



ODRDZEWIACZ RUST SHOCK SPRAY

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier: ODRDZEWIACZ RUST SHOCK SPRAY

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

Relevant uses: Product to loosen screws.

Uses advised against: All uses not specified in this section or in section 7.3

1.3 Details of the supplier of the safety data sheet:

Agencja Handlowa "BOLL" Wojciech Dalewski Spólka Jawna

ul. Chemiczna 3

65-713 Zielona Góra - Polska

Phone.: 68 451 99 99 - Fax: 68 451 99 00

technolog@boll.pl

1.4 Emergency telephone number:

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

CLP Regulation (EC) No 1272/2008:

Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.

Aerosol 1: Flammable aerosols, Category 1, H222

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

Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard, Category 3, H412

Eye Irrit. 2: Eye irritation, Category 2, H319 Skin Irrit. 2: Skin irritation, Category 2, H315

STOT SE 3: Specific toxicity causing drowsiness and dizziness, single exposure, Category 3, H336

2.2 Label elements:

CLP Regulation (EC) No 1272/2008:

Danger





Hazard statements:

H222 - Extremely flammable aerosol

H229 - Pressurised container: May burst if heated

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H336 - May cause drowsiness or dizziness

H412 - Harmful 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 dust/fume/gas/mist/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

P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor

P302+P352: IF ON SKIN: Wash with plenty of water

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing

P331: Do NOT induce vomiting

P403: Store in a well-ventilated place

P410+P412: Protect from sunlight. Do no expose to temperatures exceeding 50 °C/122°F

P501: Dispose of contents/container in accordance with regulations on hazardous waste or packaging and packaging waste

respectively



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SECTION 2: HAZARDS IDENTIFICATION (continued)

2.3 Other hazards:

Product fails to meet PBT/vPvB criteria

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Non-applicable

3.2 Mixture:

Chemical description: active ingredient mixture with a propellant

Components:

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

| | Identification | | Chemical name/Classification | Concentration |
|--|--|--|---|---------------|
| | | Butane ⁽¹⁾ | ATP CLP00 | |
| Index: | ex: 601-004-00-0 | | Flam. Gas 1: H220; Press. Gas: H280 - Danger | 50 - <75 % |
| | | Propane ⁽¹⁾ | ATP CLP00 | |
| Index: | 200-827-9 601-003-00-5 01-2119486944-21-XXXX | Regulation 1272/2008 | Flam. Gas 1: H220; Press. Gas: H280 - Danger | 10 - <25 % |
| CAS: Non-applicable | | Hydrocarbons, C6-C7 | , n-alkanes, isoalkanes, cyclics, <5% n-hexane(1) Self-classified | |
| Index: | EC: 921-024-6 Index: Non-applicable REACH: 01-2119475514-35-XXXX | | Aquatic Chronic 2: H411; Asp. Tox. 1: H304; Flam. Liq. 2: H225; Skin Irrit. 2: H315; STOT SE 3: H336 - Danger | |
| | 67-64-1 | Acetone(1) | ATP CLP00 | |
| EC: 200-662-2 Index: 606-001-00-8 REACH: 01-2119471330-49-XXXX | Regulation 1272/2008 | Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336; EUH066 - Danger | <1 % | |
| | 21652-27-7 | (Z)-2-(8-heptadecen | yl)-4,5-dihydro-1H-imidazole-1-ethanol ⁽¹⁾ Self-classified | |
| EC: 244-501-4 Index: Non-applicable REACH: Non-applicable | Regulation 1272/2008 | Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Eye Dam. 1: H318; Skin Corr. 1C: H314 - Danger | <1 % | |

⁽¹⁾ Voluntarily-listed substance failing to meet any of the criteria set out in Regulation (EU) No. 2015/830

To obtain more information on the hazards of the substances consult sections 8, 11, 12, 15 and 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

By eye contact:

Rinse eyes thoroughly with water for at least 15 minutes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case removal could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS for the product.

By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

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Safety data sheet According to 1907/2006/EC (REACH), 2015/830/EU

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SECTION 4: FIRST AID MEASURES (continued

4.2 Most important symptoms and effects, both acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of any immediate medical attention and special treatment needed:

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO₂). IT IS RECOMMENDED NOT to use tap water as an extinguishing agent.

