

LDP-1000

Version number: 5.0
Replaces version of: 2014-01-07 (4)

Revision: 2022-05-12

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

1.1 Product identifier

Trade name	LDP-1000
Registration number (REACH)	Not relevant (mixture)
Unique formula identifier (UFI)	9C00-T0DJ-800C-AV5Y

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

Relevant identified uses	For filling, mounting and insulating holes and crevices Professional use
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1.3 Details of the supplier of the safety data sheet

Baushield Lucht- & Waterdicht Bouwen B.V.
Milrooijseweg 47a
5258 KG Berlicum
Netherlands

Telephone: +31 (0) 73 503 5843
e-mail: info@baushield.com
Website: www.baushield.com

1.4 Emergency telephone number

Emergency information service	+31 (0) 73 503 5843 This number is only available during the following office hours: Mon-Fri 09:00 - 17:00
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Poison centre		
Country	Name	Telephone
Ireland	National Poisons Information Centre (NPIC)	Consumer: 01 809 2166 (8am-10pm) Healthcare Professional: 1 809 2566 (24/7)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Section	Hazard class	Category	Hazard class and category	Hazard statement
2.3	aerosols	1	Aerosol 1	H222,H229
3.2	skin corrosion/irritation	2	Skin Irrit. 2	H315
3.3	serious eye damage/eye irritation	2	Eye Irrit. 2	H319
3.4R	respiratory sensitisation	1	Resp. Sens. 1	H334
3.4S	skin sensitisation	1	Skin Sens. 1	H317
3.6	carcinogenicity	2	Carc. 2	H351
3.8R	specific target organ toxicity - single exposure (respiratory tract irritation)	3	STOT SE 3	H335
3.9	specific target organ toxicity - repeated exposure	2	STOT RE 2	H373

For full text of H-phrases: see SECTION 16

The most important adverse physicochemical, human health and environmental effects

Delayed or immediate effects can be expected after short or long-term exposure.

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2.2 Label elements

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

- signal word Danger

- pictograms

GHS02, GHS07,
GHS08



- hazard statements

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.

- precautionary statements

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.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

- hazardous ingredients for labelling

Contains: DIPHENYLMETHANEDIISOCYANATE, ISOMERS AND HOMOLOGUES.

Labelling according to Regulation (EC) No. 1907/2006 (REACH) Annex XVII

Restriction R74:

-"As from 24 August 2023 adequate training is required before industrial or professional use."

Additional labelling according to Directive 75/324/EEC relating to aerosol dispensers

Extremely flammable. Pressurized container: may burst if heated. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

2.3 Other hazards

There is no additional information.

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

The product does not contain (other) ingredients which are classified according to present knowledge of the supplier and contribute to the classification of the product and hence require reporting in this section.

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
dimethyl ether	CAS No 115-10-6 EC No 204-065-8 Index No 603-019-00-8 REACH Reg. No 01-2119472128-37-xxxx	≥ 10 – < 20	Flam. Gas 1A / H220 Press. Gas C / H280	 	GHS-HC IOELV U(b)
Reaction products of phosphoryl trichloride and 2-methyloxirane	CAS No 1244733-77-4 EC No 807-935-0 REACH Reg. No 01-2119486772-26-xxxx	≥ 10 – < 20	Acute Tox. 4 / H302 Aquatic Chronic 3 / H412		
DIPHENYLMETHANEDIISOCYANATE, ISOMERS AND HOMOLOGUES	CAS No 32055-14-4 EC No 500-079-6 REACH Reg. No 01-2119457024-46-xxxx	≥ 10 – < 20	Acute Tox. 4 / H332 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Resp. Sens. 1 / H334 Skin Sens. 1 / H317 Carc. 2 / H351 STOT SE 3 / H335 STOT RE 2 / H373 EUH204	 	
2-methylpropane	CAS No 75-28-5 EC No 200-857-2 Index No 601-004-00-0 REACH Reg. No 01-2119485395-27-xxxx	≥ 5 – < 10	Flam. Gas 1A / H220 Press. Gas C / H280	 	C(a) GHS-HC U(b)
propane	CAS No 74-98-6 EC No 200-827-9 Index No 601-003-00-5 REACH Reg. No 01-2119486944-21-xxxx	≥ 2.5 – < 5	Flam. Gas 1A / H220 Press. Gas C / H280	 	GHS-HC U(b)

