# HG 4-in-1 protector for textiles | HG 4-in-1 protector for textiles and leather

Safety Data Sheet

According to REACH Regulation (EC) No 1907/2006, as retained and amended in UK law, and based on EU 2020/878.
Issue date: 31/05/2024 Version: 1.0

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

### 1.1. Product identifier

| | | |
|---|---|---|
| Product form | : | Mixture |
| Product name | : | HG 4-in-1 protector for textiles \| HG 4-in-1 protector for textiles and leather |
| Product code | : | 175 ART |
| Type of product | : | Detergent |
| Vaporizer | : | Aerosol |
| Product group | : | Trade product |

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

#### 1.2.1. Relevant identified uses

Intended for general public

| | | |
|---|---|---|
| Main use category | : | Consumer use |
| Function or use category | : | Impregnation products for finished textiles and leather goods |

#### 1.2.2. Uses advised against

| | | |
|---|---|---|
| Restrictions on use | : | All other uses not recommended above |

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

**Manufacturer**
HG International B.V.
P.J. Oudweg 41
NL– 1314 CJ Almere
The Netherlands
T +31 (0)36 54 94 700
safety@hg.eu - www.hg.eu

### 1.4. Emergency telephone number

| | | |
|---|---|---|
| Emergency number | : | +31 (0)36 54 94 777<br>Only for medical personnel<br>Mon-Fri 09:00 AM - 05:00 PM (CEST) |

| Country/Area | Organisation/Company | Address | Emergency number | Comment |
|---|---|---|---|---|
| United Kingdom | National Poisons Information Service (Birmingham Centre)<br>City Hospital | Dudley Road<br>B18 7QH | 0344 892 0111 | Only for healthcare professionals |
| United Kingdom | Guy's & St Thomas' Poisons Unit<br>Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust | Avonley Road<br>SE14 5ER | +44 20 7188 7188 | |

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification according to GB CLP (SI 2019:720 as amended)**

| | |
|---|---|
| Aerosol, Category 1 | H222;H229 |
| Skin corrosion/irritation, Category 2 | H315 |
| Serious eye damage/eye irritation, Category 2 | H319 |
| Specific target organ toxicity – Single exposure, Category 3, Narcosis | H336 |
| Aspiration hazard, Category 1 | H304 |
| Hazardous to the aquatic environment – Acute Hazard, Category 1 | H400 |
| Hazardous to the aquatic environment – Chronic Hazard, Category 1 | H410 |

Full text of H- and EUH-statements: see section 16

### Adverse physicochemical, human health and environmental effects

Pressurised container: May burst if heated. Extremely flammable aerosol. May cause drowsiness or dizziness. Causes skin irritation. Causes serious eye irritation. May be fatal if swallowed and enters airways. Toxic to aquatic life with long lasting effects.

## 2.2. Label elements

### Labelling according to GB CLP (SI 2019:720 as amended)

Hazard pictograms (GB CLP) :

GHS02 GHS07 GHS08 GHS09

Signal word (GB CLP) : Danger

Contains : n-butyl acetate; propan-2-ol; isopropyl alcohol; isopropanol; cyclohexane; isopropyl acetate

Hazard statements (GB CLP) : H222 - Extremely flammable aerosol.
H229 - Pressurised container: May burst if heated.
H304 - May be fatal if swallowed and enters airways.
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H336 - May cause drowsiness or dizziness.
H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (GB CLP) : 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.
P261 - Avoid breathing spray.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear eye protection, protective gloves.
P312 - Call a POISON CENTER, doctor if you feel unwell.
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 122 °F, 50 °C.
P501 - Dispose of contents and container to an approved waste disposal plant.

Child-resistant fastening : Not applicable

Tactile warning : Not applicable

## 2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with UK REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of UK REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in GB BPR and GB PPP at a concentration equal to or greater than 0,1 %

