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

1.1. Product identifier

Product form : Mixture
Trade name/designation : Heatcover (1L, 5L, 25L, IBC-EX)

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, Professional uses
Use of the substance/mixture : Substances added to water to modify its vapour pressure (e.g. to reduce evaporation). Only for use in private and commercial swimming pools and ponds. Dosing instruction : add 1 – 2 ML. per square meter per 24 hours to your swimming pool or pond. It is strongly advised to use a dosing pump for correctness of dosing quantities and ease of use.

1.2.2. Uses advised against

Uses advised against : Drinking water
Laboratory activities

1.3. Details of the supplier of the safety data sheet

HeatCover BV
Nieuwstraat 115A
9190 Stekene - Belgium
T +32 (0) 3 296 32 05
info@heatcover.eu - www.heatcover.eu

1.4. Emergency telephone number

Emergency number : +32 (0) 3 296 32 05
Only available during office hours.
08:00 - 17:00h (monday - friday)

Country	Official advisory body	Address	Emergency number
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre, Wolfson Unit	Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle	0844 892 0111 (UK only, 24/7, healthcare professionals only)


SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flam. Liq. 2 H225
Eye Irrit. 2 H319

Full text of H statements : see section 16

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2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS02

GHS07

Signal word :

Danger

Hazard statements (CLP) :

H225 - Highly flammable liquid and vapour.
H319 - Causes serious eye irritation.

Precautionary statements (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.
P264 - Wash hands thoroughly after handling.
P280 - Wear protective gloves, protective clothing, eye protection, face protection.
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403+P235 - Store in a well-ventilated place. Keep cool.
P501 - Dispose of contents and container to an approved waste disposal plant.

2.3. Other hazards

Other hazards :

Vapours can form explosive mixtures with air. Results of PBT and vPvB assessment : Not applicable.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable


3.2. Mixtures

Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
ethanol; ethyl alcohol	(CAS-No.) 64-17-5 (EC-No.) 200-578-6 (EC Index) 603-002-00-5 (REACH-no) 01-2119457610-43-xxxx	≥ 90	Flam. Liq. 2, H225 Eye Irrit. 2, H319
butanone; ethyl methyl ketone	(CAS-No.) 78-93-3 (EC-No.) 201-159-0 (EC Index) 606-002-00-3 (REACH-no) 01-2119457290-43-xxxx	1 - <5	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
propan-2-ol; isopropyl alcohol; isopropanol	(CAS-No.) 67-63-0 (EC-No.) 200-661-7 (EC Index) 603-117-00-0 (REACH-no) 01-2119457558-25-xxxx	1 - <5	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336

Specific concentration limits:

Substance name	Product identifier	Specific concentration limits
ethanol; ethyl alcohol	(CAS-No.) 64-17-5 (EC-No.) 200-578-6 (EC Index) 603-002-00-5 (REACH-no) 01-2119457610-43-xxxx	(50 ≤C ≤ 100) Eye Irrit. 2, H319

Full text of H-statements: see section 16

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SECTION 4: First aid measures

4.1. Description of first aid measures

Additional advice	: First aider: Pay attention to self-protection!. Concerning personal protective equipment to use, see section 8. Never give anything by mouth to an unconscious person. In case of doubt or persistent symptoms, consult always a physician. Show this safety data sheet to the doctor in attendance.
Inhalation	: Remove casualty to fresh air and keep warm and at rest. In case of doubt or persistent symptoms, consult always a physician.
Skin contact	: Remove contaminated clothing and shoes. Gently wash with plenty of soap and water. In case of doubt or persistent symptoms, consult always a physician.
Eyes contact	: Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. In case of doubt or persistent symptoms, consult always a physician.
Ingestion	: Rinse mouth thoroughly with water. Get medical advice/attention.

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

Inhalation	: In case of inhalation of high concentrations : The following symptoms may occur: Dry throat. Sore throat. Cough. irritation of mucous membranes. Difficulty in breathing. Depression of the central nervous system, headaches, dizziness, drowsiness, loss of coordination.
Skin contact	: In the event of exposure to high concentrations : The following symptoms may occur: Slight irritation.
Eyes contact	: Causes serious eye irritation. In the event of exposure to high concentrations : The following symptoms may occur: Redness. Lacrimation.
Ingestion	: On ingestion in large quantities: Risk of aspiration pneumonia. Red skin. Body temperature rise. Damp/clammy skin. Excited/restless. Accelerated heart action. Depression of the central nervous system, headaches, dizziness, drowsiness, loss of coordination. Visual disturbances. Impaired concentration. Pain. Unconsciousness. Tremor. May cause stomach cramps and vomiting.

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	: carbon dioxide (CO2), powder, alcohol-resistant foam, water spray.
Unsuitable extinguishing media	: Strong water jet.

5.2. Special hazards arising from the substance or mixture

Specific hazards	: Highly flammable liquid and vapour. Heating will cause a rise in pressure with a risk of bursting. Vapours may form explosive mixture with air. Vapours are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapours.
Hazardous decomposition products in case of fire	: Carbon oxides (CO, CO2).

5.3. Advice for firefighters

Firefighting instructions	: Evacuate area. Use water spray or fog for cooling exposed containers. Contain the extinguishing fluids by bunding. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus.
Other information	: Do not allow run-off from fire-fighting to enter drains or water courses. Dispose of waste in accordance with environmental legislation.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

For non-emergency personnel : Evacuate unnecessary personnel. Keep upwind. Provide adequate ventilation. Wear recommended personal protective equipment. Concerning personal protective equipment to use, see section 8. Do not breathe vapours. Avoid contact with skin, eyes and clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ensure equipment is adequately earthed. Use explosion-proof equipment. Use only non-sparking tools.