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Notes

C(a): Mixture of isomers
GHS-HC: Harmonised classification (the classification of the substance corresponds to the entry in the list according to 1272/2008/EC, Annex VI)
IOELV: Substance with a community indicative occupational exposure limit value
U(b): The allocation to the group 'compressed gas' is based on the physical state in which the gas is packaged

Name of sub-stance	Identifier	Specific Conc. Limits	M-Factors	ATE	Exposure route
Reaction products of phosphoryl trichloride and 2-methyloxirane	CAS No 1244733-77-4 EC No 807-935-0	-	-	632 mg/kg	oral
DIPHENYL-METHANEDIISOCYANATE, ISOMERS AND HOMOLOGUES	CAS No 32055-14-4 EC No 500-079-6	Skin Irrit. 2; H315: C ≥ 5 % Eye Irrit. 2; H319: C ≥ 5 % Resp. Sens. 1; H334: C ≥ 0.1 %	-	11 mg//4h 1.5 mg//4h	inhalation: vapour inhalation: dust/ mist

Remarks

All the percentages given are percentages by weight unless stated otherwise. For full text of H-phrases: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. In case of unconsciousness place person in the recovery position. Never give anything by mouth. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice.

Following inhalation

Provide fresh air. If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician.

Following skin contact

Wash with plenty of soap and water. Call a POISON CENTER/doctor.

Following eye contact

Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER/doctor.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Call a POISON CENTER or doctor if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Persons already sensitised to diisocyanates may develop allergic reactions when using this product: Asthmatic complaints, Breathing difficulties, Pulmonary irritation.

4.3 Indication of any immediate medical attention and special treatment needed

For specialist advice physicians should contact the poison centre.

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water mist; Foam; Dry extinguishing powder; Carbon dioxide (CO₂);
Co-ordinate firefighting measures to the fire surroundings.

Unsuitable extinguishing media

Water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

During fire hazardous fumes/smoke could be produced. Nitrogen oxides (NO_x). Carbon monoxide (CO). Carbon dioxide (CO₂).
Hydrogen cyanide (HCN, prussic acid).

5.3 Advice for firefighters

Keep containers cool with water spray. In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

Special protective equipment for firefighters

Self-contained breathing apparatus (EN 133). Standard protective clothing for firefighters.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety. Ventilate affected area.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases. Use personal protective equipment as required.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas. Ground/bond container and receiving equipment.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

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7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- flammability hazards

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. Protect from sunlight.

- incompatible substances or mixtures

Keep away from alkalis, oxidising substances, acids.

Control of effects

Protect against external exposure, such as

High temperatures. UV-radiation/sunlight.

Consideration of other advice

Store in a well-ventilated place. Keep container tightly closed.

- packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

7.3 Specific end use(s)

There is no additional information.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)									
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Notation	Source
EU	dimethyl ether	115-10-6	IOELV	1,000	1,920				2000/39/EC
IE	dimethyl ether	115-10-6	OELV	1,000	1,920				S.I. No. 619 of 2001
IE	propane	74-98-6	OELV					asphyx	S.I. No. 619 of 2001
IE	isobutane	75-28-5	OELV	1,000					S.I. No. 619 of 2001

Notation

asphyx simple asphyxiants

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

Relevant DNELs/DMELs/PNECs and other threshold levels

Relevant DNELs of components of the mixture						
Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Reaction products of phosphoryl trichloride and 2-methyloxirane	1244733-77-4	DNEL	8 mg/kg	human, dermal	worker (industry)	acute - systemic effects

