

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758 - GB



## OKS 2551

|         |                |                                 |             |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: -           | Print Date: |
| 1.0     | 07.03.2024     | Date of first issue: 07.03.2024 | 07.03.2024  |

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

### 1.1 Product identifier

Product name : OKS 2551

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

Use of the Substance/Mixture : Corrosion inhibitor

Recommended restrictions on use : Restricted to professional users.

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

Company : OKS Spezialschmierstoffe GmbH  
Ganghoferstr. 47  
D-82216 Maisach-Gernlinden  
Tel.: +49 8142 3051 500  
Fax.: +49 8142 3051 599  
info@oks-germany.com

E-mail address of person responsible for the SDS : mcm@oks-germany.com

National contact :

### 1.4 Emergency telephone number

Emergency telephone number : +49 8142 3051 517 (24/7 service)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)**

|  |   |
|--|---|
| Aerosols, Category 1   | H222: Extremely flammable aerosol.<br>H229: Pressurised container: May burst if heated. |
| Skin irritation, Category 2  | H315: Causes skin irritation.   |
| Eye irritation, Category 2   | H319: Causes serious eye irritation.  |
| Specific target organ toxicity - single exposure, Category 3, Central nervous system | H336: May cause drowsiness or dizziness.  |

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Long-term (chronic) aquatic hazard, Category 2

H411: Toxic to aquatic life with long lasting effects.

### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard pictograms :   

Signal word : 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.  
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Do not pierce or burn, even after use.  
P261 Avoid breathing mist.  
P273 Avoid release to the environment.

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

#### Hazardous components which must be listed on the label:

butanone

acetone

n-butyl acetate

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### Additional Labelling

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Active agent with propellant and solvent.  
Metal powder

#### Components

| Chemical name                           | CAS-No.<br>EC-No.<br><br>Index-No.<br>Registration number | Classification  | specific<br>concentration<br>limit<br>M-Factor<br>Notes<br>Acute toxicity<br>estimate | Concentration<br>(% w/w) |
|---|---|---|---|--------------------------|
| butanone                                | 78-93-3<br>201-159-0<br><br>606-002-00-3                  | Flam. Liq.2; H225<br>Eye Irrit.2; H319<br>STOT SE3; H336;<br>EUH066 |   | >= 20 - < 30             |
| zinc powder — zinc<br>dust (stabilised) | 7440-66-6<br>231-175-3<br><br>030-001-01-9                | Aquatic Acute1;<br>H400<br>Aquatic Chronic1;<br>H410                | M-Factor: 1/1   | >= 10 - < 20             |
| acetone                                 | 67-64-1<br>200-662-2<br><br>606-001-00-8                  | Flam. Liq.2; H225<br>Eye Irrit.2; H319<br>STOT SE3; H336            |   | >= 10 - < 20             |
| cyclopentanone                          | 120-92-3<br>204-435-9<br><br>606-025-00-9                 | Flam. Liq.3; H226<br>Skin Irrit.2; H315<br>Eye Irrit.2; H319        |   | >= 1 - < 10              |
| n-butyl acetate                         | 123-86-4<br>204-658-1                                     | Flam. Liq.3; H226<br>STOT SE3; H336;<br>EUH066                      |   | >= 1 - < 10              |

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|  |                                       |   |                    |              |
|--|---------------------------------------|---|--------------------|--------------|
|  | 607-025-00-1                          |   |                    |              |
| Substances with a workplace exposure limit : |                                       |   |                    |              |
| dimethyl ether                               | 115-10-6<br>204-065-8<br>603-019-00-8 | Flam. Gas1A;<br>H220<br>Press.<br>GasLiquefied gas;<br>H280 | Note U (table 3.1) | >= 30 - < 50 |

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- If inhaled : Call a physician or poison control centre immediately.  
Remove person to fresh air. If signs/symptoms continue, get medical attention.  
Keep patient warm and at rest.  
If unconscious, place in recovery position and seek medical advice.  
Keep respiratory tract clear.  
If breathing is irregular or stopped, administer artificial respiration.
- In case of skin contact : Take off all contaminated clothing immediately.  
Wash off immediately with soap and plenty of water.  
Get medical attention immediately if irritation develops and persists.  
Wash clothing before reuse.  
Thoroughly clean shoes before reuse.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes.  
Seek medical advice.
- If swallowed : Move the victim to fresh air.  
If accidentally swallowed obtain immediate medical attention.  
Keep respiratory tract clear.  
Do NOT induce vomiting.  
Rinse mouth with water.

