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# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 25.01.2021

Version: 1

Revision: 25.01.2021

SECTION 1: Identification of the substance/mixture and of the company/ undertaking \* 1.1 Product identifier \* Trade name: HAKKENSPRAY \* Article number: ART1001290 \* 1.2 Relevant identified uses of the substance or mixture and uses advised against Sector of Use SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen) \* Application of the substance / the mixture See information supplied by the manufacturer. \* Uses advised against All not mentioned uses SU21 Consumer uses: Private households / general public / consumers \* 1.3 Details of the supplier of the safety data sheet \* Manufacturer/Supplier: Jumbo Totaal B.V. Achterzeedijk 57 2992 SB Barendrecht The Netherlands Tel: 00-31-(0)180-619009 www.jumbototaal.com \* Information department: Product Safety department Tel.: 00-31 - (0) 180-619009 reiniging@jumbototaal.com Support is only given in the following languages: Dutch and English 1.4 Emergency telephone number: Product Safety Department In case of a spill or accident, you can contact us at: tel. (00) - 31 - 167 - 526 - 888 (during office hours) During office hours we can be contacted for general information at: tel. (00) - 31 - 167 - 526 - 900 Support is only given in the following languages: Dutch, English and German SECTION 2: Hazards identification \* 2.1 Classification of the substance or mixture \* Classification according to Regulation (EC) No 1272/2008 health hazard Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

Eye Irrit. 2 H319 Causes serious eye irritation.

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Trade name: HAKKENSPRAY

- \* 2.2 Label elements
- \* Labelling according to Regulation (EC) No 1272/2008
- The product is classified and labelled according to the CLP regulation.
- \* Hazard pictograms



GHS07 GHS08

# \* Signal word Danger

\* Hazard-determining components of labelling: Hydrocarbons, C11-C12, isoalkanes, <2% aromatics Hydrocarbons, C11-C13, isoalkanes, <2% aromatics

# \* Hazard statements

H319 Causes serious eye irritation.

H304 May be fatal if swallowed and enters airways.

\* Precautionary statements

Fiecaulionaly Sid	
P264	Wash thoroughly after handling.
P280	Wear eye protection / face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P331	Do NOT induce vomiting.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
	lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/
	international regulations.
22 Athar hazarda	Nat applicable

\* 2.3 Other hazards Not applicable.

- \* Results of PBT and vPvB assessment
- \* **PBT:** Based on available data, the classification criteria are not met.

\* vPvB: Based on available data, the classification criteria are not met.

# CTION 3: Composition/information on ingredients

- \* 3.2 Mixtures
- \* Description: Mixture of the substances listed below with nonhazardous additions.
- \* Dangerous components:

Dangerous components.		
CAS: 112-34-5 EINECS: 203-961-6 Index number: 603-096-00-8 Reg.nr.: 01-2119475104-44	2-(2-butoxyethoxy)ethanol	25-50%
CAS: 90622-57-4 EC number: 918-167-1 Reg.nr.: 01-2119472146-39 UVCB	Hydrocarbons, C11-C12, isoalkanes, <2% aromatics Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 4, H413	20-25%
CAS: 90622-58-5 EC number: 920-901-0 Reg.nr.: 01-2119456810-40 UVCB	Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	20-25%
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	(2	( 0)
CAS: 3470-98-2	1-butylpyrrolidin-2-one	of page 2 5-7%
EINECS: 222-437-8	Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319	0770
Reg.nr.: 01-2120062728-48	V , , , , <b>,</b>	
CAS: 34590-94-8	Dipropylene glycol monomethyl ether	3-5%
EINECS: 252-104-2	substance with a Community workplace exposure limit	
Reg.nr.: 01-2119450011-60		
* Additional information Product compositional ranges intended to form any part of a All values in this chapter are		not
CTION 4: First aid measur	'AS	
* 4.1 Description of first aid r	neasures	
* General information	hing called by the product	
Immediately remove any clot	• • •	for at
least 48 hours after the accid	even occur after several hours; therefore medical observation ent	ior al
Personal protection for the Fi		
* After inhalation		
Supply fresh air; consult doct		
	sols (mists, fumes) may cause lung edema.	
* After eye contact Quickly re	emove all contaminated clothing, including footwear	
-	l minutes under running water. If symptoms persist, consult a d	doctor
	the eye by keeping eyelids apart and away from eye and mov	
eyelids by occasionally lifting	the upper and lower lids.	U
	t 15 minutes under running water.	
* After swallowing	ictim is conscious and clort weak out mouth with water, give a	avaral
alasses of water. Get medica	ictim is conscious and alert, wash out mouth with water, give s I aid immediately if necessary.	everai
0	ears imminent or occurs, hold patient's head down. Lower than	their
hips to help avoid possible as	spiration of vomits.	
Seek immediate medical adv		
* 4.2 Most important sympton delayed Breathing difficulty	ms and effects, both acute and	
irritation / redness		
* Danger		
Danger of pneumonia. Danger of pulmonary oedema.		
needed If swallowed, gastric		
If swallowed or in case of von		
lungs Medical supervision for Later observation for pneumo		