6.1.2. For emergency responders

For emergency responders : Ensure procedures and training for emergency decontamination and disposal are in place. Concerning personal protective equipment to use, see section 8.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Stop leak if safe to do so. Dam up the liquid spill. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Recover large spills by pumping (use an explosion proof or hand pump). Place in a suitable container for disposal in accordance with the waste regulations (see Section 13). This material and its container must be disposed of in a safe way, and as per local legislation. Cover the spilled liquid product with foam to slow down evaporation.

6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Provide adequate ventilation. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Do not breathe vapours. Avoid contact with skin, eyes and clothing. Take any precaution to avoid mixing with Incompatible materials, Refer to Section 10 on Incompatible Materials. Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time). Avoid release to the environment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools.

Hygiene measures : Keep good industrial hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feedingstuffs. Remove contaminated clothes. Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities


Storage conditions : Storage of flammable liquids. Store in a dry, cool and well-ventilated place. Do not store near or with any of the incompatible materials listed in section 10. Bund storage facilities to prevent soil and water pollution in the event of spillage. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep out of direct sunlight.

Special rules on packaging : Tactile warning.

Packaging materials : Keep only in the original container. Suitable material: Polyethylene, Polypropylene. jerry can : 1L, 5L, 25L. Large amounts: IBC-EX.

7.3. Specific end use(s)


No data available.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters


ethanol; ethyl alcohol (64-17-5)		
Austria	MAK [mg/m ³]	1900 mg/m ³
Austria	MAK [ppm]	1000 ppm
Austria	MAK Short time value [mg/m ³]	3800 mg/m ³
Austria	MAK Short time value [ppm]	2000 ppm
Belgium	Limit value [mg/m ³]	1907 mg/m ³
Belgium	Limit value [ppm]	1000 ppm
Bulgaria	OEL TWA (mg/m ³)	1000 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	1900 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (ppm)	1000 ppm
Czech Republic	Expoziční limity (PEL) (mg/m ³)	1000 mg/m ³
Denmark	Grænseværdi (8 timer) (mg/m ³)	1900 mg/m ³
Denmark	Grænseværdi (8 timer) (ppm)	1000 ppm
Estonia	OEL TWA (mg/m ³)	1000 mg/m ³
Estonia	OEL TWA (ppm)	500 ppm
Estonia	OEL STEL (mg/m ³)	1900 mg/m ³
Estonia	OEL STEL (ppm)	1000 ppm
Finland	HTP-arvo (8h) (mg/m ³)	1900 mg/m ³
Finland	HTP-arvo (8h) (ppm)	1000 ppm
Finland	HTP-arvo (15 min)	2500 mg/m ³
Finland	HTP-arvo (15 min) (ppm)	1300 ppm
France	VME [mg/m ³]	1900 mg/m ³
France	VME [ppm]	1000 ppm
France	VLE [mg/m ³]	9500 mg/m ³
France	VLE [ppm]	5000 ppm
Germany	Occupational exposure limit value (mg/m ³)	380 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	Occupational exposure limit value (ppm)	200 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Greece	OEL TWA (mg/m ³)	1900 mg/m ³
Greece	OEL TWA (ppm)	1000 ppm
Hungary	AK-érték	1900 mg/m ³
Hungary	CK-érték	3800 mg/m ³
Ireland	OEL (15 min ref) (ppm)	1000 ppm
Latvia	OEL TWA (mg/m ³)	1000 mg/m ³
Lithuania	IPRV (mg/m ³)	1000 mg/m ³
Lithuania	IPRV (ppm)	500 ppm
Lithuania	TPRV (mg/m ³)	1900 mg/m ³
Lithuania	TPRV (ppm)	1000 ppm
Netherlands	Grenswaarde TGG 8H (mg/m ³)	260 mg/m ³
Netherlands	Grenswaarde TGG 15MIN (mg/m ³)	1900 mg/m ³

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ethanol; ethyl alcohol (64-17-5)		
Poland	NDS (mg/m ³)	1900 mg/m ³
Portugal	OEL TWA (ppm)	1000 ppm
Romania	OEL TWA (mg/m ³)	1900 mg/m ³
Romania	OEL TWA (ppm)	1000 ppm
Romania	OEL STEL (mg/m ³)	9500 mg/m ³
Romania	OEL STEL (ppm)	5000 ppm
Slovakia	NPHV (priemerná) (mg/m ³)	960 mg/m ³
Slovakia	NPHV (priemerná) (ppm)	500 ppm
Slovakia	NPHV (Hraničná) (mg/m ³)	1920 mg/m ³
Slovenia	OEL TWA (mg/m ³)	960 mg/m ³
Slovenia	OEL TWA (ppm)	500 ppm
Slovenia	OEL STEL (mg/m ³)	1920 mg/m ³
Slovenia	OEL STEL (ppm)	1000 ppm
Spain	VLA-EC (mg/m ³)	1910 mg/m ³
Spain	VLA-EC (ppm)	1000 ppm
Sweden	nivågränsvärde (NVG) (mg/m ³)	1000 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	500 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	1900 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	1000 ppm
United Kingdom	WEL TWA (mg/m ³)	1920 mg/m ³
United Kingdom	WEL TWA (ppm)	1000 ppm
United Kingdom	WEL STEL (mg/m ³)	5760 mg/m ³ (calculated)
United Kingdom	WEL STEL [ppm]	3000 ppm (calculated)
Norway	Grenseverdier (AN) (mg/m ³)	950 mg/m ³
Norway	Grenseverdier (AN) (ppm)	500 ppm
Norway	Grenseverdier (Kortidsverdi) (mg/m ³)	1187,5 mg/m ³ (value calculated)
Norway	Grenseverdier (Kortidsverdi) (ppm)	625 ppm (value calculated)
Switzerland	MAK (mg/m ³)	960 mg/m ³
Switzerland	MAK (ppm)	500 ppm
Switzerland	KZGW (mg/m ³)	1920 mg/m ³
Switzerland	KZGW (ppm)	1000 ppm
Australia	TWA (mg/m ³)	1880 mg/m ³
Australia	TWA (ppm)	1000 ppm
Canada (Quebec)	VECD (ppm)	1000 ppm
USA - ACGIH	ACGIH STEL (ppm)	1000 ppm
USA - IDLH	US IDLH (ppm)	3300 ppm (10% LEL)
USA - NIOSH	NIOSH REL (TWA) (mg/m ³)	1900 mg/m ³
USA - NIOSH	NIOSH REL (TWA) [ppm]	1000 ppm
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	1900 mg/m ³
USA - OSHA	OSHA PEL (TWA) (ppm)	1000 ppm
butanone; ethyl methyl ketone (78-93-3)		
EU	IOELV TWA (mg/m ³)	600 mg/m ³
EU	IOELV TWA (ppm)	200 ppm
EU	IOELV STEL (mg/m ³)	900 mg/m ³