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Relevant DNELs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Reaction products of phosphoryl trichloride and 2-methyloxirane	1244733-77-4	DNEL	4 mg/kg	human, dermal	consumer (private households)	acute - systemic effects
Reaction products of phosphoryl trichloride and 2-methyloxirane	1244733-77-4	DNEL	8.2 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Reaction products of phosphoryl trichloride and 2-methyloxirane	1244733-77-4	DNEL	22.6 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
Reaction products of phosphoryl trichloride and 2-methyloxirane	1244733-77-4	DNEL	2.91 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Reaction products of phosphoryl trichloride and 2-methyloxirane	1244733-77-4	DNEL	1.45 mg/m ³	human, inhalatory	consumer (private households)	chronic - systemic effects
Reaction products of phosphoryl trichloride and 2-methyloxirane	1244733-77-4	DNEL	5.6 mg/m ³	human, inhalatory	consumer (private households)	acute - systemic effects
Reaction products of phosphoryl trichloride and 2-methyloxirane	1244733-77-4	DNEL	1.04 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
Reaction products of phosphoryl trichloride and 2-methyloxirane	1244733-77-4	DNEL	0.52 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
Reaction products of phosphoryl trichloride and 2-methyloxirane	1244733-77-4	DNEL	2 mg/kg bw/day	human, oral	consumer (private households)	acute - systemic effects
DIPHENYLMETHANEDIISOCYANATE, ISOMERS AND HOMOLOGUES	32055-14-4	DNEL	0.05 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
DIPHENYLMETHANEDIISOCYANATE, ISOMERS AND HOMOLOGUES	32055-14-4	DNEL	0.1 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
DIPHENYLMETHANEDIISOCYANATE, ISOMERS AND HOMOLOGUES	32055-14-4	DNEL	0.025 mg/m ³	human, inhalatory	consumer (private households)	chronic - local effects

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Relevant DNELs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
DIPHENYLMETHANEDIISOCYANATE, ISOMERS AND HOMOLOGUES	32055-14-4	DNEL	0.05 mg/m ³	human, inhalatory	consumer (private households)	acute - local effects

Relevant PNECs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
dimethyl ether	115-10-6	PNEC	0.155 mg/l	aquatic organisms	freshwater	short-term (single instance)
dimethyl ether	115-10-6	PNEC	0.016 mg/l	aquatic organisms	marine water	short-term (single instance)
dimethyl ether	115-10-6	PNEC	160 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
dimethyl ether	115-10-6	PNEC	0.681 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
dimethyl ether	115-10-6	PNEC	0.069 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
dimethyl ether	115-10-6	PNEC	0.045 mg/kg	terrestrial organisms	soil	short-term (single instance)
Reaction products of phosphoryl trichloride and 2-methyloxirane	1244733-77-4	PNEC	11.6 mg/kg	aquatic organisms	water	short-term (single instance)
Reaction products of phosphoryl trichloride and 2-methyloxirane	1244733-77-4	PNEC	0.51 mg/l	aquatic organisms	water	intermittent release
Reaction products of phosphoryl trichloride and 2-methyloxirane	1244733-77-4	PNEC	0.32 mg/l	aquatic organisms	freshwater	short-term (single instance)
Reaction products of phosphoryl trichloride and 2-methyloxirane	1244733-77-4	PNEC	0.032 mg/l	aquatic organisms	marine water	short-term (single instance)
Reaction products of phosphoryl trichloride and 2-methyloxirane	1244733-77-4	PNEC	19.1 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Reaction products of phosphoryl trichloride and 2-methyloxirane	1244733-77-4	PNEC	11.5 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Reaction products of phosphoryl trichloride and 2-methyloxirane	1244733-77-4	PNEC	1.15 mg/kg	aquatic organisms	marine sediment	short-term (single instance)

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Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Reaction products of phosphoryl trichloride and 2-methyloxirane	1244733-77-4	PNEC	0.34 mg/kg	terrestrial organisms	soil	short-term (single instance)
DIPHENYLMETHANEDIISOCYANATE, ISOMERS AND HOMOLOGUES	32055-14-4	PNEC	1 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
DIPHENYLMETHANEDIISOCYANATE, ISOMERS AND HOMOLOGUES	32055-14-4	PNEC	3.7 µg/l	aquatic organisms	freshwater	short-term (single instance)
DIPHENYLMETHANEDIISOCYANATE, ISOMERS AND HOMOLOGUES	32055-14-4	PNEC	0.37 µg/l	aquatic organisms	marine water	short-term (single instance)
DIPHENYLMETHANEDIISOCYANATE, ISOMERS AND HOMOLOGUES	32055-14-4	PNEC	11.7 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
DIPHENYLMETHANEDIISOCYANATE, ISOMERS AND HOMOLOGUES	32055-14-4	PNEC	1.17 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
DIPHENYLMETHANEDIISOCYANATE, ISOMERS AND HOMOLOGUES	32055-14-4	PNEC	2.33 mg/kg	terrestrial organisms	soil	short-term (single instance)

