economic Co-operation and Development  
OEL - Occupational Exposure Limit  
OJ - Official Journal  
OR - Only Representative  
OSHA - European Agency for Safety and Health at work  
PBT - Persistent, Bioaccumulative and Toxic substance  
PEC - Predicted Effect Concentration  
PNEC(s) - Predicted No Effect Concentration(s)  
PPE - Personal Protection Equipment  
(Q)SAR - Qualitative Structure Activity Relationship  
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006  
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail  
RIP - REACH Implementation Project  
RMM - Risk Management Measure  
SCBA - Self-Contained Breathing Apparatus  
SDS - Safety data sheet  
SIEF - Substance Information Exchange Forum  
SME - Small and Medium sized Enterprises  
STOT - Specific Target Organ Toxicity  
(STOT) RE - Repeated Exposure  
(STOT) SE - Single Exposure  
SVHC - Substances of Very High Concern  
UN - United Nations  
vPvB - Very Persistent and Very Bioaccumulative

## Key literature references and sources for data

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## List of relevant H phrases

H220 Extremely flammable gas.  
H225 Highly flammable liquid and vapour.  
H228 Flammable solid.  
H261 In contact with water releases flammable gases.  
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.  
H373 May cause damage to organs through prolonged or repeated exposure .  
H411 Toxic to aquatic life with long lasting effects.

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The information of this SDS is based on the present state of our knowledge and meets the requirements of EU and national laws. The user's working conditions however, are beyond our knowledge and control. The product is not to be used for purposes other than those specified under Section 1 without a written permission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. Handling of the product may only be done by people above 18 years of age, who are satisfactorily informed of how to do the work, the hazardous properties and necessary safety precautions. The information given in this SDS is to describe the product only in terms of health and safety requirements and should not, therefore, be construed as guaranteeing specific properties.