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

- Symptoms : Inhalation may provoke the following symptoms:  
Unconsciousness  
Dizziness

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Risks : Drowsiness  
Headache  
Nausea  
Tiredness  
Skin contact may provoke the following symptoms:  
Erythema  
: Central nervous system depression  
Causes skin irritation.

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

Treatment : Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : ABC powder  
Unsuitable extinguishing media : High volume water jet

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

Specific hazards during firefighting : Fire Hazard  
Do not let product enter drains.  
Contains gas under pressure; may explode if heated.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.  
Hazardous combustion products : Carbon oxides  
Halogenated compounds  
Metal oxides

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment. Exposure to decomposition products may be a hazard to health.  
Further information : Standard procedure for chemical fires.  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Cool containers/tanks with water spray.

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### SECTION 6: Accidental release measures

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

Personal precautions : Evacuate personnel to safe areas.  
Ensure adequate ventilation.  
Remove all sources of ignition.  
Do not breathe vapours or spray mist.  
Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
Refer to protective measures listed in sections 7 and 8.  
Only qualified personnel equipped with suitable protective equipment may intervene.

#### 6.2 Environmental precautions

Environmental precautions : Do not allow contact with soil, surface or ground water.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

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

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).  
Keep in suitable, closed containers for disposal.  
Non-sparking tools should be used.

#### 6.4 Reference to other sections

For personal protection see section 8.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Advice on safe handling : Do not use in areas without adequate ventilation.  
Do not breathe vapours or spray mist.  
In case of insufficient ventilation, wear suitable respiratory equipment.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Keep away from fire, sparks and heated surfaces.  
Smoking, eating and drinking should be prohibited in the application area.  
Wash hands and face before breaks and immediately after handling the product.  
Do not get in eyes or mouth or on skin.  
Do not get on skin or clothing.  
Do not ingest.

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Do not use sparking tools.  
These safety instructions also apply to empty packaging which may still contain product residues.  
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

Hygiene measures : Wash face, hands and any exposed skin thoroughly after handling.

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

Requirements for storage areas and containers : BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects. Store in accordance with the particular national regulations.

### 7.3 Specific end use(s)

Specific use(s) : Specific instructions for handling, not required.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

| Components     | CAS-No.  | Value type (Form of exposure) | Control parameters                   | Basis                      |
|----------------|--|-------------------------------|--------------------------------------|----------------------------|
| dimethyl ether | 115-10-6   | TWA                           | 400 ppm<br>766 mg/m <sup>3</sup>     | GB EH40<br>(2005-04-06)    |
|                |  | STEL                          | 500 ppm<br>958 mg/m <sup>3</sup>     | GB EH40<br>(2005-04-06)    |
|                |  | TWA                           | 1,000 ppm<br>1,920 mg/m <sup>3</sup> | 2000/39/EC<br>(2000-06-16) |
|                | Further information: Indicative  |                               |                                      |                            |
| butanone       | 78-93-3  | TWA                           | 200 ppm<br>600 mg/m <sup>3</sup>     | GB EH40<br>(2005-04-06)    |
|                | Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. |                               |                                      |                            |
|                |  | STEL                          | 300 ppm<br>899 mg/m <sup>3</sup>     | GB EH40<br>(2005-04-06)    |
|                | Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. |                               |                                      |                            |
|                |  | TWA                           | 200 ppm<br>600 mg/m <sup>3</sup>     | 2000/39/EC<br>(2000-06-16) |