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butanone; ethyl methyl ketone (78-93-3)		
EU	IOELV STEL (ppm)	300 ppm
Austria	MAK [mg/m ³]	295 mg/m ³
Austria	MAK [ppm]	100 ppm
Austria	MAK Short time value [mg/m ³]	590 mg/m ³ (Butanone)
Austria	MAK Short time value [ppm]	200 ppm (Butanone)
Belgium	Limit value [mg/m ³]	600 mg/m ³
Belgium	Limit value [ppm]	200 ppm
Belgium	Short time value [mg/m ³]	900 mg/m ³
Belgium	Short time value	300 ppm
Bulgaria	OEL TWA (mg/m ³)	590 mg/m ³
Bulgaria	OEL STEL (mg/m ³)	885 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	600 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (ppm)	200 ppm
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m ³)	900 mg/m ³
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)	300 ppm
Cyprus	OEL TWA (mg/m ³)	600 mg/m ³
Cyprus	OEL TWA (ppm)	200 ppm
Cyprus	OEL STEL (mg/m ³)	900 mg/m ³
Cyprus	OEL STEL (ppm)	300 ppm
Czech Republic	Expoziční limity (PEL) (mg/m ³)	600 mg/m ³
Denmark	Grænseværdi (8 timer) (mg/m ³)	145 mg/m ³
Denmark	Grænseværdi (8 timer) (ppm)	50 ppm
Estonia	OEL TWA (mg/m ³)	600 mg/m ³
Estonia	OEL TWA (ppm)	200 ppm
Estonia	OEL STEL (mg/m ³)	900 mg/m ³
Estonia	OEL STEL (ppm)	300 ppm
Finland	HTP-arvo (15 min)	300 mg/m ³
Finland	HTP-arvo (15 min) (ppm)	100 ppm
France	VME [mg/m ³]	600 mg/m ³ (restrictive limit)
France	VME [ppm]	200 ppm (restrictive limit)
France	VLE [mg/m ³]	900 mg/m ³ (restrictive limit)
France	VLE [ppm]	300 ppm (restrictive limit)
Germany	Occupational exposure limit value (mg/m ³)	600 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	Occupational exposure limit value (ppm)	200 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	TRGS 903 Biological limit value	2 mg/l Parameter: 2-Butanone - Medium: urine - Sampling time: end of shift
Gibraltar	8h mg/m ³	600 mg/m ³
Gibraltar	8h ppm	200 ppm
Gibraltar	Short-term mg/m ³	900 mg/m ³
Gibraltar	Short-term ppm	300 ppm
Greece	OEL TWA (mg/m ³)	600 mg/m ³
Greece	OEL TWA (ppm)	200 ppm

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butanone; ethyl methyl ketone (78-93-3)		
Greece	OEL STEL (mg/m ³)	900 mg/m ³
Greece	OEL STEL (ppm)	300 ppm
Hungary	AK-érték	600 mg/m ³
Hungary	CK-érték	900 mg/m ³
Ireland	OEL (8 hours ref) (mg/m ³)	600 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	200 ppm
Ireland	OEL (15 min ref) (mg/m ³)	900 mg/m ³
Ireland	OEL (15 min ref) (ppm)	300 ppm
Italy	OEL TWA (mg/m ³)	600 mg/m ³
Italy	OEL TWA (ppm)	200 ppm
Italy	OEL STEL (mg/m ³)	900 mg/m ³
Italy	OEL STEL (ppm)	300 ppm
Latvia	OEL TWA (mg/m ³)	200 mg/m ³
Latvia	OEL TWA (ppm)	67 ppm
Luxembourg	OEL TWA (mg/m ³)	600 mg/m ³
Luxembourg	OEL TWA (ppm)	200 ppm
Luxembourg	OEL STEL (mg/m ³)	900 mg/m ³
Luxembourg	OEL STEL (ppm)	300 ppm
Malta	OEL TWA (mg/m ³)	600 mg/m ³
Malta	OEL TWA (ppm)	200 ppm
Malta	OEL STEL (mg/m ³)	900 mg/m ³
Malta	OEL STEL (ppm)	300 ppm
Netherlands	Grenswaarde TGG 8H (mg/m ³)	590 mg/m ³
Netherlands	Grenswaarde TGG 15MIN (mg/m ³)	900 mg/m ³
Poland	NDS (mg/m ³)	450 mg/m ³
Poland	NDSch (mg/m ³)	900 mg/m ³
Portugal	OEL TWA (mg/m ³)	600 mg/m ³ (indicative limit value)
Portugal	OEL TWA (ppm)	200 ppm (indicative limit value)
Portugal	OEL STEL (mg/m ³)	900 mg/m ³ (indicative limit value)
Portugal	OEL STEL (ppm)	300 ppm (indicative limit value)
Romania	OEL TWA (mg/m ³)	600 mg/m ³
Romania	OEL TWA (ppm)	200 ppm
Romania	OEL STEL (mg/m ³)	900 mg/m ³
Romania	OEL STEL (ppm)	300 ppm
Slovakia	NPHV (priemerná) (mg/m ³)	600 mg/m ³
Slovakia	NPHV (priemerná) (ppm)	200 ppm
Slovakia	NPHV (Hraničná) (mg/m ³)	900 mg/m ³
Slovenia	OEL TWA (mg/m ³)	600 mg/m ³
Slovenia	OEL TWA (ppm)	200 ppm
Slovenia	OEL STEL (mg/m ³)	900 mg/m ³
Slovenia	OEL STEL (ppm)	300 ppm
Spain	VLA-ED (mg/m ³)	600 mg/m ³ (indicative limit value)
Spain	VLA-ED (ppm)	200 ppm (indicative limit value)