# SECTION 3: Composition/information on ingredients

## 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name | Product identifier | % | Labelling according to GB CLP (SI 2019:720 as amended) |
|---|---|---|---|
| butane<br>(Propellant gas (Aerosol))<br>(Note C)(Note U) | CAS-No.: 106-97-8<br>EC-No.: 203-448-7<br>UK Index-No.: 601-004-00-0<br>REACH-no: 01-2119474691-32 | ≥ 15 – < 50 | Flam. Gas 1A, H220<br>Press. Gas |
| propan-2-ol; isopropyl alcohol; isopropanol | CAS-No.: 67-63-0<br>EC-No.: 200-661-7<br>UK Index-No.: 603-117-00-0<br>REACH-no: 01-2119457558-25 | ≥ 25 – < 50 | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336 |
| cyclohexane | CAS-No.: 110-82-7<br>EC-No.: 203-806-2<br>UK Index-No.: 601-017-00-1<br>REACH-no: 01-2119463273-41 | ≥ 15 – < 25 | Flam. Liq. 2, H225<br>Asp. Tox. 1, H304<br>Skin Irrit. 2, H315<br>STOT SE 3, H336<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |
| Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics | EC-No.: 918-167-1<br>REACH-no: 01-2119472146-39 | ≥ 5 – < 7 | Flam. Liq. 3, H226 |
| n-butyl acetate | CAS-No.: 123-86-4<br>EC-No.: 204-658-1<br>UK Index-No.: 607-025-00-1<br>REACH-no: 01-2119485493-29 | ≥ 2 – < 5 | Flam. Liq. 3, H226<br>STOT SE 3, H336<br>EUH066 |
| isopropyl acetate<br>(Note C) | CAS-No.: 108-21-4<br>EC-No.: 203-561-1<br>UK Index-No.: 607-024-00-6<br>REACH-no: 01-2119537214-46 | ≥ 0.1 – < 2 | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336<br>EUH066 |

Note C: 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.

Note U: 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).

Product subject to CLP Article 1.1.3.7. The disclosure rules of the components is modified in this case.

Full text of H- and EUH-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Call a physician immediately.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Do not induce vomiting. Call a physician immediately.

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

Symptoms/effects : May cause drowsiness or dizziness.
Symptoms/effects after inhalation : Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.
Symptoms/effects after skin contact : Irritation.
Symptoms/effects after eye contact : Eye irritation.
Symptoms/effects after ingestion : Risk of lung oedema.

### 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 : Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media : Do not use a heavy water stream.

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

Fire hazard : Extremely flammable aerosol.
Explosion hazard : Pressurised container: May burst if heated.

### 5.3. Advice for firefighters

Precautionary measures fire : Runoff could create fire or explosion hazard.
Firefighting instructions : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

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

General measures : Do not handle until all safety precautions have been read and understood. Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.

#### 6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.
Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

### 6.2. Environmental precautions

No additional information available

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

Methods for cleaning up : Mechanically recover the product.
Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

| | | |
|---|---|---|
| Additional hazards when processed | : | Not expected to present a significant hazard under anticipated conditions of normal use. |
| Precautions for safe handling | : | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. Wear personal protective equipment. |
| Hygiene measures | : | Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. |

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

| | | |
|---|---|---|
| Technical measures | : | Keep in a cool, well-ventilated place away from heat. |
| Storage conditions | : | Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store locked up. Store in a well-ventilated place. Keep container tightly closed. |
| Storage temperature | : | > 0 – < 30 °C |
| Heat and ignition sources | : | Keep away from heat and direct sunlight. No flames. Eliminate all sources of ignition. |
| Special rules on packaging | : | Keep only in original container. Opened containers must be carefully closed and kept upright to avoid leakage. |
| Packaging materials | : | Store always product in container of same material as original container. |

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

| n-butyl acetate (123-86-4) | |
|---|---|
| **United Kingdom - Occupational Exposure Limits** | |
| Local name | Butyl acetate |
| WEL TWA (OEL TWA) | 724 mg/m³ |
| | 150 ppm |
| WEL STEL (OEL STEL) | 966 mg/m³ |
| | 200 ppm |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE |

| propan-2-ol; isopropyl alcohol; isopropanol (67-63-0) | |
|---|---|
| **United Kingdom - Occupational Exposure Limits** | |
| Local name | Propan-2-ol |
| WEL TWA (OEL TWA) | 999 mg/m³ |
| | 400 ppm |
| WEL STEL (OEL STEL) | 1250 mg/m³ |
| | 500 ppm |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE |

| cyclohexane (110-82-7) | |
|---|---|
| **United Kingdom - Occupational Exposure Limits** | |
| Local name | Cyclohexane |
| WEL TWA (OEL TWA) | 350 mg/m³ |
| | 100 ppm |
| WEL STEL (OEL STEL) | 1050 mg/m³ |
| | 300 ppm |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE |

