



# 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 Revision date: 12/06/2024 Version: 2.0

### 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](mailto:safety@hg.eu) - [www.hg.eu](http://www.hg.eu)

#### 1.4. Emergency telephone number

Emergency number : +31 (0)36 54 94 777  
Only for medical personnel  
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) City Hospital	Dudley Road B18 7QH	0344 892 0111	Only for healthcare professionals
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road 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  
Hazardous to the aquatic environment – Chronic Hazard, Category 2 H411  
Full text of H- and EUH-statements: see section 16

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### 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. 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

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.

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 (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  $\geq 0.1\%$  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 (Propellant gas (Aerosol)) (Note C)(Note U)	CAS-No.: 106-97-8 EC-No.: 203-448-7 UK Index-No.: 601-004-00-0 REACH-no: 01-2119474691-32	$\geq 15 - < 50$	Flam. Gas 1A, H220 Press. Gas

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Name	Product identifier	%	Labelling according to GB CLP (SI 2019:720 as amended)
propan-2-ol; isopropyl alcohol; isopropanol	CAS-No.: 67-63-0 EC-No.: 200-661-7 UK Index-No.: 603-117-00-0 REACH-no: 01-2119457558-25	≥ 25 – < 50	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
cyclohexane	CAS-No.: 110-82-7 EC-No.: 203-806-2 UK Index-No.: 601-017-00-1 REACH-no: 01-2119463273-41	≥ 15 – < 25	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics	EC-No.: 918-167-1 REACH-no: 01-2119472146-39	≥ 5 – < 7	Flam. Liq. 3, H226
n-butyl acetate	CAS-No.: 123-86-4 EC-No.: 204-658-1 UK Index-No.: 607-025-00-1 REACH-no: 01-2119485493-29	≥ 2 – < 5	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066
isopropyl acetate (Note C)	CAS-No.: 108-21-4 EC-No.: 203-561-1 UK Index-No.: 607-024-00-6 REACH-no: 01-2119537214-46	≥ 0.1 – < 2	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 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 poison center or a doctor if you feel unwell.
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	: Call a poison center or a doctor if you feel unwell.

### 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.

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### 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 from fire control or dilution water may cause pollution.  
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 mist, spray, vapours. 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.

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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 mist, spray, vapours. 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/m <sup>3</sup>
	150 ppm
WEL STEL (OEL STEL)	966 mg/m <sup>3</sup>
	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/m <sup>3</sup>
	400 ppm
WEL STEL (OEL STEL)	1250 mg/m <sup>3</sup>
	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/m <sup>3</sup>
	100 ppm

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cyclohexane (110-82-7)	
WEL STEL (OEL STEL)	1050 mg/m <sup>3</sup>
	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/m <sup>3</sup>
	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/m <sup>3</sup>
	600 ppm
WEL STEL (OEL STEL)	1810 mg/m <sup>3</sup>
	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):



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### 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	Aerosols, mist, Normal use conditions		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

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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



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### 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

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<b>propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)</b>	
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
<b>cyclohexane (110-82-7)</b>	
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:
<b>Hydrocarbons, C11-C12, isoalkanes, &lt; 2% aromatics</b>	
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)
<b>isopropyl acetate (108-21-4)</b>	
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.
<b>n-butyl acetate (123-86-4)</b>	
pH	6.2 Temp.: 20 °C Concentration: 5,3 g/L
Serious eye damage/irritation	: Causes serious eye irritation.
<b>n-butyl acetate (123-86-4)</b>	
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.
<b>n-butyl acetate (123-86-4)</b>	
STOT-single exposure	May cause drowsiness or dizziness.
<b>propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)</b>	
STOT-single exposure	May cause drowsiness or dizziness.
<b>cyclohexane (110-82-7)</b>	
STOT-single exposure	May cause drowsiness or dizziness.
<b>isopropyl acetate (108-21-4)</b>	
STOT-single exposure	May cause drowsiness or dizziness.
STOT-repeated exposure	: Not classified (Conclusive but not sufficient for classification)

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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 : Not classified (Conclusive but not sufficient for classification)

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Vaporizer	Aerosol

n-butyl acetate (123-86-4)	
Viscosity, kinematic	0.83 mm <sup>2</sup> /s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm <sup>2</sup> /s)'

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
Viscosity, kinematic	2.658 mm <sup>2</sup> /s

Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics	
Viscosity, kinematic	1.57 mm <sup>2</sup> /s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm <sup>2</sup> /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) : Not classified (Conclusive but not sufficient for classification)  
Hazardous to the aquatic environment, long-term (chronic) : 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
EC50 - Crustacea [1]	44 mg/l Test organisms (species): Daphnia sp.
EC50 - Other aquatic organisms [1]	32 mg/l Test organisms (species): Artemia salina

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<b>n-butyl acetate (123-86-4)</b>	
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'
<b>propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)</b>	
LC50 - Fish [1]	10000 mg/l Test organisms (species): Pimephales promelas
<b>cyclohexane (110-82-7)</b>	
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
<b>Hydrocarbons, C11-C12, isoalkanes, &lt; 2% aromatics</b>	
NOEC (chronic)	0.011 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
<b>isopropyl acetate (108-21-4)</b>	
LC50 - Fish [1]	400 mg/l Test organisms (species): Pimephales promelas
EC50 - Other aquatic organisms [1]	110 mg/l Test organisms (species): Artemia salina
<b>12.2. Persistence and degradability</b>	
<b>HG 4-in-1 protector for textiles   HG 4-in-1 protector for textiles and leather</b>	
Persistence and degradability	Rapidly degradable
<b>n-butyl acetate (123-86-4)</b>	
Persistence and degradability	Rapidly degradable
<b>propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)</b>	
Persistence and degradability	Rapidly degradable
<b>cyclohexane (110-82-7)</b>	
Persistence and degradability	Rapidly degradable
<b>Hydrocarbons, C11-C12, isoalkanes, &lt; 2% aromatics</b>	
Persistence and degradability	Rapidly degradable
<b>isopropyl acetate (108-21-4)</b>	
Persistence and degradability	Rapidly degradable
<b>butane (106-97-8)</b>	
Persistence and degradability	Rapidly degradable