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| Further information: Indicative |          |      |                                      |                                  |
|---------------------------------|----------|------|--------------------------------------|----------------------------------|
|                                 |          | STEL | 300 ppm<br>900 mg/m <sup>3</sup>     | 2000/39/EC<br>(2000-06-16)       |
| Further information: Indicative |          |      |                                      |                                  |
| acetone                         | 67-64-1  | TWA  | 500 ppm<br>1,210 mg/m <sup>3</sup>   | GB EH40<br>(2005-04-06)          |
|                                 |          | STEL | 1,500 ppm<br>3,620 mg/m <sup>3</sup> | GB EH40<br>(2005-04-06)          |
|                                 |          | TWA  | 500 ppm<br>1,210 mg/m <sup>3</sup>   | 2000/39/EC<br>(2000-06-16)       |
| Further information: Indicative |          |      |                                      |                                  |
| n-butyl acetate                 | 123-86-4 | TWA  | 150 ppm<br>724 mg/m <sup>3</sup>     | GB EH40<br>(2005-04-06)          |
|                                 |          | STEL | 200 ppm<br>966 mg/m <sup>3</sup>     | GB EH40<br>(2005-04-06)          |
|                                 |          | STEL | 150 ppm<br>723 mg/m <sup>3</sup>     | 2019/1831/E<br>U<br>(2019-10-31) |
| Further information: Indicative |          |      |                                      |                                  |
|                                 |          | TWA  | 50 ppm<br>241 mg/m <sup>3</sup>      | 2019/1831/E<br>U<br>(2019-10-31) |
| Further information: Indicative |          |      |                                      |                                  |

### Biological occupational exposure limits

| Substance name | CAS-No. | Control parameters                               | Sampling time | Basis                          |
|----------------|---------|--|---------------|--------------------------------|
| butanone       | 78-93-3 | butan-2-one: 70<br>micromol per litre<br>(Urine) | After shift   | GB EH40<br>BAT<br>(2011-12-18) |

### Derived No Effect Level (DNEL):

| Substance name                       | End Use | Exposure routes | Potential health effects   | Value                  |
|--------------------------------------|---------|-----------------|----------------------------|------------------------|
| dimethyl ether                       | Workers | Inhalation      | Long-term exposure         | 1894 mg/m <sup>3</sup> |
| butanone                             | Workers | Inhalation      | Long-term systemic effects | 600 mg/m <sup>3</sup>  |
|                                      | Workers | Skin contact    | Long-term systemic effects | 1161 mg/kg             |
| zinc powder — zinc dust (stabilised) | Workers | Inhalation      | Long-term systemic effects | 5 mg/m <sup>3</sup>    |
|                                      | Workers | Skin contact    | Long-term systemic effects | 83 mg/kg               |
| acetone                              | Workers | Inhalation      | Long-term systemic effects | 1210 mg/m <sup>3</sup> |
|                                      | Workers | Skin contact    | Long-term systemic effects | 186 mg/kg              |
| cyclopentanone                       | Workers | Inhalation      | Long-term systemic effects | 61 mg/m <sup>3</sup>   |
|                                      | Workers | Skin contact    | Long-term systemic         | 7 mg/kg                |



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|                 |         |            | effects                    |                       |
|-----------------|---------|------------|----------------------------|-----------------------|
| n-butyl acetate | Workers | Inhalation | Long-term systemic effects | 300 mg/m <sup>3</sup> |
|                 | Workers | Inhalation | Acute systemic effects     | 600 mg/m <sup>3</sup> |
|                 | Workers | Dermal     | Long-term local effects    | 11 mg/cm <sup>2</sup> |

### Predicted No Effect Concentration (PNEC):

| Substance name                                       | Environmental Compartment                            | Value        |
|--|--|--------------|
| dimethyl ether                                       | Fresh water  | 0.155 mg/l   |
|  | Marine water   | 0.016 mg/l   |
|  | Sewage treatment plant                               | 160 mg/l     |
|  | Fresh water sediment                                 | 0.681 mg/kg  |
|  | Marine sediment                                      | 0.069 mg/kg  |
|  | Soil   | 0.045 mg/kg  |
|  | zinc powder — zinc dust (stabilised)                 | Fresh water  |
| Fresh water sediment                                 |  | 235.6 mg/kg  |
| Marine water   |  | 0.0061 mg/l  |
| Marine sediment                                      |  | 121 mg/kg    |
| Microbiological Activity in Sewage Treatment Systems |  | 0.052 mg/l   |
| Soil   |  | 106.8 mg/kg  |
| acetone  | Fresh water  | 10.6 mg/l    |
|  | Marine water   | 1.06 mg/l    |
|  | Sewage treatment plant                               | 100 mg/l     |
|  | Fresh water sediment                                 | 30.4 mg/kg   |
|  | Marine sediment                                      | 3.04 mg/kg   |
|  | Soil   | 29.5 mg/kg   |
| n-butyl acetate                                      | Fresh water  | 0.18 mg/l    |
|  | Marine water   | 0.018 mg/l   |
|  | Microbiological Activity in Sewage Treatment Systems | 35.6 mg/l    |
|  | Fresh water sediment                                 | 0.981 mg/kg  |
|  | Marine sediment                                      | 0.0981 mg/kg |
|  | Soil   | 0.09 mg/kg   |

## 8.2 Exposure controls

### Engineering measures

Use only in an area equipped with explosion proof exhaust ventilation.  
Handle only in a place equipped with local exhaust (or other appropriate exhaust).