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection



Use safety goggle with side protection (EN 166).

Skin protection



Protective clothing (EN 340 & EN ISO 13688).

- hand protection



Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. 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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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- type of material

Nitrile rubber, Viton

- material thickness

Use gloves with a minimum material thickness: $\geq 0,38$ mm.

- breakthrough times of the glove material

Use gloves with a minimum breakthrough times of the glove material: >480 minutes (permeation: level 6).

- other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling. Provide eyewash stations and safety showers at the workplace.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Full face mask/half mask/quarter mask (EN 136/140). Type: AX (gas filters and combined filters against low-boiling point organic compounds, colour code: Brown).

Environmental exposure controls

Take appropriate precautions to avoid uncontrolled release into the environment. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid, gaseous (foam aerosol)
Colour	various
Odour	characteristic
Melting point/freezing point	not determined
Boiling point or initial boiling point and boiling range	-161.5 °C at 1,013 hPa calculated value, referring to a component of the mixture
Evaporation rate	not determined
Flammability	flammable aerosol in accordance with GHS criteria
Lower and upper explosion limit	LEL: 3.3 vol% UEL: 26.2 vol% calculated value, referring to a component of the mixture
Flash point	-88.6 °C at 1,013 hPa (fluid) calculated value
Auto-ignition temperature	226 °C (auto-ignition temperature (liquids and gases)) calculated value, referring to a component of the mixture
Decomposition temperature	no data available
pH (value)	not determined
Kinematic viscosity	not relevant
Solubility(ies)	not determined

Partition coefficient n-octanol/water (log value)	this information is not available
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Vapour pressure	3,850 mmHg at 25 °C calculated value, referring to a component of the mixture
Density	1 g/cm ³ at 23 °C
Particle characteristics	not relevant (aerosol)

9.2 Other information

Information with regard to physical hazard classes

Aerosols

- components (flammable)	34.7 %
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Other safety characteristics

Propellant content	34.7 %
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SECTION 10: Stability and reactivity

10.1 Reactivity

The mixture contains reactive substance(s). Risk of ignition.

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

Do not spray on an open flame or other ignition source. Keep away from heat.

Hints to prevent fire or explosion

Protect from sunlight.

10.5 Incompatible materials

Oxidisers.

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

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

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Shall not be classified as acutely toxic.

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- acute toxicity of components of the mixture

Acute toxicity estimate (ATE) of components of the mixture			
Name of substance	CAS No	Exposure route	ATE
Reaction products of phosphoryl trichloride and 2-methyloxirane	1244733-77-4	oral	632 mg/kg
DIPHENYLMETHANEDIISOCYANATE, ISOMERS AND HOMOLOGUES	32055-14-4	inhalation: vapour	11 mg/l/4h
DIPHENYLMETHANEDIISOCYANATE, ISOMERS AND HOMOLOGUES	32055-14-4	inhalation: dust/mist	1.5 mg/l/4h

Acute toxicity of components of the mixture					
Name of substance	CAS No	Exposure route	Endpoint	Value	Species
dimethyl ether	115-10-6	inhalation: gas	LC50	164,000 ppmV/4h	rat
Reaction products of phosphoryl trichloride and 2-methyloxirane	1244733-77-4	oral	LD50	632 mg/kg	rat
Reaction products of phosphoryl trichloride and 2-methyloxirane	1244733-77-4	inhalation: dust/mist	LC50	>7 mg/l/4h	rat
Reaction products of phosphoryl trichloride and 2-methyloxirane	1244733-77-4	dermal	LD50	>2,000 mg/kg	rat
DIPHENYLMETHANEDIISOCYANATE, ISOMERS AND HOMOLOGUES	32055-14-4	oral	LD50	>2,000 mg/kg	rat
DIPHENYLMETHANEDIISOCYANATE, ISOMERS AND HOMOLOGUES	32055-14-4	inhalation: dust/mist	LC50	368 mg/m ³ /4h	rat
DIPHENYLMETHANEDIISOCYANATE, ISOMERS AND HOMOLOGUES	32055-14-4	dermal	LD50	>9,400 mg/kg	rabbit