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Spain	VLA-EC (mg/m ³)	900 mg/m ³
Spain	VLA-EC (ppm)	300 ppm
Sweden	nivågränsvärde (NVG) (mg/m ³)	150 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	50 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	900 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	300 ppm
United Kingdom	WEL TWA (mg/m ³)	600 mg/m ³
United Kingdom	WEL TWA (ppm)	200 ppm
United Kingdom	WEL STEL (mg/m ³)	899 mg/m ³
United Kingdom	WEL STEL [ppm]	300 ppm
Norway	Grenseverdier (AN) (mg/m ³)	220 mg/m ³
Norway	Grenseverdier (AN) (ppm)	75 ppm
Norway	Grenseverdier (Korttidsverdi) (mg/m ³)	275 mg/m ³ (value calculated)
Norway	Grenseverdier (Korttidsverdi) (ppm)	112,5 ppm (value calculated)
Switzerland	MAK (mg/m ³)	590 mg/m ³
Switzerland	MAK (ppm)	200 ppm
Switzerland	KZGW (mg/m ³)	590 mg/m ³
Switzerland	KZGW (ppm)	200 ppm
Australia	TWA (mg/m ³)	445 mg/m ³
Australia	TWA (ppm)	150 ppm
Australia	STEL (mg/m ³)	890 mg/m ³
Australia	STEL (ppm)	300 ppm
Canada (Quebec)	VECD (mg/m ³)	300 mg/m ³
Canada (Quebec)	VECD (ppm)	100 ppm
Canada (Quebec)	VEMP (mg/m ³)	150 mg/m ³
Canada (Quebec)	VEMP (ppm)	50 ppm
USA - ACGIH	ACGIH TWA (ppm)	200 ppm
USA - ACGIH	ACGIH STEL (ppm)	300 ppm
USA - IDLH	US IDLH (ppm)	3000 ppm
USA - NIOSH	NIOSH REL (TWA) (mg/m ³)	590 mg/m ³
USA - NIOSH	NIOSH REL (TWA) [ppm]	200 ppm
USA - NIOSH	NIOSH REL (STEL) (mg/m ³)	885 mg/m ³
USA - NIOSH	NIOSH REL (STEL) [ppm]	300 ppm
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	590 mg/m ³
USA - OSHA	OSHA PEL (TWA) (ppm)	200 ppm
propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)		
Austria	MAK [mg/m ³]	500 mg/m ³
Austria	MAK [ppm]	200 ppm
Austria	MAK Short time value [mg/m ³]	2000 mg/m ³ 2000 mg/m ³ (STEL for large casting valid until December 31, 2013)
Austria	MAK Short time value [ppm]	800 ppm 800 ppm (STEL for large casting valid until December 31, 2013)
Belgium	Limit value [mg/m ³]	500 mg/m ³
Belgium	Limit value [ppm]	200 ppm

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propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)		
Belgium	Short time value [mg/m ³]	1000 mg/m ³
Belgium	Short time value	400 ppm
Bulgaria	OEL TWA (mg/m ³)	980 mg/m ³
Bulgaria	OEL STEL (mg/m ³)	1225 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	999 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (ppm)	400 ppm
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m ³)	1250 mg/m ³
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)	500 ppm
Czech Republic	Expoziční limity (PEL) (mg/m ³)	500 mg/m ³
Denmark	Grænseværdi (8 timer) (mg/m ³)	490 mg/m ³
Denmark	Grænseværdi (8 timer) (ppm)	200 ppm
Estonia	OEL TWA (mg/m ³)	350 mg/m ³
Estonia	OEL TWA (ppm)	150 ppm
Estonia	OEL STEL (mg/m ³)	600 mg/m ³
Estonia	OEL STEL (ppm)	250 ppm
Finland	HTP-arvo (8h) (mg/m ³)	500 mg/m ³ (Propanol)
Finland	HTP-arvo (8h) (ppm)	200 ppm (Propanol)
Finland	HTP-arvo (15 min)	620 mg/m ³
Finland	HTP-arvo (15 min) (ppm)	250 ppm
France	VLE [mg/m ³]	980 mg/m ³
France	VLE [ppm]	400 ppm
Germany	Occupational exposure limit value (mg/m ³)	500 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	Occupational exposure limit value (ppm)	200 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	TRGS 903 Biological limit value	25 mg/l Parameter: Acetone - Medium: whole blood - Sampling time: end of shift 25 mg/l Parameter: Acetone - Medium: urine - Sampling time: end of shift
Greece	OEL TWA (mg/m ³)	980 mg/m ³
Greece	OEL TWA (ppm)	400 ppm
Greece	OEL STEL (mg/m ³)	1225 mg/m ³
Greece	OEL STEL (ppm)	500 ppm
Hungary	AK-érték	500 mg/m ³
Hungary	CK-érték	1000 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	200 ppm
Ireland	OEL (15 min ref) (ppm)	400 ppm
Latvia	OEL TWA (mg/m ³)	350 mg/m ³
Lithuania	IPRV (mg/m ³)	350 mg/m ³
Lithuania	IPRV (ppm)	150 ppm
Lithuania	TPRV (mg/m ³)	600 mg/m ³
Lithuania	TPRV (ppm)	250 ppm