### Personal protective equipment

Eye/face protection : Safety glasses with side-shields

#### Hand protection

Material : butyl-rubber  
Break through time : > 10 min  
Protective index : Class 1

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- Remarks : Wear protective gloves. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case.
- Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.
- Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.
- Filter type : Filter type A-P
- Protective measures : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- Appearance : aerosol
- Colour : grey
- Odour : characteristic
- Odour Threshold : No data available
- pH : Not applicable  
substance/mixture is non-soluble (in water)
- Melting point/range : No data available
- Boiling point/boiling range : No data available
- Flash point : -42 °C  
Method: Abel-Pensky
- Evaporation rate : No data available
- Flammability (solid, gas) : Extremely flammable aerosol.

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Upper explosion limit / Upper flammability limit : 26.2 %(V)

Lower explosion limit / Lower flammability limit : 1 %(V)

Vapour pressure : 3,700 hPa (20 °C)

Relative vapour density : No data available

Density : 0.92 g/cm<sup>3</sup> (20 °C)

Bulk density : No data available

Solubility(ies)

Water solubility : insoluble

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : < 20.5 mm<sup>2</sup>/s (40 °C)

Explosive properties : Not explosive

Oxidizing properties : No data available

### 9.2 Other information

Sublimation point : No data available

Self-ignition : No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No hazards to be specially mentioned.

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### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.  
Strong sunlight for prolonged periods.  
Risk of receptacle bursting.

### 10.5 Incompatible materials

Materials to avoid : Oxidizing agents

### 10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Product:

Acute oral toxicity : Remarks: Effects due to ingestion may include:  
Symptoms: Central nervous system depression

Acute inhalation toxicity : Remarks: Respiration of solvent vapour may cause dizziness.  
Harmful by inhalation.  
Symptoms: Inhalation may provoke the following symptoms:;  
Respiratory disorder, Dizziness, Drowsiness, Vomiting,  
Fatigue, Vertigo, Central nervous system depression

Acute dermal toxicity : Symptoms: Redness, Local irritation

##### Components:

##### **butanone:**

Acute oral toxicity : LD50 (Rat): 2,193 mg/kg  
Method: OECD Test Guideline 423  
GLP: yes

Acute inhalation toxicity : LC50 (Rat): 34 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

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Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg  
Method: OECD Test Guideline 402

### **zinc powder — zinc dust (stabilised):**

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes  
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : LC50 (Rat): > 5.41 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
GLP: yes  
Assessment: The substance or mixture has no acute inhalation toxicity

### **acetone:**

Acute oral toxicity : LD50 Oral (Rat): 5,800 mg/kg

### **cyclopentanone:**

Acute oral toxicity : LD50 Oral (Rat): > 2,000 mg/kg

### **n-butyl acetate:**

Acute oral toxicity : LD50 (Rat): 10,768 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 21 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403  
GLP: yes  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): > 17,600 mg/kg

### **dimethyl ether:**

Acute inhalation toxicity : LC50 (Rat): 309 mg/l  
Exposure time: 4 h  
Test atmosphere: gas

### **Skin corrosion/irritation**

#### **Product:**

Result : Skin irritation

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Remarks : Irritating to skin.

### Components:

#### **butanone:**

Species : Rabbit  
Assessment : No skin irritation  
Method : OECD Test Guideline 404  
Result : No skin irritation

Result : Repeated exposure may cause skin dryness or cracking.

#### **zinc powder — zinc dust (stabilised):**

Species : Rabbit  
Assessment : No skin irritation  
Result : No skin irritation

#### **cyclopentanone:**

Species : Rabbit  
Result : Skin irritation

#### **n-butyl acetate:**

Species : Rabbit  
Assessment : No skin irritation  
Method : OECD Test Guideline 404  
Result : Repeated exposure may cause skin dryness or cracking.