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Suspected of causing cancer.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

May cause respiratory irritation.

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Specific target organ toxicity - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

11.2 Information on other hazards

There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

Aquatic toxicity (acute) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
dimethyl ether	115-10-6	LC50	>4.1 g/l	fish	96 h
dimethyl ether	115-10-6	EC50	>4.4 g/l	aquatic invertebrates	48 h
dimethyl ether	115-10-6	NOEC	≥4.1 g/l	fish	96 h
Reaction products of phosphoryl trichloride and 2-methyloxirane	1244733-77-4	LC50	51 mg/l	fish	96 h
Reaction products of phosphoryl trichloride and 2-methyloxirane	1244733-77-4	EC50	131 mg/l	aquatic invertebrates	48 h
Reaction products of phosphoryl trichloride and 2-methyloxirane	1244733-77-4	ErC50	82 mg/l	algae	72 h
Reaction products of phosphoryl trichloride and 2-methyloxirane	1244733-77-4	NOEC	9.8 mg/l	fish	96 h
Reaction products of phosphoryl trichloride and 2-methyloxirane	1244733-77-4	growth rate (Er-Cx) 10%	42 mg/l	algae	72 h
DIPHENYLMETHANEDIISOCYANATE, ISOMERS AND HOMOLOGUES	32055-14-4	LC50	>1,000 mg/l	fish	96 h
DIPHENYLMETHANEDIISOCYANATE, ISOMERS AND HOMOLOGUES	32055-14-4	EC50	129.7 mg/l	aquatic invertebrates	24 h
2-methylpropane	75-28-5	LC50	49.9 mg/l	fish	96 h
2-methylpropane	75-28-5	EC50	19.37 mg/l	algae	96 h
propane	74-98-6	LC50	49.9 mg/l	fish	96 h
propane	74-98-6	EC50	19.37 mg/l	algae	96 h

Aquatic toxicity (chronic) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Reaction products of phosphoryl trichloride and 2-methyloxirane	1244733-77-4	LC50	98 mg/l	fish	120 h
Reaction products of phosphoryl trichloride and 2-methyloxirane	1244733-77-4	EC50	40 mg/l	aquatic invertebrates	21 d

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Aquatic toxicity (chronic) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Reaction products of phosphoryl trichloride and 2-methyloxirane	1244733-77-4	NOEC	32 mg/l	aquatic invertebrates	21 d
Reaction products of phosphoryl trichloride and 2-methyloxirane	1244733-77-4	growth (EbCx) 10%	191 mg/l	microorganisms	3 h
DIPHENYLMETHANEDIISOCYANATE, ISOMERS AND HOMOLOGUES	32055-14-4	ErC50	>1,640 mg/l	algae	3 d
DIPHENYLMETHANEDIISOCYANATE, ISOMERS AND HOMOLOGUES	32055-14-4	EC50	>100 mg/l	microorganisms	3 h
DIPHENYLMETHANEDIISOCYANATE, ISOMERS AND HOMOLOGUES	32055-14-4	NOEC	≥10 mg/l	aquatic invertebrates	21 d

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties

None of the ingredients are listed.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment.

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

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SECTION 14: Transport information

14.1 UN number or ID number

ADR/RID	UN 1950
IMDG-Code	UN 1950
ICAO-TI	UN 1950

14.2 UN proper shipping name

ADR/RID	AEROSOLS flammable
IMDG-Code	AEROSOLS
ICAO-TI	Aerosols, flammable

14.3 Transport hazard class(es)

ADR/RID	2 (2.1)
IMDG-Code	2.1
ICAO-TI	2.1

14.4 Packing group

not assigned

14.5 Environmental hazards

non-environmentally hazardous acc. to the dangerous goods regulations

14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

14.7 Maritime transport in bulk according to IMO instruments

No data available.