5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Destroy any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

6.2 Environmental precautions:

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

6.3 Methods and material for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions



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SECTION 7: HANDLING AND STORAGE (continued)

Avoid the evaporation of the product as it contains flammable substances, which could form flammable vapour/air mixtures in the presence of sources of ignition. Control sources of ignition (mobile phones, sparks,...) and transfer at slow speeds to avoid the creation of electrostatic charges. Avoid splashes and pulverizations. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.: 5 °C

Maximum Temp.: 20 °C

Maximum time: 24 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace

| | Identification | Environmental limits | | |
|--------------|----------------|----------------------|---------|------------------------|
| Acetone | | IOELV (8h) | 500 ppm | 1210 mg/m ³ |
| CAS: 67-64-1 | EC: 200-662-2 | IOELV (STEL) | | |

DNEL (Workers):

| | | Short e | xposure | Long ex | xposure |
|---|------------|----------------|----------------------------------|----------------------------------|----------------|
| Identification | | Systemic | Local | Systemic | Local |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| CAS: Non-applicable | Dermal | Non-applicable | Non-applicable | 758 - 788 mg/kg | Non-applicable |
| EC: 921-024-6 | Inhalation | Non-applicable | Non-applicable | 2020 - 2050 mg/m ³ | Non-applicable |
| Acetone | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| CAS: 67-64-1 | Dermal | Non-applicable | Non-applicable | 171 - 201 mg/kg | Non-applicable |
| EC: 200-662-2 | Inhalation | Non-applicable | 2405 - 2435 mg/m ³ | 1195 - 1225 mg/m ³ | Non-applicable |

DNEL (General population):

| | | Short e | xposure | Long e | xposure |
|---|------------|----------------|----------------|-----------------------------|----------------|
| Identification | | Systemic | Local | Systemic | Local |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | Oral | Non-applicable | Non-applicable | 684 - 714 mg/kg | Non-applicable |
| CAS: Non-applicable | Dermal | Non-applicable | Non-applicable | 684 - 714 mg/kg | Non-applicable |
| EC: 921-024-6 | Inhalation | Non-applicable | Non-applicable | 593 - 623 mg/m ³ | Non-applicable |
| Acetone | Oral | Non-applicable | Non-applicable | 47 - 77 mg/kg | Non-applicable |
| CAS: 67-64-1 | Dermal | Non-applicable | Non-applicable | 47 - 77 mg/kg | Non-applicable |
| EC: 200-662-2 | Inhalation | Non-applicable | Non-applicable | 185 - 215 mg/m ³ | Non-applicable |

PNEC:



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

| Identification | | | | |
|----------------|--------------|-------------------|-------------------------|----------------------|
| Acetone | STP | 85 - 115 mg/L | Fresh water | -4,4 - 25,6 mg/L |
| CAS: 67-64-1 | Soil | 14,5 - 44,5 mg/kg | Marine water | -13,94 - 16,06 mg/L |
| EC: 200-662-2 | Intermittent | 6 - 36 mg/L | Sediment (Fresh water) | 15,4 - 45,4 mg/kg |
| | Oral | Non-applicable | Sediment (Marine water) | -11,96 - 18,04 mg/kg |

8.2 Exposure controls:

A.- General security and hygiene measures in the work place

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Directive 89/686/EC. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1.

All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

| Pictogram | PPE | Labelling | CEN Standard | Remarks |
|--|-----------------------------------|-----------|---------------------|--|
| Mandatory respiratory tract protection | Filter mask for gases and vapours | CAT III | EN 405:2001+A1:2009 | Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment. |

C.- Specific protection for the hands

| Pictogram | PPE | Labelling | CEN Standard | Remarks |
|---------------------------|--|-----------|--------------|---|
| Mandatory hand protection | Protective gloves against minor risks | CATI | | Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE III gloves in line with standards EN 420 and EN 374. |

[&]quot;As the product is a mixture of several substances, the resistance of the glove material can not be predicted in advance with total reliability and has therefore to be checked prior to the application"

D.- Ocular and facial protection

| Pictogram | PPE | Labelling | CEN Standard | Remarks |
|---------------------------|--|-----------|---------------------------------|---|
| Mandatory face protection | Panoramic glasses against splash/projections. | CATII | EN 166:2001 EN ISO 4007:2012 | Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing. |

E.- Body protection

| Pictogram | PPE | Labelling | CEN Standard | Remarks |
|------------------------------------|--|-----------|--|------------------------------------|
| Mandatory complete body protection | Antistatic and fireproof protective clothing | CAT III | EN 1149-1:2006 EN 1149-2:1997 EN 1149-3:2004 EN 168:2001 EN ISO 14116:2015 EN 1149-5:2008 | Limited protection against flames. |