#### **dimethyl ether:**

Assessment : No skin irritation  
Result : No skin irritation

### **Serious eye damage/eye irritation**

#### Product:

Remarks : Irritating to eyes.

### Components:

#### **butanone:**

Species : Rabbit  
Assessment : Irritating to eyes.  
Method : OECD Test Guideline 405  
Result : Irritating to eyes.

#### **zinc powder — zinc dust (stabilised):**

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Species : Rabbit  
Exposure time : 24 h  
Assessment : No eye irritation  
Method : OECD Test Guideline 405  
Result : No eye irritation  
GLP : yes

### acetone:

Species : Rabbit  
Result : Eye irritation

### cyclopentanone:

Species : Rabbit  
Result : Eye irritation

### n-butyl acetate:

Species : Rabbit  
Assessment : No eye irritation  
Method : OECD Test Guideline 405  
Result : No eye irritation  
GLP : yes

### dimethyl ether:

Assessment : No eye irritation  
Result : No eye irritation

## Respiratory or skin sensitisation

### Product:

Remarks : This information is not available.

### Components:

#### butanone:

Test Type : Buehler Test  
Species : Guinea pig  
Assessment : Does not cause skin sensitisation.  
Method : OECD Test Guideline 406  
Result : Does not cause skin sensitisation.  
GLP : yes

#### zinc powder — zinc dust (stabilised):

Species : Guinea pig  
Assessment : Did not cause sensitisation on laboratory animals.  
Method : OECD Test Guideline 406

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Result : Did not cause sensitisation on laboratory animals.  
GLP : yes

### **n-butyl acetate:**

Test Type : Maximisation Test  
Exposure routes : Dermal  
Species : Guinea pig  
Assessment : Does not cause skin sensitisation.  
Method : OECD Test Guideline 406  
Result : Does not cause skin sensitisation.

### **dimethyl ether:**

Assessment : Does not cause skin sensitisation.  
Result : Does not cause skin sensitisation.

### **Germ cell mutagenicity**

#### **Product:**

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

#### **Components:**

##### **butanone:**

Germ cell mutagenicity-  
Assessment : Tests on bacterial or mammalian cell cultures did not show  
mutagenic effects.

##### **zinc powder — zinc dust (stabilised):**

Germ cell mutagenicity-  
Assessment : Tests on bacterial or mammalian cell cultures did not show  
mutagenic effects.

##### **n-butyl acetate:**

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Method: OECD Test Guideline 471  
Result: negative

Test Type: Chromosome aberration test in vitro  
Test system: Chinese hamster cells  
Method: OECD Test Guideline 473  
Result: negative

Genotoxicity in vivo : Species: Mouse  
Application Route: Oral  
Method: OECD Test Guideline 474



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Result: negative

Germ cell mutagenicity-  
Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects., Animal testing did not show any mutagenic effects.

### dimethyl ether:

Genotoxicity in vitro : Test Type: Ames test  
Method: OECD Test Guideline 471  
Result: negative

Genotoxicity in vivo : Species: Drosophila melanogaster (vinegar fly)  
Application Route: inhalation (gas)  
Method: OECD Test Guideline 477  
Result: negative

### Carcinogenicity

#### Product:

Remarks : No data available

#### Components:

##### butanone:

Carcinogenicity -  
Assessment : Not classifiable as a human carcinogen.

##### zinc powder — zinc dust (stabilised):

Carcinogenicity -  
Assessment : No evidence of carcinogenicity in animal studies.

##### n-butyl acetate:

Carcinogenicity -  
Assessment : Not classifiable as a human carcinogen.

##### dimethyl ether:

Species : Rat  
Application Route : inhalation (gas)  
Exposure time : 2 Years  
: 47 mg/l  
Method : OECD Test Guideline 453  
Result : negative

### Reproductive toxicity

#### Product:

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Effects on fertility : Remarks: No data available

Effects on foetal development : Remarks: No data available

### Components:

#### **butanone:**

Reproductive toxicity - Assessment : - Fertility -  
No toxicity to reproduction  
- Teratogenicity -  
No effects on or via lactation

#### **zinc powder — zinc dust (stabilised):**

Reproductive toxicity - Assessment : - Fertility -  
No toxicity to reproduction  
- Teratogenicity -  
No effects on or via lactation

#### **n-butyl acetate:**

Effects on fertility : Test Type: Two-generation study  
Species: Rat  
Application Route: inhalation (vapour)  
General Toxicity - Parent: NOAEC: 750 mg/l  
General Toxicity F1: NOAEC: 750 mg/l  
General Toxicity F2: NOAEC: 750 mg/l  
Method: OECD Test Guideline 416  
Result: Embryotoxic effects and adverse effects on the offspring were detected.