Information for each of the UN Model Regulations

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR) - additional information

Classification code	5F
Danger label(s)	2.1



Special provisions (SP)	190, 327, 344, 625
Excepted quantities (EQ)	E0
Limited quantities (LQ)	1 L
Transport category (TC)	2
Tunnel restriction code (TRC)	D

Regulations concerning the International Carriage of Dangerous Goods by Rail (RID) - additional information

Classification code	5F
Danger label(s)	2.1



Special provisions (SP)	190, 327, 344, 625
Excepted quantities (EQ)	E0

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Limited quantities (LQ)	1 L
Transport category (TC)	2
Hazard identification No	23

International Maritime Dangerous Goods Code (IMDG) - additional information

Marine pollutant	-
Danger label(s)	2.1



Special provisions (SP)	63, 190, 277, 327, 344, 381, 959
Excepted quantities (EQ)	E0
Limited quantities (LQ)	1 L
EmS	F-D, S-U
Stowage category	-

International Civil Aviation Organization (ICAO-IATA/DGR) - additional information

Danger label(s)	2.1
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Special provisions (SP)	A145, A167
Excepted quantities (EQ)	E0
Limited quantities (LQ)	30 kg

SECTION 15: Regulatory information

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

Relevant provisions of the European Union (EU)

Restrictions according to REACH, Annex XVII

Name	Name acc. to inventory	Restriction	No
2-methylpropane	flammable / pyrophoric	R40	40
propane	flammable / pyrophoric	R40	40
Reaction products of phosphoryl trichloride and 2-methyloxirane	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC	R3	3
dimethyl ether	flammable / pyrophoric	R40	40
DIPHENYLMETHANEDIISOCYANATE, ISOMERS AND HOMOLOGUES	diisocyanates	R74	74
DIPHENYLMETHANEDIISOCYANATE, ISOMERS AND HOMOLOGUES	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC	R3	3
DIPHENYLMETHANEDIISOCYANATE, ISOMERS AND HOMOLOGUES	substances in tattoo inks and permanent make-up	R75	75

Legend

R3

- Shall not be used in:
 - ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ash-trays,
 - tricks and jokes,
 - games for one or more participants, or any article intended to be used as such, even with ornamental aspects,
- Articles not complying with paragraph 1 shall not be placed on the market.

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3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:
— can be used as fuel in decorative oil lamps for supply to the general public, and
— present an aspiration hazard and are labelled with H304.
4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).
5. Without prejudice to the implementation of other Union provisions relating to the classification, labelling and packaging of substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:
- (a) lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil – or even sucking the wick of lamps – may lead to life-threatening lung damage";
- (b) grill lighter fluids, labelled with H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: 'Just a sip of grill lighter fluid may lead to life threatening lung damage';
- (c) lamps oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.;
- R40
1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:
- metallic glitter intended mainly for decoration,
 - artificial snow and frost,
 - 'whoopee' cushions,
 - silly string aerosols,
 - imitation excrement,
 - horns for parties,
 - decorative flakes and foams,
 - artificial cobwebs,
 - stink bombs.
2. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with:
'For professional users only'.
3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/324/EEC (2).
4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.