F.- Additional emergency measures

| ANSI Z358-1 ISO 3864-1:2002 ISO 3864-1:2002 | Emergency measure | Standards | Emergency measure | Standards |
|---|-------------------|--------------------------------|-------------------|-------------------------------|
| Emergency shower Eyewash stations | | ANSI Z358-1 ISO 3864-1:2002 | | DIN 12 899 ISO 3864-1:2002 |

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

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Non-applicable *

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

Physical state at 20 °C: Liquid
Appearance: Fluid

Colour: Characteristic
Odour: Characteristic
Odour threshold: Non-applicable *

Volatility:

Boiling point at atmospheric pressure: -44 °C

Vapour pressure at 20 °C: 399967 Pa

Vapour pressure at 50 °C: Non-applicable *

Evaporation rate at 20 °C: **Product description:**

Density at 20 °C: 598 kg/m³
Relative density at 20 °C: 0,598

Dynamic viscosity at 20 °C:

Kinematic viscosity at 20 °C:

Kinematic viscosity at 40 °C:

Concentration:

PH:

Non-applicable *

Non-applicable *

Non-applicable *

Non-applicable *

Non-applicable *

Non-applicable *

Partition coefficient n-octanol/water 20 °C:

Solubility in water at 20 °C:

Non-applicable *

Solubility properties:

Insoluble in water

Decomposition temperature:

Melting point/freezing point:

Explosive properties:

Non-applicable *

Non-applicable *

Non-applicable *

Non-applicable *

Flammability:

Flash Point: -97 °C

Flammability (solid, gas): Non-applicable *

Autoignition temperature: 200 °C

Lower flammability limit: 0,8 % Volume
Upper flammability limit: 10,9 % Volume

Explosive:

Lower explosive limit:

Upper explosive limit:

Non-applicable *

Non-applicable *

9.2 Other information:

Surface tension at 20 °C:

Refraction index:

Non-applicable *

Non-applicable *

*Not relevant due to the nature of the product, not providing information property of its hazards.

SECTION 10: STABILITY AND REACTIVITY



According to 1907/2006/EC (REACH), 2015/830/EU

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SECTION 10: STABILITY AND REACTIVITY (continued)

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

10.2 Chemical stability:

Chemically stable under the conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

| Shock and friction | Contact with air | Increase in temperature | Sunlight | Humidity |
|--------------------|------------------|-------------------------|---------------------|----------------|
| Not applicable | Not applicable | Risk of combustion | Avoid direct impact | Not applicable |

10.5 Incompatible materials:

| Acids | Water | Combustive materials | Combustible materials | Others |
|--------------------|----------------|----------------------|-----------------------|-------------------------------|
| Avoid strong acids | Not applicable | Avoid direct impact | Not applicable | Avoid alkalis or strong bases |

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO2), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

- A- Ingestion (acute effect):
 - Acute toxicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
 - Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.
- B- Inhalation (acute effect):
 - Acute toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for inhalation. For more information see section 3.
 - Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it does contain substances classified as dangerous for this effect. For more information see section 3.
- C- Contact with the skin and the eyes (acute effect):
 - Contact with the skin: Produces skin inflammation.
 - Contact with the eyes: Produces eye damage after contact.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
 - Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.

 IARC: Non-applicable
 - Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
 - Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- E- Sensitizing effects:
 - Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3.
 - Cutaneous: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.



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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

F- Specific target organ toxicity (STOT) - single exposure:

Exposure in high concentration can interfere with the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.

- G- Specific target organ toxicity (STOT)-repeated exposure:
 - Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
 - Skin: Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.
- H- Aspiration hazard:

Based on available data, the classification criteria are not met. However, it does contain substances classified as dangerous for this effect. For more information see section 3.

Other information:

Non-applicable

Specific toxicology information on the substances:

| Identification | Д | Acute toxicity | |
|---|-----------------|----------------|--------|
| Butane | LD50 oral | >2000 mg/kg | |
| CAS: 106-97-8 | LD50 dermal | >2000 mg/kg | |
| EC: 203-448-7 | LC50 inhalation | 658 mg/L (4 h) | Rat |
| Propane | LD50 oral | >2000 mg/kg | |
| CAS: 74-98-6 | LD50 dermal | >2000 mg/kg | |
| EC: 200-827-9 | LC50 inhalation | >5 mg/L (4 h) | |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | LD50 oral | 5840 mg/kg | Rat |
| CAS: Non-applicable | LD50 dermal | 2920 mg/kg | Rat |
| EC: 921-024-6 | LC50 inhalation | >20 mg/L (4 h) | |
| Acetone | LD50 oral | 5800 mg/kg | Rat |
| CAS: 67-64-1 | LD50 dermal | 7426 mg/kg | Rabbit |
| EC: 200-662-2 | LC50 inhalation | 76 mg/L (4 h) | Rat |
| (Z)-2-(8-heptadecenyl)-4,5-dihydro-1H-imidazole-1-ethanol | LD50 oral | >2000 mg/kg | |
| CAS: 21652-27-7 | LD50 dermal | >2000 mg/kg | |
| EC: 244-501-4 | LC50 inhalation | Non-applicable | |

SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

12.1 Toxicity:

| Identification | Acute toxicity | | Species | Genus | |
|---|----------------------|------------------|-----------------------|------------|--|
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | LC50 5.1 mg/L (96 h) | | Oncorhynchus mykiss | Fish | |
| CAS: Non-applicable | EC50 | Non-applicable | | | |
| EC: 921-024-6 | | Non-applicable | | | |
| Acetone | LC50 | 5540 mg/L (96 h) | Oncorhynchus mykiss | Fish | |
| CAS: 67-64-1 | EC50 | 23.5 mg/L (48 h) | Daphnia magna | Crustacean | |
| EC: 200-662-2 | | 3400 mg/L (48 h) | Chlorella pyrenoidosa | Algae | |
| (Z)-2-(8-heptadecenyl)-4,5-dihydro-1H-imidazole-1-ethanol | LC50 | 0.3 mg/L (96 h) | Oncorhynchus mykiss | Fish | |
| CAS: 21652-27-7 | EC50 | 0.34 mg/L (48 h) | Daphnia magna | Crustacean | |
| EC: 244-501-4 | EC50 | 0.3 mg/L (96 h) | N/A | Algae | |

12.2 Persistence and degradability:

According to 1907/2006/EC (REACH), 2015/830/EU ODRDZEWIACZ RUST SHOCK SPRAY

SECTION 12: ECOLOGICAL INFORMATION (continued)

| Identification | Degradability | | Biodegradability | |
|---|---------------|----------------|------------------|----------------|
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | BOD5 | Non-applicable | Concentration | Non-applicable |
| CAS: Non-applicable | COD | Non-applicable | Period | 28 days |
| EC: 921-024-6 | BOD5/COD | Non-applicable | % Biodegradable | 98 % |
| Acetone | BOD5 | Non-applicable | Concentration | 100 mg/L |
| CAS: 67-64-1 | COD | Non-applicable | Period | 28 days |
| EC: 200-662-2 | BOD5/COD | 0.96 | % Biodegradable | 96 % |

12.3 Bioaccumulative potential:

| Identification | Bioac | Bioaccumulation potential | | |
|----------------|-----------|---------------------------|--|--|
| Butane | BCF | 33 | | |
| CAS: 106-97-8 | Pow Log | 2.89 | | |
| EC: 203-448-7 | Potential | Moderate | | |
| Propane | BCF | 13 | | |
| CAS: 74-98-6 | Pow Log | 2.86 | | |
| EC: 200-827-9 | Potential | Low | | |
| Acetone | BCF | 1 | | |
| CAS: 67-64-1 | Pow Log | -0.24 | | |
| EC: 200-662-2 | Potential | Low | | |

12.4 Mobility in soil:

| Identification | Absorption/desorption | | Volatility | |
|----------------|-----------------------|----------------------|------------|--------------------|
| Butane | Koc | 900 | Henry | 96258,75 Pa·m³/mol |
| CAS: 106-97-8 | Conclusion | Low | Dry soil | Yes |
| EC: 203-448-7 | Surface tension | 1,187E-2 N/m (25 °C) | Moist soil | Yes |
| Propane | Koc | 460 | Henry | 71636,78 Pa·m³/mol |
| CAS: 74-98-6 | Conclusion | Moderate | Dry soil | Yes |
| EC: 200-827-9 | Surface tension | 7,02E-3 N/m (25 °C) | Moist soil | Yes |
| Acetone | Koc | 1 | Henry | 2,93 Pa·m³/mol |
| CAS: 67-64-1 | Conclusion | Very High | Dry soil | Yes |
| EC: 200-662-2 | Surface tension | 2,304E-2 N/m (25 °C) | Moist soil | Yes |

12.5 Results of PBT and vPvB assessment:

Product fails to meet PBT/vPvB criteria

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

| Code | Description | Waste class (Regulation (EU) No 1357/2014) |
|-----------|---|---|
| 16 05 04* | gases in pressure containers (including halons) containing hazardous substances | Dangerous |