Reproductive toxicity - Assessment : - Fertility -  
No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.  
- Teratogenicity -  
No toxicity to reproduction

#### **dimethyl ether:**

Reproductive toxicity - Assessment : - Fertility -  
Animal testing did not show any effects on fertility.

### **STOT - single exposure**

#### Product:

Remarks : No data available

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### Components:

#### **butanone:**

Exposure routes : Inhalation  
Target Organs : Respiratory system  
Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects., May cause drowsiness or dizziness.

#### **acetone:**

Exposure routes : Inhalation  
Assessment : May cause drowsiness or dizziness.

#### **n-butyl acetate:**

Exposure routes : Inhalation  
Target Organs : Central nervous system  
Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

### **STOT - repeated exposure**

#### Product:

Remarks : No data available

### Components:

#### **butanone:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

#### **n-butyl acetate:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

### **Repeated dose toxicity**

#### Product:

Remarks : This information is not available.

### Components:

#### n-butyl acetate:

Species : Rat  
NOAEL : 125 mg/kg  
Application Route : Oral

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### Aspiration toxicity

#### Product:

This information is not available.

#### Components:

##### **butanone:**

No aspiration toxicity classification

##### **zinc powder — zinc dust (stabilised):**

No aspiration toxicity classification

##### **n-butyl acetate:**

No aspiration toxicity classification

##### **dimethyl ether:**

No aspiration toxicity classification

### Further information

#### Product:

Remarks : Risks of irreversible effects after a single exposure.  
Ingestion causes irritation of upper respiratory system and gastrointestinal disturbance.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

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

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

Toxicity to algae/aquatic plants : Remarks: No data available

Toxicity to microorganisms : Remarks: No data available

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### 12.2 Persistence and degradability

**Product:**

Biodegradability : Remarks: No data available

Physico-chemical removability : Remarks: No data available

### 12.3 Bioaccumulative potential

**Product:**

Bioaccumulation : Remarks: This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT). This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

### 12.4 Mobility in soil

**Product:**

Mobility : Remarks: No data available

Distribution among environmental compartments : Remarks: No data available

### 12.5 Results of PBT and vPvB assessment

**Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Other adverse effects

**Product:**

Endocrine disrupting potential : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Additional ecological information : Toxic to aquatic life with long lasting effects.

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### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

- Product : Do not dispose of with domestic refuse.  
Dispose of as hazardous waste in compliance with local and national regulations.
- Waste codes should be assigned by the user based on the application for which the product was used.
- Contaminated packaging : Packaging that is not properly emptied must be disposed of as the unused product.  
Offer empty spray cans to an established disposal company.  
Pressurized container: Do not pierce or burn, even after use.
- The following Waste Codes are only suggestions:
- Waste Code : unused product, packagings not completely emptied  
16 05 04\*\*, gases in pressure containers (including halons)  
containing hazardous substances

### SECTION 14: Transport information

#### 14.1 UN number or ID number

- ADR : UN 1950  
RID : UN 1950  
IMDG : UN 1950  
IATA : UN 1950

#### 14.2 UN proper shipping name

- ADR : AEROSOLS  
RID : AEROSOLS  
IMDG : AEROSOLS  
(zinc powder - zinc dust (stabilized))  
IATA : Aerosols, flammable

#### 14.3 Transport hazard class(es)

- ADR : 2  
RID : 2  
IMDG : 2.1  
IATA : 2.1

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### 14.4 Packing group

#### ADR

Packing group : Not assigned by regulation  
Classification Code : 5F  
Labels : 2.1  
Tunnel restriction code : (D)

#### RID

Packing group : Not assigned by regulation  
Classification Code : 5F  
Hazard Identification Number : 23  
Labels : 2.1

#### IMDG

Packing group : Not assigned by regulation  
Labels : 2.1  
EmS Code : F-D, S-U

#### IATA (Cargo)

Packing instruction (cargo aircraft) : 203  
Packing instruction (LQ) : Y203  
Packing group : Not assigned by regulation  
Labels : Flammable Gas

#### IATA (Passenger)

Packing instruction (passenger aircraft) : 203  
Packing instruction (LQ) : Y203  
Packing group : Not assigned by regulation  
Labels : Flammable Gas

### 14.5 Environmental hazards

#### ADR

Environmentally hazardous : yes

#### RID

Environmentally hazardous : yes

#### IMDG

Marine pollutant : yes

### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

### 14.7 Maritime transport in bulk according to IMO instruments

Remarks : Not applicable for product as supplied.