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Poland	NDS (mg/m ³)	900 mg/m ³
Poland	NDSCh (mg/m ³)	1200 mg/m ³
Portugal	OEL TWA (ppm)	200 ppm
Portugal	OEL STEL (ppm)	400 ppm
Romania	OEL TWA (mg/m ³)	200 mg/m ³
Romania	OEL TWA (ppm)	81 ppm
Romania	OEL STEL (mg/m ³)	500 mg/m ³
Romania	OEL STEL (ppm)	203 ppm
Slovakia	NPHV (priemerná) (mg/m ³)	500 mg/m ³
Slovakia	NPHV (priemerná) (ppm)	200 ppm
Slovakia	NPHV (Hraničná) (mg/m ³)	1000 mg/m ³
Slovenia	OEL TWA (mg/m ³)	500 mg/m ³
Slovenia	OEL TWA (ppm)	200 ppm
Slovenia	OEL STEL (mg/m ³)	1000 mg/m ³
Slovenia	OEL STEL (ppm)	400 ppm
Spain	VLA-ED (mg/m ³)	500 mg/m ³ (the partial or complete commercialization or use of this substance as a phytosanitary or biocide compound is prohibited)
Spain	VLA-ED (ppm)	200 ppm (the partial or complete commercialization or use of this substance as a phytosanitary or biocide compound is prohibited)
Spain	VLA-EC (mg/m ³)	1000 mg/m ³
Spain	VLA-EC (ppm)	400 ppm
Sweden	nivågränsvärde (NVG) (mg/m ³)	350 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	150 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	600 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	250 ppm
United Kingdom	WEL TWA (mg/m ³)	999 mg/m ³
United Kingdom	WEL TWA (ppm)	400 ppm
United Kingdom	WEL STEL (mg/m ³)	1250 mg/m ³
United Kingdom	WEL STEL [ppm]	500 ppm
Norway	Grenseverdier (AN) (mg/m ³)	245 mg/m ³
Norway	Grenseverdier (AN) (ppm)	100 ppm
Norway	Grenseverdier (Korttidsverdi) (mg/m ³)	306,25 mg/m ³ (value calculated)
Norway	Grenseverdier (Korttidsverdi) (ppm)	125 ppm (value calculated)
Switzerland	MAK (mg/m ³)	500 mg/m ³
Switzerland	MAK (ppm)	200 ppm
Switzerland	KZGW (mg/m ³)	1000 mg/m ³
Switzerland	KZGW (ppm)	400 ppm
Australia	TWA (mg/m ³)	983 mg/m ³
Australia	TWA (ppm)	400 ppm
Australia	STEL (mg/m ³)	1230 mg/m ³
Australia	STEL (ppm)	500 ppm
Canada (Quebec)	VECD (mg/m ³)	1230 mg/m ³
Canada (Quebec)	VECD (ppm)	500 ppm
Canada (Quebec)	VEMP (mg/m ³)	985 mg/m ³

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Canada (Quebec)	VEMP (ppm)	400 ppm
USA - ACGIH	ACGIH TWA (ppm)	200 ppm
USA - ACGIH	ACGIH STEL (ppm)	400 ppm
USA - IDLH	US IDLH (ppm)	2000 ppm (10% LEL)
USA - NIOSH	NIOSH REL (TWA) (mg/m ³)	980 mg/m ³
USA - NIOSH	NIOSH REL (TWA) [ppm]	400 ppm
USA - NIOSH	NIOSH REL (STEL) (mg/m ³)	1225 mg/m ³
USA - NIOSH	NIOSH REL (STEL) [ppm]	500 ppm
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	980 mg/m ³
USA - OSHA	OSHA PEL (TWA) (ppm)	400 ppm

Additional information : Recommended monitoring procedures : Personal air monitoring. Room air monitoring


8.2. Exposure controls

- Engineering measure(s) : Provide adequate ventilation. Organisational measures to prevent /limit releases, dispersion and exposure. See Section 7 for information on safe handling. Take precautionary measures against static discharges. Ensure equipment is adequately earthed. Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.
- Personal protective equipment : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- Hand protection : Wear chemically resistant gloves (tested to EN374) . Suitable material: Butyl rubber. Viton ®. Breakthrough time : Not determined. Thickness : Not determined. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.
- Eye protection : Use suitable eye protection (EN166): goggles
- Body protection : Wear suitable protective clothing
- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment. Half-face mask (DIN EN 140). full face mask (DIN EN 136). Filter type: A (EN 141). The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used. (EN 137)
- Thermal hazard protection : Not required for normal conditions of use. Use dedicated equipment.
- Environmental exposure controls : Avoid release to the environment. Comply with applicable Community environmental protection legislation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Appearance : Liquid.
- Colour : Blue.
- Odour : Characteristic.
- Odour threshold : No data available
- pH : No data available
- Relative evaporation rate (butylacetate=1) : No data available
- Melting / freezing point : No data available
- Freezing point : No data available