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# SECTION 5: Firefighting measures

- \* 5.1 Extinguishing media
- \* Suitable extinguishing agents CO2, sand, extinguishing powder. Do not use water.
- \* For safety reasons unsuitable extinguishing agents



Water with full jet.

\* 5.2 Special hazards arising from the substance or mixture In case of fire, the following can be released:

Nitrogen oxides (NOx)

Carbon monoxide (CO)

In certain fire conditions, traces of other toxic gases cannot be excluded.

Avoid contamination with oxidising agents i.e. nitrates, oxidising scents, chlorine bleaches, pool chlorine etc. as ignition may result

Danger of toxic pyrolysis products

\* 5.3 Advice for firefighters \* Protective equipment:

Wear self-contained respiratory protective device.

In case of danger, wear protective clothes \* Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Collect contaminated fire fighting water separately. It must not enter the sewage system.

# SECTION 6: Accidental release measures

<ul> <li>* 6.1 Personal precautions, protective equipment and emergency procedures Keep people at a distance and stay on the windward side. Use respiratory protective device against the effects of fumes/dust/aerosol. Wear protective clothing. Warning: Contaminated absorbent material may pose the same hazard as the spilled product.</li> <li>* 6.2 Environmental precautions: This material and its container must be disposed of as hazardous waste. Use appropriate container to avoid environmental contamination. Dispose of this material and its container to hazardous or special waste collection point.</li> </ul>
* 6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Do not flush with water or aqueous cleansing agents
* 6.4 Reference to other sections
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

# CTION 7<sup>.</sup> Handling and storage

\* 7.1 Precautions for safe handling Keep receptacles tightly sealed.

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Waste air is to be released into the atmosphere only via suitable separators. Avoid the formation of oil haze. Do not breathe spray. Do not eat, drink or smoke when using this product. Avoid contact during pregnancy and while nursing.

\* Information about protection against explosions and fires: The product forms flammable fumes when heated.

- \* **7.2 Conditions for safe storage, including any incompatibilities** Avoid contamination of water, foodstuffs, feeds or seed Store in original containers.
- \* Storage
- \* Requirements to be met by storerooms and receptacles: No special requirements.
- \* Information about storage in one common storage facility:



Store away from foodstuffs.

See section 10.3: Possibility of hazardous reactions

- \* Further information about storage conditions: No further relevant information available.
- \* Compatible materials No further relevant information available.
- \* Incompatible materials No further relevant information available.
- \* 7.3 Specific end use(s) No further relevant information available.

# CTION 8. Exposure controls/personal protection

## \* 8.1 Control parameters

\* Components with limit values that require monitoring at the workplace: CAS: 112-34-5 2-(2-butoxyethoxy)ethanol

IOELV Short-term value: 101.2 mg/m<sup>3</sup>, 15 ppm Long-term value: 67.5 mg/m<sup>3</sup>, 10 ppm

# CAS: 34590-94-8 Dipropylene glycol monomethyl ether

IOELV Long-term value: 308 mg/m<sup>3</sup>, 50 ppm Skin

# \* DNELs

CAS: 112-34-5 2-(2-butoxyethoxy)ethanol		
Oral	DNEL	5 mg/kg bw/day (Human: General public) (Long term systemic effects)
Dermal	DNEL	50 mg/kg bw/day (Human: Generals public) (Long term systemic effects)
		83 mg/kg bw/day (Human: Worker) (Long term systemic effects)
Inhalative	DNEL	67.5 mg/m3 (Human: Worker) (Long term systemic effects)
		60.7 mg/m3 (Human: Generals public) (Short term systemic effects)
		67.5 mg/m3 (Human: Worker) (Long term local effects)
		40.5 mg/m3 (Human: General public) (Long term local effects)
		101.2 mg/m3 (Human: Worker) (Short term local effects)
		40.5 mg/m3 (Human: General public) (Long term systemic effects)
CAS: 34590-94-8 Dipropylene glycol monomethyl ether		
Oral	DNEL	36 mg/kg (Human: Generals public) (Long term systemic effects)