Type of waste (Regulation (EU) No 1357/2014):

HP3 Flammable, HP14 Ecotoxic, HP4 Irritant — skin irritation and eye damage, HP5 Specific Target Organ Toxicity (STOT) /Aspiration Toxicity

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

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According to 1907/2006/EC (REACH), 2015/830/EU

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SECTION 13: DISPOSAL CONSIDERATIONS (continued)

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to ADR 2017 and RID 2017:



14.1 UN number: UN1993

14.2 UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (Acetone)

14.3 Transport hazard class(es): 3Labels: 314.4 Packing group: I

14.4 Packing group: 1

14.5 Environmental hazards: No

14.6 Special precautions for user

Special regulations: 274, 601
Tunnel restriction code: D/E
Physico-Chemical properties: see section 9

Limited quantities:

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

Non-applicable

Transport of dangerous goods by sea:

With regard to IMDG 38-16:

14.1 UN number: UN1993

14.2 UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (Acetone)

 14.3
 Transport hazard class(es):
 3

 Labels:
 3

 14.4
 Packing group:
 I

14.5 Environmental hazards: No

14.6 Special precautions for user

Special regulations: 274
EmS Codes: F-E, S-E
Physico-Chemical properties: see section 9

Limited quantities: 0

Segregation group: Non-applicable

14.7 Transport in bulk according to Annex II of Marpol and

the IBC Code:

Transport of dangerous goods by air:

With regard to IATA/ICAO 2018:



14.1 UN number: UN1993

14.2 UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (Acetone)

 14.3
 Transport hazard class(es):
 3

 Labels:
 3

 14.4
 Packing group:
 I

14.5 Environmental hazards: No

14.6 Special precautions for user

Physico-Chemical properties: see section 9 **14.7 Transport in bulk according** Non-applicable to Annex II of Marpol and

the IBC Code:

SECTION 15: REGULATORY INFORMATION

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Safety data sheet According to 1907/2006/EC (REACH), 2015/830/EU

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SECTION 15: REGULATORY INFORMATION (continued)

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

Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable

Article 95, REGULATION (EU) No 528/2012: Non-applicable

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

Seveso III:

| Section | Description | Lower-tier requirements | Upper-tier requirements |
|---------|-------------|-------------------------|-------------------------|
| P3a | | 150 | 500 |

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc):

Regulation (EU) No 98/2013 of the European Parliament and of the Council of 15 January 2013 on the marketing and use of explosives precursors: Contains Acetone. Product under the provisions of Article 9
Shall not be used in:

- —ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays.
- -tricks and jokes,
- —games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

The product could be affected by sectorial legislation

15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (Regulation (EC) No 2015/830)

Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:

Non-applicable

Texts of the legislative phrases mentioned in section 2:

H222: Extremely flammable aerosol

H315: Causes skin irritation

H319: Causes serious eye irritation

H336: May cause drowsiness or dizziness

H412: Harmful to aquatic life with long lasting effects

H229: Pressurised container: May burst if heated

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

CLP Regulation (EC) No 1272/2008:



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SECTION 16: OTHER INFORMATION (continued)

Acute Tox. 4: H302 - Harmful if swallowed Aquatic Acute 1: H400 - Very toxic to aquatic life

Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways

Eye Dam. 1: H318 - Causes serious eye damage Eye Irrit. 2: H319 - Causes serious eye irritation Flam. Gas 1: H220 - Extremely flammable gas

Flam. Liq. 2: H225 - Highly flammable liquid and vapour

Press. Gas: H280 - Contains gas under pressure, may explode if heated Skin Corr. 1C: H314 - Causes severe skin burns and eye damage

Skin Irrit. 2: H315 - Causes skin irritation

STOT SE 3: H336 - May cause drowsiness or dizziness

Classification procedure:

Aerosol 1: Calculation method Skin Irrit. 2: Calculation method Eye Irrit. 2: Calculation method STOT SE 3: Calculation method Aquatic Chronic 3: Calculation method Aerosol 1: Calculation method

Advice related to training:

Minimal training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

http://echa.europa.eu http://eur-lex.europa.eu

Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road

IMDG: International maritime dangerous goods code IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation COD: Chemical Oxygen Demand

BOD5: 5-day biochemical oxygen demand

BCF: Bioconcentration factor LD50: Lethal Dose 50 LC50: Lethal Concentration 50 EC50: Effective concentration 50

Log-POW: Octanol–water partition coefficient Koc: Partition coefficient of organic carbon

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.