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Initial boiling point and boiling range	: > 35 °C
Flash point	: 11,5 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable, liquid
Vapour pressure	: No data available
Vapour density	: No data available
Relative density	: 0,789
Density	: 789 kg/m ³
Solubility	: Water: Soluble
Partition coefficient n-octanol/water	: No data available
Kinematic viscosity	: No data available
Dynamic viscosity	: 1,4 mPa·s
Explosive properties	: Not applicable. The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.
Oxidising properties	: Not applicable. The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with oxidising properties.
Explosive limits	: No data available
9.2. Other information	
VOC content	: ≥ 90 %

SECTION 10: Stability and reactivity

10.1. Reactivity

Highly flammable liquid and vapour. Reference to other sections: 10.4 & 10.5.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Vapours may form explosive mixture with air. Reacts violently with : Strong oxidizing agents. Strong acids.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. See Section 7 for information on safe handling.

10.5. Incompatible materials

oxidising substances. Strong acids. See Section 7 for information on safe handling.

10.6. Hazardous decomposition products


Reference to other sections 5.2.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified (Based on available data, the classification criteria are not met)

ethanol; ethyl alcohol (64-17-5)	
LD50/oral/rat	> 6000 mg/kg
LD50/dermal/rabbit	> 2000 mg/kg
LC50/inhalation/4h/rat	> 127,4 mg/l
butanone; ethyl methyl ketone (78-93-3)	
LD50/oral/rat	> 2000 mg/kg
LD50/dermal/rabbit	> 2000 mg/kg

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butanone; ethyl methyl ketone (78-93-3)	
LC50/inhalation/4h/rat	32 mg/l
LC50/inhalation/4h/rat (ppm)	11700 ppm/4h

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
LD50/oral/rat	> 2000 mg/kg
LD50/dermal/rabbit	> 10000 mg/kg
LC50/inhalation/4h/rat	46 – 73 mg/l/4h
LC50/inhalation/4h/rat (ppm)	10000 ppm

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)
pH: No data available

Serious eye damage/irritation : Causes serious eye irritation.
pH: No data available

Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)

STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)

ethanol; ethyl alcohol (64-17-5)	
NOAEL (oral, rat)	13800 mg/kg bodyweight (OECD 416)
NOAEC (inhalation, rat, gas)	> 16000 ppmv/4h

STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

butanone; ethyl methyl ketone (78-93-3)	
NOAEC (inhalation, rat, gas, 90 days)	2500 ppmv/6h/day 90d, 6h/d, 5d/wk

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

Heatcover (1L, 5L, 25L, IBC-EX)	
Kinematic viscosity	1,774 mm ² /s

Other information : Symptoms related to the physical, chemical and toxicological characteristics. For further information see section 4.

SECTION 12: Ecological information


12.1. Toxicity

Environmental properties : According to the criteria of the European classification and labelling system, the substance/the product has not to be labelled as "dangerous for the environment".

ethanol; ethyl alcohol (64-17-5)	
LC50 fish 1	> 10000 mg/l Oncorhynchus mykiss (Rainbow trout)
EC50 Daphnia 1	9268 – 14221 mg/l (48h)
LC50 fish 2	> 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Daphnia 2	2 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50, Fish, Leuciscus idus (golden orfe)	8140 mg/l (48 hours)
IC5, algae, Scenedesmus quadricauda	5000 mg/l (168 hours)
EC5, Bacteria, Pseudomonas putida	6500 mg/l (16 hours)

butanone; ethyl methyl ketone (78-93-3)	
LC50 fish 1	> 2000 mg/l Pimephales promelas (fathead minnow)
EC50 Daphnia 1	> 300 mg/l Daphnia magna (Big water flea)
EC50 Daphnia 2	5091 mg/l (Exposure time: 48 h - Species: Daphnia magna)

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
LC50 fish 1	> 2000 mg/l (96 h)
EC50 Daphnia 1	> 2000 mg/l (48 h)

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propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
LC50 fish 2	11130 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
ErC50 (algae)	> 1000 mg/l (72h)

12.2. Persistence and degradability

ethanol; ethyl alcohol (64-17-5)	
Persistence and degradability	Readily biodegradable.
BOD (% of ThOD)	(BOD20=84%)

butanone; ethyl methyl ketone (78-93-3)	
Persistence and degradability	Readily biodegradable.

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
Persistence and degradability	Readily biodegradable.

12.3. Bioaccumulative potential

Heatcover (1L, 5L, 25L, IBC-EX)	
Partition coefficient n-octanol/water	No data available
Bioaccumulative potential	No data available.

ethanol; ethyl alcohol (64-17-5)	
Partition coefficient n-octanol/water	-0,32
Bioaccumulative potential	Low potential.

butanone; ethyl methyl ketone (78-93-3)	
Partition coefficient n-octanol/water	0,3

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
Partition coefficient n-octanol/water	0,05 (at 25 °C)
Bioaccumulative potential	Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected.

12.4. Mobility in soil

Heatcover (1L, 5L, 25L, IBC-EX)	
Mobility in soil	No data available

ethanol; ethyl alcohol (64-17-5)	
Ecology - soil	The product evaporates from soil.