| isopropyl acetate (108-21-4) | |
|---|---|
| **United Kingdom - Occupational Exposure Limits** | |
| Local name | Isopropyl acetate |
| WEL STEL (OEL STEL) | 849 mg/m³ |
| | 200 ppm |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE |

| butane (106-97-8) | |
|---|---|
| **United Kingdom - Occupational Exposure Limits** | |
| Local name | Butane |
| WEL TWA (OEL TWA) | 1450 mg/m³ |
| | 600 ppm |
| WEL STEL (OEL STEL) | 1810 mg/m³ |
| | 750 ppm |
| Remark | Carc (Capable of causing cancer and/or heritable genetic damage, only applies if Butane contains more than 0.1% of buta-1,3-diene) |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE |

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

**Appropriate engineering controls:**
Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

**Personal protective equipment - Report preview:**
Safety glasses. Gloves. Protective clothing. Wear foot protection.

**Personal protective equipment symbol(s):**

### 8.2.2.1. Eye and face protection

**Eye protection - Report preview:**
Safety glasses

| Eye protection | | | |
|---|---|---|---|
| **Type** | **Field of application** | **Characteristics** | **Standard** |
| Safety glasses with side shields | | | EN 166 |

### 8.2.2.2. Skin protection

**Skin and body protection - Report preview:**
Wear suitable protective clothing

| Skin and body protection | |
|---|---|
| **Type** | **Standard** |
| Long sleeved protective clothing | |
| Chemical resistant safety shoes | EN ISO 20345 |

**Hand protection - Report preview:**
Protective gloves

| Hand protection | | | | | |
|---|---|---|---|---|---|
| **Type** | **Material** | **Permeation** | **Thickness (mm)** | **Penetration** | **Standard** |
| Disposable gloves | Butyl rubber | 6 (> 480 minutes) | 0.5 | | EN ISO 374 |
| Disposable gloves | Nitrile rubber (NBR) | 6 (> 480 minutes) | 0.35 | | EN ISO 374 |

### 8.2.2.3. Respiratory protection

**Respiratory protection - Report preview:**
No respiratory protection needed under normal use conditions. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

| Respiratory protection | | | |
|---|---|---|---|
| **Device** | **Filter type** | **Condition** | **Standard** |
| Half-mask | FFA2P3 | Mist formation, Vapour protection | EN 405 |

### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

**Environmental exposure controls:**
Avoid release to the environment.

**Other information:**
Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

## SECTION 9: Physical and chemical properties

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

| | | |
|---|---|---|
| Physical state | : | Liquid |
| Colour | : | Colourless. |
| Odour | : | Not available |
| Odour threshold | : | Not available |
| Melting point | : | Not applicable |
| Freezing point | : | Not available |
| Boiling point | : | Not available |
| Flammability | : | Extremely flammable aerosol. |
| Explosive properties | : | Pressurised container: May burst if heated. |
| Explosive limits | : | Not available |
| Flash point | : | < 0 °C (Open cup) |
| Auto-ignition temperature | : | Not available |
| Decomposition temperature | : | Not available |
| pH | : | Not available |
| Viscosity, kinematic | : | Not available |
| Solubility | : | Not available |
| Partition coefficient n-octanol/water (Log Kow) | : | Not available |
| Vapour pressure | : | Not available |
| Vapour pressure at 50°C | : | Not available |
| Density | : | 0.78 – 0.79 g/ml |
| Relative density | : | Not available |
| Relative vapour density at 20°C | : | Not available |
| Particle characteristics | : | Not applicable |

| n-butyl acetate (123-86-4) | |
|---|---|
| Boiling point | 126.2 °C Atm. press.: 1013 hPa |
| Flash point | 27 °C Atm. press.: 1013 hPa |
| Auto-ignition temperature | 24 °C |
| Vapour pressure | 20 hPa Temp.: 25 °C Remarks on result: 'other:' |

| propan-2-ol; isopropyl alcohol; isopropanol (67-63-0) | |
|---|---|
| Boiling point | 82 °C |
| Flash point | 12 °C Remarks on result: 'other:' |
| Auto-ignition temperature | 12 °C |
| Vapour pressure | 4400 Pa 25°C |

| cyclohexane (110-82-7) | |
|---|---|
| Boiling point | 81 °C |
| Flash point | -20 °C Atm. press.: 1013,5 hPa |
| Auto-ignition temperature | -20 °C |
| Vapour pressure | 10400 Pa 25°C |

| Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics | |
|---|---|
| Boiling point | 179 – 191 °C Atm. press.: 1 atm Decomposition: 'no' |
| Flash point | 59 °C Atm. press.: 1 atm |
| Vapour pressure | 0.07 kPa Temp.: 20 °C |

| isopropyl acetate (108-21-4) | |
|---|---|
| Boiling point | 88.6 °C Atm. press.: 760 mm Hg Decomposition: 'no' |
| Flash point | 5 °C Atm. press.: 1 atm |