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# Trade name: HAKKENSPRAY

		(Contd. c L 36 mg/kg bw/day (Human: Generals public) (Long term systemic effects)	of pag
Dermal		L 121 mg/kg bw/day (Human: Generals public) (Long term systemic effects)	
Dennai	DINLL	283 mg/kg bw/day (Human: Worker) (Long term systemic effects)	
Inhalati		37.2 mg/m3 (Human: Generals public) (Long term systemic effects)	
mnaian		308 mg/m3 (Human: Worker) (Long term systemic effects)	
* PNECs			
		P-(2-butoxyethoxy)ethanol	
		g/kg (Predators) (Food)	
	-	mg/kg dw (Sediment Freshwater) 0.44	
		/kg dw (Sediment marinewater)	
	0.32	2 mg/kg dw (Soil)	
PI		mg/l (Freshwater)	
	0.1	1 mg/l (Marine water (seawater))	
	200	0 mg/l (Waste water treatment plant)	
	11 ו	mg/l (Freshwater intermittent)	
		-8 Dipropylene glycol monomethyl	
et		C 70.2 mg/kg dw (Sediment Freshwater)	
		2 mg/kg dw (Sediment marinewater)	
ים		74 mg/kg dw (Soil)	
PI		mg/l (Freshwater) ) mg/l (Marine water (seawater))	
		68 mg/l (Waste water treatment plant)	
		0 mg/l (Freshwater intermittent)	
* Additio		rmation:	
The list	s that we	ere valid during the creation were used as	
		can be determined with respect to H304	
		-5 Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	<u>_</u>
Inhalati	ve Indica Value	ative Occupational Exposure Limit 1,200 mg/m3 (Human: Worker) (RCP-TGC e (i)	i)
* 0 0 5			
	osure co mendatio	ons are based on working at ambient temperature, unless stated otherwise	
	-	gineering controls	
		entilation usually required, if risk of overexposure exists, wear approved resp	
		air extraction, an unfavorable concentration of the substance in the air can of	ccur
		Id be protected using PPEs. This protection may include: nask, combined with an absorption cartridge if necessary	
		nasks with absorption cartridge or filter canister of the correct type	
(c) fre	sh air ma	ask	
• • •	ne cupbo ual prote	oard ection measures, such as personal protective equipment	
	-	tive and hygienic measures	
Immedi	ately rem	nove all soiled and contaminated	
		nands before breaks and at the end of	
		tact with the eyes and skin. k, smoke or sniff while working.	
	sai, unn	A, SITIONE OF STILL WITHE WORKING.	

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## Trade name: HAKKENSPRAY

Do not carry product impregnated cleaning cloths in trouser pockets.

\* **Breathing equipment:** Ensure good ventilation/exhaustion at the workplace.

# \* Hand protection



Use chemical resistant gloves classified under standard EN 374: Protective gloves against chemicals and micro-organisms.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. Check the permeability prior to each anewed use of the glove.

For the permanent contact in work areas with heightened risk of injury (mechanical hazard) no recommendation for a suitable glove material can be given.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

# \* Penetration time of glove material

When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374) is recommended.

NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all requisite workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), as well as the instructions/specifications provided by the glove supplier.

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

## <u>EN 374:</u>

class Breaktrough time

1 > 10 min

2> 30 min

3> 60 min

4> 120 min

5> 240 min

6> 480 min

\* For the permanent contact gloves made of the following materials are suitable: Fluorocarbon rubber (Viton)

Nitrile rubber, NBR Chloroprene rubber, CR PVA gloves Recommended thickness of the material:  $\varepsilon$  0.5 mm

# \* For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

Butyl rubber, BR Fluorocarbon rubber (Viton) Nitrile rubber, NBR Chloroprene rubber, CR PVC gloves PVA gloves Recommended thickness of the material: ε 0.5 mm