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
Ecology - soil	soluble in water.


12.5. Results of PBT and vPvB assessment

Heatcover (1L, 5L, 25L, IBC-EX)	
Results of PBT assessment	The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

Component	
ethanol; ethyl alcohol (64-17-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

Other adverse effects : No data available.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations

: Avoid release to the environment. Dispose of empty containers and wastes safely. See Section 7 for information on safe handling. Refer to manufacturer/supplier for information on recovery/recycling. Recycling is preferred to disposal or incineration. If recycling is not possible, eliminate in accordance with local valid waste disposal regulations. Handle contaminated packages in the same way as the substance itself. Dispose of contaminated materials in accordance with current regulations. Packaging contaminated by the product : Do not pierce or burn, even after use. Never use pressure to empty container.

European waste catalogue (2001/573/EC, 75/442/EEC, 91/689/EEC)






: This material and its container must be disposed of as hazardous waste. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

The following Waste Codes are only suggestions:

15 01 10* packaging containing residues of or contaminated by dangerous substances

SECTION 14: Transport information

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


ADR	IMDG	IATA	ADN	RID
14.1. UN number				
1170	1170	1170	1170	1170
14.2. UN proper shipping name				
ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)	Ethanol solution	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
Transport document description				
UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, II, (D/E)	UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, II	UN 1170 Ethanol solution, 3, II	UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, II	UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, II
14.3. Transport hazard class(es)				
3	3	3	3	3
				
14.4. Packing group				
II	II	II	II	II
14.5. Environmental hazards				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary information available				

14.6. Special precautions for user

Special precautions for user : No data available

- Overland transport

Classification code (ADR) : F1
 Special provisions : 144, 601
 Limited quantities (ADR) : 11
 Excepted quantities (ADR) : E2
 Packing instructions (ADR) : P001, IBC02, R001

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Mixed packing provisions (ADR) : MP19
 Portable tank and bulk container instructions (ADR) : T4
 Portable tank and bulk container special provisions (ADR) : TP1
 Tank code (ADR) : LGBF
 Vehicle for tank carriage : FL
 Transport category (ADR) : 2
 Special provisions for carriage - Operation (ADR) : S2, S20
 Hazard identification number (Kemler No.) : 33
 Orange plates :



Tunnel restriction code : D/E
 EAC code : •2YE

- Transport by sea


Special provisions (IMDG) : 144
 Limited quantities (IMDG) : 1 L
 Excepted quantities (IMDG) : E2
 Packing instructions (IMDG) : P001
 IBC packing instructions (IMDG) : IBC02
 Tank instructions (IMDG) : T4
 Tank special provisions (IMDG) : TP1
 EmS-No. (Fire) : F-E
 EmS-No. (Spillage) : S-D
 Stowage category (IMDG) : A

- Air transport

PCA Excepted quantities (IATA) : E2
 PCA Limited quantities (IATA) : Y341
 PCA limited quantity max net quantity (IATA) : 1L
 PCA packing instructions (IATA) : 353
 PCA max net quantity (IATA) : 5L
 CAO packing instructions (IATA) : 364
 CAO max net quantity (IATA) : 60L
 Special provisions (IATA) : A3, A58, A180
 ERG code (IATA) : 3L

- Inland waterway transport

Classification code (ADN) : F1
 Special provisions (ADN) : 144, 601
 Limited quantities (ADN) : 1 L
 Excepted quantities (ADN) : E2
 Equipment required (ADN) : PP, EX, A
 Ventilation (ADN) : VE01
 Number of blue cones/lights (ADN) : 1

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- Rail transport

Classification code (RID) : F1
 Special provisions (RID) : 144, 601
 Limited quantities (RID) : 1L
 Excepted quantities (RID) : E2
 Packing instructions (RID) : P001, IBC02, R001
 Mixed packing provisions (RID) : MP19
 Portable tank and bulk container instructions (RID) : T4
 Portable tank and bulk container special provisions (RID) : TP1
 Tank codes for RID tanks (RID) : LGBF
 Transport category (RID) : 2
 Colis express (express parcels) (RID) : CE7
 Hazard identification number (RID) : 33

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Code: IBC : 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

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3(a) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F	Heatcover (1L, 5L, 25L, IBC-EX) ; ethanol; ethyl alcohol ; butanone; ethyl methyl ketone ; propan-2-ol; isopropyl alcohol; isopropanol
3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	Heatcover (1L, 5L, 25L, IBC-EX) ; ethanol; ethyl alcohol ; butanone; ethyl methyl ketone ; propan-2-ol; isopropyl alcohol; isopropanol
40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.	Heatcover (1L, 5L, 25L, IBC-EX) ; ethanol; ethyl alcohol ; butanone; ethyl methyl ketone ; propan-2-ol; isopropyl alcohol; isopropanol

Contains no substance on the REACH candidate list


Contains no REACH Annex XIV substances

VOC content : ≥ 90 %

15.1.2. National regulations

France

No ICPE	Installations classées Désignation de la rubrique	Code Régime	Rayon
4330.text	Liquides inflammables de catégorie 1, liquides inflammables maintenus à une température supérieure à leur point d'ébullition, autres liquides de point éclair inférieur ou égal à 60° C maintenus à une température supérieure à leur température d'ébullition ou dans des conditions particulières de traitement, telles qu'une pression ou une température élevée (1).		