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

% of flammable ingredients : 107.898 %

#### 9.2.2. Other safety characteristics

Heat of reaction : 28920 J/g Combustion

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Extremely flammable aerosol. Pressurised container: May burst if heated.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified (Conclusive but not sufficient for classification)
Acute toxicity (dermal) : Not classified (Conclusive but not sufficient for classification)
Acute toxicity (inhalation) : Not classified (Conclusive but not sufficient for classification)

| n-butyl acetate (123-86-4) | |
|---|---|
| LD50 oral rat | 3200 ml/kg Source: ECHA |
| LD50 oral | 10700 mg/kg bodyweight |
| LD50 dermal rabbit | > 17600 mg/kg Source: ECHA |
| LD50 dermal | > 14100 mg/kg bodyweight |
| LC50 Inhalation - Rat (Dust/Mist) | > 21100 mg/l |
| LC50 Inhalation - Rat (Vapours) | 1802 mg/l Source: ECHA |
| ATE GB CLP (oral) | 10700 mg/kg bodyweight |
| ATE GB CLP (vapours) | 1802 mg/l/4h |

| propan-2-ol; isopropyl alcohol; isopropanol (67-63-0) | |
|---|---|
| LD50 oral rat | 5840 mg/kg Source: ECHA |
| LD50 oral | 4396 mg/kg bodyweight |
| LD50 dermal rabbit | 12800 mg/kg Source: ECHA |
| LC50 Inhalation - Rat (Dust/Mist) | 46600 mg/l |
| ATE GB CLP (oral) | 4396 mg/kg bodyweight |
| ATE GB CLP (dermal) | 12800 mg/kg bodyweight |
| ATE GB CLP (dust, mist) | 46600 mg/l/4h |

| cyclohexane (110-82-7) | |
|---|---|
| LD50 oral rat | > 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Remarks on results: other: |
| LD50 dermal rabbit | > 2000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Remarks on results: other: |
| LC50 Inhalation - Rat | > 32.88 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Remarks on results: other: |

| Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics | |
|---|---|
| LD50 dermal rat | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |
| LD50 dermal rabbit | ≥ 3160 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |

| isopropyl acetate (108-21-4) | |
|---|---|
| LD50 oral rat | 6750 mg/kg bodyweight Animal: rat, Animal sex: male |
| ATE GB CLP (oral) | 6750 mg/kg bodyweight |

Skin corrosion/irritation : Causes skin irritation.

| n-butyl acetate (123-86-4) | |
|---|---|
| pH | 6.2 Temp.: 20 °C Concentration: 5,3 g/L |

Serious eye damage/irritation : Causes serious eye irritation.

| n-butyl acetate (123-86-4) | |
|---|---|
| pH | 6.2 Temp.: 20 °C Concentration: 5,3 g/L |

Respiratory or skin sensitisation : Not classified (Conclusive but not sufficient for classification)

Germ cell mutagenicity : Not classified (Conclusive but not sufficient for classification)

Carcinogenicity : Not classified (Conclusive but not sufficient for classification)

Reproductive toxicity : Not classified (Conclusive but not sufficient for classification)

STOT-single exposure : May cause drowsiness or dizziness.

| n-butyl acetate (123-86-4) | |
|---|---|
| STOT-single exposure | May cause drowsiness or dizziness. |

| propan-2-ol; isopropyl alcohol; isopropanol (67-63-0) | |
|---|---|
| STOT-single exposure | May cause drowsiness or dizziness. |

| cyclohexane (110-82-7) | |
|---|---|
| STOT-single exposure | May cause drowsiness or dizziness. |

| isopropyl acetate (108-21-4) | |
|---|---|
| STOT-single exposure | May cause drowsiness or dizziness. |