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<ul> <li>* As protection from splashes gloves made of the following materials are suitable: Butyl rubber, BR</li> <li>Fluorocarbon rubber</li> <li>(Viton) Nitrile rubber, NBR</li> <li>Chloroprene rubber, CR</li> <li>PVC gloves</li> <li>PVA gloves</li> <li>Recommended thickness of the material: ε 0.1 mm</li> </ul>	(Contd. of page 7)
<ul> <li>* Not suitable are gloves made of the following materials: Natural rubber, NR Leather gloves Strong gloves</li> <li>* Eye/face protection Safety glasses</li> <li>* Body protection: Impervious protective clothing Take off contaminated clothing and wash it before reuse.</li> <li>* Boots</li> </ul>	
made out of rubber made out of plastic * <b>Risk management measures</b>	
ANSI Z 358.1 Emergency Eyewash and Shower equipment Keep good industrial hygiene.	

#### SECTION 9: Physical and chemical properties \* 9.1 Information on basic physical and chemical properties \* General Information \* Physical state Fluid \* Colour: Colourless \* Odour: Characteristic \* Odour threshold: Not determined. \* *Melting point/freezing point:* Not determined. \* Boiling point or initial boiling point and 175 °C boiling range \* Heat of vaporization \* Flammability Not applicable. \* Lower and upper explosion limit \* Lower: 0.6 Vol % (CAS) \* Test data: 7 Vol % (CAS) \* Upper: \* Flash point: 70 °C \* Self igniting: Product is not selfigniting.

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* Minimum ignition energy	
* Decomposition temperature:	Not determined.
* рН	Not determined.
* pH value solutions:	Not applicable.
* Viscosity (4):	
* Kinematic viscosity	Not determined.
* dynamic at 20 °C:	2.5 mPas
* Solubility	
* Water:	Slightly soluble
* Partition coefficient n-octanol/water (log	
value)	Not determined.
* Vapour pressure at 20 °C:	0.7 hPa
* Vapour pressure (1):	
112-34-5 2-(2-butoxyethoxy)ethanol 5.5 Pa (	@ 20°C
* Steam pressure:	
* Density and/or relative density	
* Density at 20 °C:	0.85 g/cm³
* Relative density	Not determined.
* Vapour density	Not determined.
* 9.2 Other information	
* Appearance:	
* Form:	Liquid
* Important information on protection of heal	lth
and environment, and on safety.	
* Ignition temperature:	>200 °C
* Test data:	
* Explosive properties:	Product does not present an explosion hazard.
	Not determined.
* Solvent content:	
* Organic solvents (VOC/HAP):	93.0 %
* Change in condition	
* Critical Temperature	
* Oxidising properties	Not applicable.
* Evaporation rate	
90622-57-4 Hydrocarbons, C11-C12, isoalkai	nes, <2% aromatics 0.08 (n-butylacetaat =1)
* Information with regard to physical hazard	
classes	Netensiashia
* Explosives	Not applicable.
* Flammable gases	Not applicable.
* Aerosols	Not applicable.
* Ovidiaina acces	Not applicable
* Oxidising gases	Not applicable.
* Gases under pressure	Not applicable.
* Gases under pressure * Flammable liquids	Not applicable. Not applicable.
* Gases under pressure * Flammable liquids * Flammable solids	Not applicable. Not applicable. Not applicable.
* Gases under pressure * Flammable liquids * Flammable solids * Self-reactive substances and mixtures	Not applicable. Not applicable. Not applicable. Not applicable.
* Gases under pressure * Flammable liquids * Flammable solids * Self-reactive substances and mixtures * Pyrophoric liquids	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
* Gases under pressure * Flammable liquids * Flammable solids * Self-reactive substances and mixtures * Pyrophoric liquids * Pyrophoric solids	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
* Gases under pressure * Flammable liquids * Flammable solids * Self-reactive substances and mixtures * Pyrophoric liquids * Pyrophoric solids * Self-heating substances and mixtures	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
* Gases under pressure * Flammable liquids * Flammable solids * Self-reactive substances and mixtures * Pyrophoric liquids * Pyrophoric solids	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.

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## Trade name: HAKKENSPRAY

\* Oxidising liquids

- \* Oxidising solids
- \* Organic peroxides
- \* Corrosive to metals
- \* Desensitised explosives

Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.