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### SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

- UK REACH List of restrictions (Annex 17) : Not applicable
- UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation (UK SVHC) : This product does not contain substances of very high concern (UK: The REACH etc. (Amendment) Regulations, Article 57).
- The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain) (GB POPs) : Not applicable
- Regulation (EC) No 1005/2009 on substances that deplete the ozone layer (EC 1005/2009) : Not applicable
- UK REACH List of substances subject to authorisation (Annex XIV) (UK. REACH Annex XIV) : Not applicable
- GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation (GB PIC) : Not applicable
- Regulation (EU) 2019/1148 on the marketing and use of explosives precursors : Listed
- This product is regulated by Regulation (EU) 2019/1148: acetone (ANNEX II) all suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.
- Control of Major Accident Hazards Regulations 2015 (COMAH) P3a FLAMMABLE AEROSOLS  
E2 ENVIRONMENTAL HAZARDS

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial



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emissions (integrated pollution prevention and control)  
Volatile organic compounds (VOC) content: 76.96 %

### Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to new and expectant mothers at work contained in Regulation 16 to 18) and of the Pregnant Workers Directive 92/85/EEC.

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

### 15.2 Chemical safety assessment

This information is not available.

## SECTION 16: Other information

### Full text of R-Phrases

Note U (table 3.1) : When put on the market gases have to be classified as "Gases under pressure", in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case. The following codes are assigned: Press. Gas (Comp.) Press. Gas (Liq.) Press. Gas (Ref. Liq.) Press. Gas (Diss.) Aerosols shall not be classified as gases under pressure (See Annex I, Part 2, Section 2.3.2.1, Note 2).

### Full text of H-Statements

EUH066 : Repeated exposure may cause skin dryness or cracking.  
H220 : Extremely flammable gas.  
H225 : Highly flammable liquid and vapour.  
H226 : Flammable liquid and vapour.  
H280 : Contains gas under pressure; may explode if heated.  
H315 : Causes skin irritation.  
H319 : Causes serious eye irritation.  
H336 : May cause drowsiness or dizziness.  
H400 : Very toxic to aquatic life.  
H410 : Very toxic to aquatic life with long lasting effects.

### Full text of other abbreviations

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- Note U (table 3.1) : When put on the market gases have to be classified as “Gases under pressure”, in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case. The following codes are assigned: Press. Gas (Comp.) Press. Gas (Liq.) Press. Gas (Ref. Liq.) Press. Gas (Diss.) Aerosols shall not be classified as gases under pressure (See Annex I, Part 2, Section 2.3.2.1, Note 2).
- 2000/39/EC : Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
- 2019/1831/EU : Europe. Commission Directive 2019/1831/EU establishing a fifth list of indicative occupational exposure limit values
- GB EH40 : UK. EH40 WEL - Workplace Exposure Limits
- GB EH40 BAT : UK. Biological monitoring guidance values
- 2000/39/EC / TWA : Limit Value - eight hours
- 2000/39/EC / STEL : Short term exposure limit
- 2019/1831/EU / TWA : Limit Value - eight hours
- 2019/1831/EU / STEL : Short term exposure limit
- GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)
- GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECl - Thailand Existing Chemicals

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Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

### Classification of the mixture:

|                   |            |
|-------------------|------------|
| Aerosol 1         | H222, H229 |
| Skin Irrit. 2     | H315       |
| Eye Irrit. 2      | H319       |
| STOT SE 3         | H336       |
| Aquatic Chronic 2 | H411       |

### Classification procedure:

|                                     |
|-------------------------------------|
| Based on product data or assessment |
| Based on product data or assessment |
| Calculation method                  |
| Calculation method                  |
| Calculation method                  |

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