STOT-repeated exposure : Not classified (Conclusive but not sufficient for classification)

| n-butyl acetate (123-86-4) | |
|---|---|
| LOAEL (oral, rat, 90 days) | 500 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 798.2650 (90-Day Oral Toxicity in Rodents) |
| NOAEL (oral, rat, 90 days) | 125 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 798.2650 (90-Day Oral Toxicity in Rodents) |

| isopropyl acetate (108-21-4) | |
|---|---|
| LOAEC (inhalation, rat, vapour, 90 days) | 2.1409 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study), Guideline: EU Method B.29 (Sub-Chronic Inhalation Toxicity:90-Day Study) |

Aspiration hazard : May be fatal if swallowed and enters airways.

| HG 4-in-1 protector for textiles \| HG 4-in-1 protector for textiles and leather | |
|---|---|
| Vaporizer | Aerosol |

| n-butyl acetate (123-86-4) | |
|---|---|
| Viscosity, kinematic | 0.83 mm²/s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm²/s)' |

| propan-2-ol; isopropyl alcohol; isopropanol (67-63-0) | |
|---|---|
| Viscosity, kinematic | 2.658 mm²/s |

| Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics | |
|---|---|
| Viscosity, kinematic | 1.57 mm²/s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm²/s)' |

| butane (106-97-8) | |
|---|---|
| Vaporizer | Chemical under pressure |

### 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

#### 11.2.2. Other information

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Toxic to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short–term (acute) : Very toxic to aquatic life.

Hazardous to the aquatic environment, long–term (chronic) : Very toxic to aquatic life with long lasting effects.

| n-butyl acetate (123-86-4) | |
|---|---|
| LC50 - Fish [1] | 18 mg/l Test organisms (species): Pimephales promelas |

| n-butyl acetate (123-86-4) | |
|---|---|
| EC50 - Crustacea [1] | 44 mg/l Test organisms (species): Daphnia sp. |
| EC50 - Other aquatic organisms [1] | 32 mg/l Test organisms (species): Artemia salina |
| EC50 72h - Algae [1] | 397 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum) |
| EC50 72h - Algae [2] | 246 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum) |
| LOEC (chronic) | 47.6 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC (chronic) | 23.2 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| **propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)** | |
| LC50 - Fish [1] | 10000 mg/l Test organisms (species): Pimephales promelas |
| **cyclohexane (110-82-7)** | |
| LC50 - Fish [1] | 4.1 mg/l |
| EC50 - Crustacea [1] | 0.9 mg/l Test organisms (species): Daphnia magna |
| EC50 - Other aquatic organisms [1] | 2.2 mg/l waterflea |
| EC50 - Other aquatic organisms [2] | 1.8 mg/l |
| ErC50 algae | 9.317 mg/l Source: ECHA |
| **Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics** | |
| NOEC (chronic) | 0.011 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| **isopropyl acetate (108-21-4)** | |
| LC50 - Fish [1] | 400 mg/l Test organisms (species): Pimephales promelas |
| EC50 - Other aquatic organisms [1] | 110 mg/l Test organisms (species): Artemia salina |

## 12.2. Persistence and degradability

| HG 4-in-1 protector for textiles \| HG 4-in-1 protector for textiles and leather | |
|---|---|
| Persistence and degradability | Rapidly degradable |
| **n-butyl acetate (123-86-4)** | |
| Persistence and degradability | Rapidly degradable |
| **propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)** | |
| Persistence and degradability | Rapidly degradable |
| **cyclohexane (110-82-7)** | |
| Persistence and degradability | Rapidly degradable |
| **Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics** | |
| Persistence and degradability | Rapidly degradable |
| **isopropyl acetate (108-21-4)** | |
| Persistence and degradability | Rapidly degradable |
| **butane (106-97-8)** | |
| Persistence and degradability | Rapidly degradable |

### 12.3. Bioaccumulative potential

| n-butyl acetate (123-86-4) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 2.3 |

| propan-2-ol; isopropyl alcohol; isopropanol (67-63-0) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 0.05 |

| cyclohexane (110-82-7) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 3.4 |

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

Adverse effects on the environment caused by endocrine disrupting properties : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %.

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional waste regulation : Disposal must be done according to official regulations.

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Sewage disposal recommendations : Do not flush down sewers. Disposal must be done according to official regulations.

Product/Packaging disposal recommendations : Do not pierce or burn, even after use. Empty containers retain product residue and can be hazardous. Completely empty the packaging prior to decontamination. Do not burn empty packaging. Do not cut using a blowtorch. Disposal must be done according to official regulations.