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### 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
<b>14.1. UN number</b>				
UN 1950	UN 1950	UN 1950	UN 1950	UN 1950
<b>14.2. UN proper shipping name</b>				
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)

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ADR	IMDG	IATA	ADN	RID
<b>Transport document description</b>				
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
<b>14.3. Transport hazard class(es)</b>				
2.1	2.1	2.1	2.1	2.1
				
<b>14.4. Packing group</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>				
Dangerous for the environment: Dangerous for the environment	Dangerous for the environment: Dangerous for the environment 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)	: 1I
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

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### 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.

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### 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)			
Section	Changed item	Change	Comments
	Brand door broei	Added	
	Vaporizer	Added	
	Type of product	Modified	
1.1 - Product identifier	UFI on SDS 1.1	Added	
	Revision date	Added	
2.2 - Label elements	Hazard statements (CLP)	Modified	
2.2 - Label elements	Hazard pictograms (CLP)	Modified	
2.1 - Classification of the substance or mixture	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified	
2.2 - Label elements	Precautionary statements (CLP)	Modified	
5.2 - Special hazards arising from the substance or mixture	Fire hazard	Modified	
4.1 - Description of first aid measures	First-aid measures after skin contact	Modified	
10.1 - Reactivity	Reactivity	Modified	



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According to REACH Regulation (EC) No 1907/2006, as retained and amended in UK law, and based on EU 2020/878.

Indication of changes (UK)			
Section	Changed item	Change	Comments
	Flammability	Modified	
7.2 - Conditions for safe storage, including any incompatibilities	Storage conditions	Modified	
7.2 - Conditions for safe storage, including any incompatibilities	Technical measures	Modified	
7.1 - Precautions for safe handling	Precautions for safe handling	Modified	
13.1 - Waste treatment methods	Additional information	Modified	
2.1 - Classification of the substance or mixture	Adverse physicochemical, human health and environmental effects	Modified	
6.1 - Personal precautions, protective equipment and emergency procedures	Emergency procedures	Modified	
4.1 - Description of first aid measures	First-aid measures general	Modified	
4.2 - Most important symptoms and effects, both acute and delayed	Symptoms/effects after skin contact	Modified	
4.1 - Description of first aid measures	First-aid measures after ingestion	Modified	
4.2 - Most important symptoms and effects, both acute and delayed	Symptoms/effects after ingestion	Removed	
12.1 - Toxicity	Ecology - general	Modified	
6.3 - Methods and material for containment and cleaning up	For containment	Modified	
8.2 - Exposure controls	Appropriate engineering controls	Modified	
8.2 - Exposure controls	Eye protection	Modified	
8.2 - Exposure controls	Environmental exposure controls	Modified	

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Indication of changes (UK)			
Section	Changed item	Change	Comments
6.1 - Personal precautions, protective equipment and emergency procedures	General measures	Modified	
13.1 - Waste treatment methods	Sewage disposal recommendations	Added	
13.1 - Waste treatment methods	Product/Packaging disposal recommendations	Modified	
5.1 - Extinguishing media	Unsuitable extinguishing media	Added	
4.2 - Most important symptoms and effects, both acute and delayed	Symptoms/effects after inhalation	Added	
7.2 - Conditions for safe storage, including any incompatibilities	Packaging materials	Added	
5.3 - Advice for firefighters	Firefighting instructions	Added	
6.1 - Personal precautions, protective equipment and emergency procedures	Protective equipment	Added	
6.1 - Personal precautions, protective equipment and emergency procedures	Emergency procedures	Added	
7.1 - Precautions for safe handling	Additional hazards when processed	Added	
5.3 - Advice for firefighters	Precautionary measures fire	Modified	
4.1 - Description of first aid measures	First-aid measures after ingestion	Modified	
4.1 - Description of first aid measures	First-aid measures general	Modified	
6.1 - Personal precautions, protective equipment and emergency procedures	Emergency procedures	Modified	

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Indication of changes (UK)			
Section	Changed item	Change	Comments
2.1 - Classification of the substance or mixture	Adverse physicochemical, human health and environmental effects	Modified	
7.1 - Precautions for safe handling	Precautions for safe handling	Modified	
	Revision date	Added	
2.2 - Label elements	Hazard pictograms (GB CLP)	Modified	
2.2 - Label elements	Hazard statements (GB CLP)	Modified	
	Indication of changes	Removed	
5.3 - Advice for firefighters	Precautionary measures fire	Modified	
13.1 - Waste treatment methods	Product/Packaging disposal recommendations	Added	
13.1 - Waste treatment methods	Sewage disposal recommendations	Added	
6.1 - Personal precautions, protective equipment and emergency procedures	General measures	Added	
6.4 - Reference to other sections	Reference to other sections (8, 13)	Modified	
6.3 - Methods and material for containment and cleaning up	For containment	Modified	
4.2 - Most important symptoms and effects, both acute and delayed	Symptoms/effects after ingestion	Removed	
2.1 - Classification of the substance or mixture	Classification according to Regulation (EC) No. 1272/2008 [CLP]	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

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Abbreviations and acronyms:	
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
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.

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### 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
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.