# SECTION 10: Stability and reactivity

\* **10.1 Reactivity** See section 10.3: Possibility of hazardous reactions \* **10.2 Chemical stability** \* **Thermal decomposition** / **conditions to be avoided:** 

- No decomposition if used and stored according to specifications. \* **10.3 Possibility of hazardous reactions** Flammable
- Reacts with oxidizing agents
- \* 10.4 Conditions to avoid
- Do not get in eyes, on skin, or on clothing.
- See section 10.3: Possibility of hazardous reactions
- \* 10.5 Incompatible materials: See section 10.3: Possibility of hazardous reactions
- \* 10.6 Hazardous decomposition products: No dangerous decomposition products known

# SECTION 11: Toxicological information

\* 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

\* Acute toxicity

\* LD/LC50 values that are relevant for classification:

CAS: 112-34-5 2-(2-butoxyethoxy)ethanol				
LD50	2,410 mg/kg (Mice) (OECD 401)			
	3,305 mg/kg (rat)			
LD50	2,764 mg/kg (Rabbit)			
22-57-4 Hydrocarbons, C11-C12, iso	balkanes, <2% aromatics			
OECD 401: Acute Oral Toxicity	>5,000 mg/kg (rat) (Based on test data from similar products)			
OECD 402: Acute Dermal Toxicity	>5,000 mg/kg (Rabbit) (Based on test data from similar products)			
OECD 403: Acute Inhalation Toxicity	>5,000 mg/l (rat) (Based on test data from similar products)			
22-58-5 Hydrocarbons, C11-C13, iso	balkanes, <2% aromatics			
LD50	>10,000 mg/kg (-)			
LD50	>3,160 mg/kg (-)			
CAS: 3470-98-2 1-butylpyrrolidin-2-one				
LD50	2,000 mg/kg (rat)			
LD50	>2,000 mg/kg (Rabbit)			
CAS: 34590-94-8 Dipropylene glycol monomethyl ether				
LD50	>5,000 mg/kg (rat)			
	LD50 LD50 <b>22-57-4 Hydrocarbons, C11-C12, iso</b> OECD 401: Acute Oral Toxicity OECD 402: Acute Dermal Toxicity OECD 403: Acute Inhalation Toxicity <b>22-58-5 Hydrocarbons, C11-C13, iso</b> LD50 LD50 <b>0-98-2 1-butylpyrrolidin-2-one</b> LD50 LD50 <b>90-94-8 Dipropylene glycol monome</b>			

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Derm	al LD50	19,020 mg/kg (	(Contd. of page (Contd. of pag
		10,020 mg/ng (	
	corrosion/irritation		
* Test			
	90622-57-4 Hydrocarbons, C11-C12,		
	on of skin OECD 404: Acute Dermal Iri <b>us eye damage/irritation</b> Causes serio		) (Slight skin irritation)
* Test	2	bus eye imalion.	
	90622-57-4 Hydrocarbons, C11-C12,	isoalkanes. <2% a	aromatics
	on of eyes OECD 405: Acute Eye Irrita		
* Test			
	90622-57-4 Hydrocarbons, C11-C12,	isoalkanes. <2% a	aromatics
	tisation OECD 406: Skin Sensitisation	-	
* Gern	cell mutagenicity Based on available	data, the classifica	tion criteria are not met.
	tional information:		
CAS:	112-34-5 2-(2-butoxyethoxy)ethanol		
	OECD 471: Bacterial Reverse Mutation	Test (AMES)	(bac) (Negative)
CAS:	90622-57-4 Hydrocarbons, C11-C12,	isoalkanes, <2% a	aromatics
Oral	OECD 414: Prenatal Development Tox.	Study (o)	ng/kg bw/day (-) (Negative)
	OECD 421: Reproduction/Development	-	ng/kg (-) (Negative)
	OECD 422: Repr/Developl Tox Screeni	ng systemic ı	ng/kg/day (-) (Negative)
	OECD 471: Bacterial Reverse Mutation	Test (AMES)	(-) (Negative)
	OECD 473: In Vitro Mammalian Chrome	osome Aberration	(-) (Negative)
	OECD 474: Mammalian Erythrocyte Mic		(-) (Negative)
	OECD 476: In vitro Mammalian Cell Ge		(-) (Negative)
	OECD 478: Rodent Dominant Lethal As		(-) (Negative)
	OECD 479: In vitro Sister Chromatid Ex		(-) (Negative)
	ration hazard May be fatal if swallowed	and enters airways	5.
	tional toxicological information:	on Concorl	
	(International Agency for Research of of the ingredients is listed.		
	effects (acute toxicity, irritation and co	orrocivity)	
	e fatal if swallowed and enters airways.	onosivity)	
	cute effects. Check Chapter 4.2.		
* Test	data:		
CAS:	90622-57-4 Hydrocarbons, C11-C12,		
Oral	OECD 408: Repeated Dose 90-Da		
	ative OECD 413: Subchronic Inhalation	Toxicity: 90-days	(-) (Negative)
	nformation on other hazards		
	crine disrupting properties		
None	of the ingredients is listed.		