Additional information : Do not re-use empty containers.

Ecological information : Avoid release to the environment.

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR | IMDG | IATA | ADN | RID |
|---|---|---|---|---|
| **14.1. UN number** | | | | |
| UN 1950 | UN 1950 | UN 1950 | UN 1950 | UN 1950 |
| **14.2. UN proper shipping name** | | | | |
| AEROSOLS (CONTAINS : cyclohexane ; Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics ; isopropyl acetate) | AEROSOLS (CONTAINS : cyclohexane ; Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics ; isopropyl acetate) | Aerosols, flammable (CONTAINS : cyclohexane ; Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics ; isopropyl acetate) | AEROSOLS (CONTAINS : cyclohexane ; Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics ; isopropyl acetate) | AEROSOLS (CONTAINS : cyclohexane ; Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics ; isopropyl acetate) |

| ADR | IMDG | IATA | ADN | RID |
|---|---|---|---|---|
| **Transport document description** | | | | |
| UN 1950 AEROSOLS (CONTAINS : cyclohexane ; Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics ; isopropyl acetate), 2.1, (D), ENVIRONMENTALLY HAZARDOUS | UN 1950 AEROSOLS (CONTAINS : cyclohexane ; Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics ; isopropyl acetate), 2.1, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS | UN 1950 Aerosols, flammable (CONTAINS : cyclohexane ; Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics ; isopropyl acetate), 2.1, ENVIRONMENTALLY HAZARDOUS | UN 1950 AEROSOLS (CONTAINS : cyclohexane ; Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics ; isopropyl acetate), 2.1, ENVIRONMENTALLY HAZARDOUS | UN 1950 AEROSOLS (CONTAINS : cyclohexane ; Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics ; isopropyl acetate), 2.1, ENVIRONMENTALLY HAZARDOUS |
| **14.3. Transport hazard class(es)** | | | | |
| 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
|  |  |  |  |  |
| **14.4. Packing group** | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| **14.5. Environmental hazards** | | | | |
| Dangerous for the environment: Dangerous for the environment | Dangerous for the environment: Dangerous for the environment<br>Marine pollutant: Yes | Dangerous for the environment: Dangerous for the environment | Dangerous for the environment: Dangerous for the environment | Dangerous for the environment: Dangerous for the environment |
| No supplementary information available | | | | |

## 14.6. Special precautions for user

**Overland transport**

| | | |
|---|---|---|
| Classification code (ADR) | : | 5F |
| Special provisions (ADR) | : | 190, 327, 344, 625 |
| Limited quantities (ADR) | : | 1l |
| Excepted quantities (ADR) | : | E0 |
| Packing instructions (ADR) | : | P207, LP200 |
| Special packing provisions (ADR) | : | PP87, RR6, L2 |
| Mixed packing provisions (ADR) | : | MP9 |
| Transport category (ADR) | : | 2 |
| Special provisions for carriage - Packages (ADR) | : | V14 |
| Special provisions for carriage - Loading, unloading and handling (ADR) | : | CV9, CV12 |
| Special provisions for carriage - Operation (ADR) | : | S2 |
| Tunnel restriction code (ADR) | : | D |

**Transport by sea**

| | | |
|---|---|---|
| Special provisions (IMDG) | : | 63, 190, 277, 327, 344, 381, 959 |
| Limited quantities (IMDG) | : | SP277 |
| Excepted quantities (IMDG) | : | E0 |
| Packing instructions (IMDG) | : | P207, LP200 |
| Special packing provisions (IMDG) | : | PP87, L2 |
| EmS-No. (Fire) | : | F-D |
| EmS-No. (Spillage) | : | S-U |
| Stowage category (IMDG) | : | None |
| Stowage and handling (IMDG) | : | SW1, SW22 |
| Segregation (IMDG) | : | SG69 |

**Air transport**

| | | |
|---|---|---|
| PCA Excepted quantities (IATA) | : | E0 |
| PCA Limited quantities (IATA) | : | Y203 |
| PCA limited quantity max net quantity (IATA) | : | 30kgG |
| PCA packing instructions (IATA) | : | 203 |
| PCA max net quantity (IATA) | : | 75kg |
| CAO packing instructions (IATA) | : | 203 |
| CAO max net quantity (IATA) | : | 150kg |
| Special provisions (IATA) | : | A145, A167, A802 |
| ERG code (IATA) | : | 10L |