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4330.1	<p>La quantité totale susceptible d'être présente dans les installations y compris dans les cavités souterraines étant :</p> <p>1. Supérieure ou égale à 10 t (1) Conformément à la section 2.6.4.5 de l'annexe I du règlement (CE) n° 1272/2008, il n'est pas nécessaire de classer les liquides ayant un point d'éclair supérieur à 35° C dans la catégorie 3 si l'épreuve de combustion entretenue du point L 2, partie III, section 32, du Manuel d'épreuves et de critères des Nations unies a donné des résultats négatifs. Toutefois, cette remarque n'est pas valable en cas de température ou de pression élevée, et ces liquides doivent alors être classés dans cette catégorie. Quantité seuil bas au sens de l'article R. 511-10 : 10 t. Quantité seuil haut au sens de l'article R. 511-10 : 50 t.</p>	A	2
4330.2	<p>La quantité totale susceptible d'être présente dans les installations y compris dans les cavités souterraines étant :</p> <p>2. Supérieure ou égale à 1 t mais inférieure à 10 t (1) Conformément à la section 2.6.4.5 de l'annexe I du règlement (CE) n° 1272/2008, il n'est pas nécessaire de classer les liquides ayant un point d'éclair supérieur à 35° C dans la catégorie 3 si l'épreuve de combustion entretenue du point L 2, partie III, section 32, du Manuel d'épreuves et de critères des Nations unies a donné des résultats négatifs. Toutefois, cette remarque n'est pas valable en cas de température ou de pression élevée, et ces liquides doivent alors être classés dans cette catégorie. Quantité seuil bas au sens de l'article R. 511-10 : 10 t. Quantité seuil haut au sens de l'article R. 511-10 : 50 t.</p>	DC	
4331.text	<p>Liquides inflammables de catégorie 2 ou catégorie 3 à l'exclusion de la rubrique 4330.</p> <p>La quantité totale susceptible d'être présente dans les installations y compris dans les cavités souterraines étant :</p>		
4331.1	<p>1. Supérieure ou égale à 1000 t Quantité seuil bas au sens de l'article R. 511-10 : 5 000 t. Quantité seuil haut au sens de l'article R. 511-10 : 50 000 t.</p>	A	2
4331.2	<p>2. Supérieure ou égale à 100 t mais inférieure à 1000 t Quantité seuil bas au sens de l'article R. 511-10 : 5 000 t. Quantité seuil haut au sens de l'article R. 511-10 : 50 000 t.</p>	E	
4331.3	<p>3. Supérieure ou égale à 50 t mais inférieure à 100 t Quantité seuil bas au sens de l'article R. 511-10 : 5 000 t. Quantité seuil haut au sens de l'article R. 511-10 : 50 000 t.</p>	DC	

Germany

Regulatory reference	: WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1)
German storage class (LGK)	: LGK 3 - Flammable liquids
Hazardous Incident Ordinance (12. BImSchV)	: Listed in the 12. BImSchV (Annex I) under: 1.2.5.3 Quantity threshold for operational area under § 1 para. 1 - Sentence 1: 5000000 kg - Sentence 2: 50000000 kg
TA Luft	: 5.2.5 Organic Substances

Netherlands

Waterbezwaarlijkheid	: B (4) - Weinig schadelijk voor in het water levende organismen
SZW-lijst van kankerverwekkende stoffen	: ethanol; ethyl alcohol is listed
SZW-lijst van mutagene stoffen	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: ethanol; ethyl alcohol is listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: ethanol; ethyl alcohol is listed

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NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : ethanol; ethyl alcohol is listed

Denmark

Class for fire hazard : Class I-1
 Store unit : 1 liter
 Classification remarks : F <Flam. Liq. 2>; Emergency management guidelines for the storage of flammable liquids must be followed

15.2. Chemical safety assessment

Not applicable


For the following substances of this mixture a chemical safety assessment has been carried out
ethanol; ethyl alcohol propan-2-ol; isopropyl alcohol; isopropanol

SECTION 16: Other information

Abbreviations and acronyms:

ABM = Algemene beoordelingsmethodiek
ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin
ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC
IATA = International Air Transport Association
IMDG = International Maritime Dangerous Goods Code
LEL = Lower Explosive Limit/Lower Explosion Limit
UEL = Upper Explosion Limit/Upper Explosive Limit
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
BTT = Breakthrough time (maximum wearing time)
DMEL = Derived Minimal Effect level
DNEL = Derived No Effect Level
EC50 = Median Effective Concentration
EL50 = Median effective level
ErC50 = EC50 in terms of reduction of growth rate
ErL50 = EL50 in terms of reduction of growth rate
EWC = European waste catalogue
LC50 = Median lethal concentration
LD50 = Median lethal dose
LL50 = Median lethal level
NA = Not applicable
NOEC = No observed effect concentration
NOEL: no-observed-effect level
NOELR = No observed effect loading rate
NOAEC = No observed adverse effect concentration
NOAEL = No observed adverse effect level
N.O.S. = Not Otherwise Specified
OEL = Occupational Exposure Limits - Short Term Exposure Limits (STELs)
PNEC = Predicted No Effect Concentration
Quantitative structure-activity relationship (QSAR)
STOT = Specific Target Organ Toxicity
TWA = time weighted average
VOC = Volatile organic compounds
WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)

Sources of key data used to compile the datasheet : ECHA (European Chemicals Agency), supplier sds, IOLI

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Training advice : Training staff on good practice. Manipulations are to be done only by qualified and authorised persons.

Other information : Classification - Assessment method: CLP Calculation method (Article 9).
Physicochemical hazard assessment: Information given is based on tests on the mixture itself.

Full text of H- and EUH-statements:

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830
Classification according to Regulation (EC) No. 1272/2008 [CLP]
Labelling according to Regulation (EC) No. 1272/2008 [CLP]

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