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12.1 Toxicity			
CAS: 112-34-5 2-(2-butoxyethoxy)ethanol			
EC50/96h	>100 mg/l (Algae (Scenedesmus subspicatus)		
LC50/96h	1,300 mg/l (Fish (Lepomis macrochirus))		
	2,000 mg/l (Fish (Menidia beryllina))		
OECD 201: Growth Inhibition Test (@72h) (static)	>100 mg/l (Algae (Scenedesmus subspicatus)		
OECD 202 (PART I): Daphnia sp. Acute Imm Test	. >100 mg/l (Crustacea (Daphnia magna)) (EC50/48h)		
OECD 203: Fish, Acute Toxicity Test (@96h)	1,300 mg/l (Fish (lepomis macrochirus))		
EC50/48h	>100 mg/l (Crustacea (Daphnia magna))		
EC50	255 mg/l (Bacteria)		
CAS: 90622-57-4 Hydrocarbons, C11-C12,	isoalkanes, <2% aromatics		
LC50/96h	1,000 mg/l (Fish (Oncorhynchus mykiss))		
EC50/48h	1,000 mg/l (Crustacea (Daphnia magna))		
EC50/72h	1,000 mg/l (Algae (Pseudokirchneriella subcapitata))		
NOEC (21d)	≥1 mg/l (Crustacea (Daphnia magna))		
NOEC (72h)	1,000 mg/l (Algae (Pseudokirchneriella subcapitata))		
CAS: 3470-98-2 1-butylpyrrolidin-2-one			
LC50/96h	>100 mg/l (Fish (Oncorhynchus mykiss))		
EC50/48h	>100 mg/l (Crustacea (Daphnia magna))		
EC50/72h	>160 mg/l (Algae)		
CAS: 34590-94-8 Dipropylene glycol mono	methyl ether		
LC50/96h	10,000 mg/l (Fish)		
EC50/48h	1,919 mg/l (Crustacea (Daphnia magna))		
EC50/72h	6,999 mg/l (Algae (Scenedesmus subspicatus		
* 12.2 Persistence and degradability No furth	her relevant information available.		
* Degree of elimination:			
CAS: 112-34-5 2-(2-butoxyethoxy)ethanol			
OECD 301C: MITI (I) 89-	93 % (-) (28d)		
OECD 302B: (Elimination) Zahn-Wellens 100	) % (Bacteria) (28d)		
COD (Chemical Oxygen Demand) 2.0			
CAS: 90622-57-4 Hydrocarbons, C11-C12,	isoalkanes, <2% aromatics		
Biodegradation 31.	3 % (-) (28d)		
CAS: 34590-94-8 Dipropylene glycol mono	methyl ether		
Biodegradation 75	% (Bacteria) (@28 d)		



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* Test data:		
CAS: 112-34-5 2-(2-buto	xyethoxy)ethanol	
OECD 107: Log Pow	1 (-)	
BCF Bioaccumulation	<100 (-)	
CAS: 90622-57-4 Hydrod	arbons, C11-C12, isoalkanes, <2% aromatics	
OECD 117 (et.al) Log Por	v >4 (-)	
CAS: 3470-98-2 1-butylp	yrrolidin-2-one	
OECD 117 (et.al) Log Por	v 1.265 (-)	
CAS: 34590-94-8 Diprop	ylene glycol monomethyl ether	
OECD 107: Log Pow	0.0043 (-)	
* 12.4 Mobility in soil		
CAS: 34590-94-8 Diprop	ylene glycol monomethyl	
ether Koc 0.28 (Soil)		
* 12.5 Results of PBT and		
	data, the classification criteria are not met.	
	e data, the classification criteria are not met.	
* 12.6 Endocrine disrupti	ng properties	
The product does not con	tain substances with endocrine disrupting properties.	

\* 12.7 Other adverse effects

\* Additional ecological information:

\* General notes: Not known to be hazardous to water.