**Inland waterway transport**

| | | |
|---|---|---|
| Classification code (ADN) | : | 5F |
| Special provisions (ADN) | : | 190, 327, 344, 625 |
| Limited quantities (ADN) | : | 1 L |
| Excepted quantities (ADN) | : | E0 |
| Equipment required (ADN) | : | PP, EX, A |
| Ventilation (ADN) | : | VE01, VE04 |
| Number of blue cones/lights (ADN) | : | 1 |

**Rail transport**

| | | |
|---|---|---|
| Classification code (RID) | : | 5F |
| Special provisions (RID) | : | 190, 327, 344, 625 |
| Limited quantities (RID) | : | 1L |
| Excepted quantities (RID) | : | E0 |
| Packing instructions (RID) | : | P207, LP200 |
| Special packing provisions (RID) | : | PP87, RR6, L2 |
| Mixed packing provisions (RID) | : | MP9 |
| Transport category (RID) | : | 2 |
| Special provisions for carriage – Packages (RID) | : | W14 |
| Special provisions for carriage - Loading, unloading and handling (RID) | : | CW9, CW12 |
| Colis express (express parcels) (RID) | : | CE2 |
| Hazard identification number (RID) | : | 23 |

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

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

**REACH Annex XVII (Restriction List)**

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

**PIC Regulation (Prior Informed Consent)**

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

**POP Regulation (Persistent Organic Pollutants)**

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

**Ozone Regulation (1005/2009)**

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

**Dual-Use Regulation (428/2009)**

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

### Detergent Regulation (648/2004)

| Labelling of contents | |
|---|---|
| **Component** | **%** |
| aliphatic hydrocarbons | ≥15-<30% |

### Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

### 15.1.2. United Kingdom

### UK REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

### UK REACH Candidate List (SVHC)

Contains no substance(s) listed on the UK REACH Candidate List

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

**Indication of changes (UK):**
UFI : Unique Formula Identifier.

| Indication of changes (UK) | | | |
|---|---|---|---|
| **Section** | **Changed item** | **Change** | **Comments** |
| | Revision date | Added | |
| 3 - Composition/information on ingredients | Composition/information on ingredients | Modified | |

| Abbreviations and acronyms: | |
|---|---|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration factor |
| BLV | Biological limit value |
| BOD | Biochemical oxygen demand (BOD) |
| COD | Chemical oxygen demand (COD) |
| DMEL | Derived Minimal Effect level |
| DNEL | Derived-No Effect Level |
| EC-No. | European Community number |
| EC50 | Median effective concentration |
| EN | European Standard |

| Abbreviations and acronyms: | |
|---|---|
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |
| LOAEL | Lowest Observed Adverse Effect Level |
| NOAEC | No-Observed Adverse Effect Concentration |
| NOAEL | No-Observed Adverse Effect Level |
| NOEC | No-Observed Effect Concentration |
| OECD | Organisation for Economic Co-operation and Development |
| OEL | Occupational Exposure Limit |
| PBT | Persistent Bioaccumulative Toxic |
| PNEC | Predicted No-Effect Concentration |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS | Safety Data Sheet |
| STP | Sewage treatment plant |
| ThOD | Theoretical oxygen demand (ThOD) |
| TLM | Median Tolerance Limit |
| VOC | Volatile Organic Compounds |
| CAS-No. | Chemical Abstract Service number |
| N.O.S. | Not Otherwise Specified |
| vPvB | Very Persistent and Very Bioaccumulative |
| ED | Endocrine disrupting properties |

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging. Ensure personnel is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency.

Other information : DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

| Full text of H- and EUH-statements: | |
|---|---|
| Aerosol 1 | Aerosol, Category 1 |
| Aquatic Acute 1 | Hazardous to the aquatic environment – Acute Hazard, Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment – Chronic Hazard, Category 1 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment – Chronic Hazard, Category 2 |
| Asp. Tox. 1 | Aspiration hazard, Category 1 |

| Full text of H- and EUH-statements: | |
|---|---|
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Flam. Liq. 2 | Flammable liquids, Category 2 |
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| H222 | Extremely flammable aerosol. |
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H229 | Pressurised container: May burst if heated. |
| H304 | May be fatal if swallowed and enters airways. |
| 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. |
| H411 | Toxic to aquatic life with long lasting effects. |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| STOT SE 3 | Specific target organ toxicity – Single exposure, Category 3, Narcosis |

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.