# SECTION 13: Disposal considerations

# \* 13.1 Waste treatment methods

\* Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

After prior treatment product has to be disposed of in an incinerator for hazardous waste adhering to the regulations pertaining to the disposal of particularly hazardous waste.

# \* European waste catalogue

The EC waste catalog number (EAC) can only be determined after the type of use by the end-user is known for this product.

# \* Uncleaned packagings:

\* Recommendation:

Disposal must be made according to official regulations.

Dispose of packaging according to regulations on the disposal of packagings.

# SECTION 14: Transport information \* 14.1 UN number or ID number \* ADR/RID/ADN, ADN, IMDG, IATA Not applicable. \* 14.2 UN proper shipping name \* ADR/RID/ADN, ADN, IMDG, IATA Not applicable. (Contd. on page 14)



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		(Contd. of page 13)
* 14.3 Transport hazard class(es)		
*ADR/RID/ADN, ADN, IMDG, IATA * Class	Not applicable.	
*14.4 Packing group *ADR/RID/ADN, IMDG, IATA	Not applicable.	
*14.5 Environmental hazards:	Not applicable.	
*14.6 Special precautions for user	Not applicable.	
*14.7 Maritime transport in bulk accord IMO instruments	ing to Not applicable.	
* UN "Model Regulation":	Not applicable.	

# SECTION 15: Regulatory information

- \* 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- \* Chemical Inventory Status
- \* Canadian Domestic Substances List (DSL): (Substances not listed)
- CAS: 90622-58-5 Hydrocarbons, C11-C13, isoalkanes, <2% aromatics
- CAS: 3470-98-2 1-butylpyrrolidin-2-one

### \* Directive 2012/18/EU

- \* Named dangerous substances ANNEX I geen der bestanddelen staat op de lijst.
- \* National regulations
- \* Information about limitation of use: Employment restrictions concerning young persons must be observed. Source: 94/33/EC
- \* "Australia Group Common Control List" (2009) http://www.australiagroup.net/en/ precursors.html

None of the ingredients is listed.

- \* Chemical Weapons Convention Annex 1 www.opcw.org (2011) None of the ingredients is listed.
- \* Chemical Weapons Convention Annex 2 www.opcw.org (2011) None of the ingredients is listed.
- \* Chemical Weapons Convention Annex 3 www.opcw.org (2011) None of the ingredients is listed.

\* INFCIRC254 Rev. 10 (06/2011) www.nuclearsuppliersgroup.org None of the ingredients is listed.

\* "Wassenaar Arrangement" Munitions list Ver.10 (2010) www.wassenaar.org None of the ingredients is listed.

\* Missile Technology Control Regime List (04/2011) www.mtcr.info None of the ingredients is listed.

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R1; R2; D1

# Trade name: HAKKENSPRAY

* 2455/2001/EC list of priority substances in the field of water
policy None of the ingredients is listed.

\* UN International Narcotics Control Board (01/2011) "Red List" www.incb.org None of the ingredients is listed.

- \* UN International Narcotics Control Board (05/2010) "Green List" www.incb.org None of the ingredients is listed.
- \* UN International Narcotics Control Board (12/2010) "Yellow List" www.incb.org None of the ingredients is listed.
- \* REACH Pre-registered substances: (Substances not listed)

CAS: 90622-57-4 Hydrocarbons, C11-C12, isoalkanes, <2% aromatics

\* RoHS 2015/863/EU

None of the ingredients is listed.

\* Aerospace and Defence Declarable Substances List (AD-DSL)

CAS: 3470-98-2 1-butylpyrrolidin-2-one

\* 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

# CTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

## \* Relevant phrases

H226 Flammable liquid and vapour. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H319 Causes serious eye irritation. H413 May cause long lasting harmful effects to aquatic life.

- \* Department issuing SDS: Product Safety Department
- \* Contact: Contact information can be found in chapter 1: Supplier information
- \* Abbreviations and acronyms:

To the best of our knowledge, the information contained herein is accurate. However, neither the above supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards thet exist. ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning

the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

- DNEL: Derived No-Effect Level (REACH)
- PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- SVHC: Substances of Very High Concern
- vPvB: very Persistent and very Bioaccumulative
- Flam. Liq. 3: Flammable liquids Category 3



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Acute Tox. 4: Acute toxicity – Category 4 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Asp. Tox. 1: Aspiration hazard – Category 1 Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4 \* \* **Data compared to the previous version altered.** 

EU