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Legend

R74

1. Shall not be used as substances on their own, as a constituent in other substances or in mixtures for industrial and professional use(s) after 24 August 2023, unless:
 - (a) the concentration of diisocyanates individually and in combination is less than 0,1 % by weight, or
 - (b) the employer or self-employed ensures that industrial or professional user(s) have successfully completed training on the safe use of diisocyanates prior to the use of the substance(s) or mixture(s).
2. Shall not be placed on the market as substances on their own, as a constituent in other substances or in mixtures for industrial and professional use(s) after 24 February 2022, unless:
 - (a) the concentration of diisocyanates individually and in combination is less than 0,1 % by weight, or
 - (b) the supplier ensures that the recipient of the substance(s) or mixture(s) is provided with information on the requirements referred to in point (b) of paragraph 1 and the following statement is placed on the packaging, in a manner that is visibly distinct from the rest of the label information: "As from 24 August 2023 adequate training is required before industrial or professional use".
3. For the purpose of this entry "industrial and professional user(s)" means any worker or self-employed worker handling diisocyanates on their own, as a constituent in other substances or in mixtures for industrial and professional use(s) or supervising these tasks.
4. The training referred to in point (b) of paragraph 1 shall include the instructions for the control of dermal and inhalation exposure to diisocyanates at the workplace without prejudice to any national occupational exposure limit value or other appropriate risk management measures at national level. Such training shall be conducted by an expert on occupational safety and health with competence acquired by relevant vocational training. That training shall cover as a minimum:
 - (a) the training elements in point (a) of paragraph 5 for all industrial and professional use(s).
 - (b) the training elements in points (a) and (b) of paragraph 5 for the following uses:
 - handling open mixtures at ambient temperature (including foam tunnels);
 - spraying in a ventilated booth;
 - application by roller;
 - application by brush;
 - application by dipping and pouring;
 - mechanical post treatment (e.g. cutting) of not fully cured articles which are not warm anymore;
 - cleaning and waste;
 - any other uses with similar exposure through the dermal and/or inhalation route;
 - (c) the training elements in points (a), (b) and (c) of paragraph 5 for the following uses:
 - handling incompletely cured articles (e.g. freshly cured, still warm);
 - foundry applications;
 - maintenance and repair that needs access to equipment;
 - open handling of warm or hot formulations (> 45 °C);
 - spraying in open air, with limited or only natural ventilation (includes large industry working halls) and spraying with high energy (e.g. foams, elastomers);
 - and any other uses with similar exposure through the dermal and/or inhalation route.
5. Training elements:
 - (a) general training, including on-line training, on:
 - chemistry of diisocyanates;
 - toxicity hazards (including acute toxicity);
 - exposure to diisocyanates;
 - occupational exposure limit values;
 - how sensitisation can develop;
 - odour as indication of hazard;
 - importance of volatility for risk;
 - viscosity, temperature, and molecular weight of diisocyanates;
 - personal hygiene;
 - personal protective equipment needed, including practical instructions for its correct use and its limitations;
 - risk of dermal contact and inhalation exposure;
 - risk in relation to application process used;
 - skin and inhalation protection scheme;
 - ventilation;
 - cleaning, leakages, maintenance;
 - discarding empty packaging;
 - protection of bystanders;
 - identification of critical handling stages;
 - specific national code systems (if applicable);
 - behaviour-based safety;
 - certification or documented proof that training has been successfully completed
 - (b) intermediate level training, including on-line training, on:
 - additional behaviour-based aspects;
 - maintenance;
 - management of change;
 - evaluation of existing safety instructions;
 - risk in relation to application process used;
 - certification or documented proof that training has been successfully completed
 - (c) advanced training, including on-line training, on:
 - any additional certification needed for the specific uses covered;
 - spraying outside a spraying booth;
 - open handling of hot or warm formulations (> 45 °C);
 - certification or documented proof that training has been successfully completed
6. The training shall comply with the provisions set by the Member State in which the industrial or professional user(s) operate. Member States may implement or continue to apply their own national requirements for the use of the substance(s) or mixture(s), as long as the minimum requirements set out in paragraphs 4 and 5 are met.
7. The supplier referred to in point (b) of paragraph 2 shall ensure that the recipient is provided with training material and courses pursuant to paragraphs 4 and 5 in the official language(s) of the Member State(s) where the substance(s) or mixture(s) are supplied. The training shall take into consideration the specificity of the products supplied, including composition, packaging, and design.
8. The employer or self-employed shall document the successful completion of the training referred to in paragraphs 4 and 5. The training shall be renewed at least every five years.

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9. Member States shall include in their reports pursuant to Article 117(1) the following information:

- (a) any established training requirements and other risk management measures related to the industrial and professional uses of diisocyanates foreseen in national law;
 - (b) the number of cases of reported and recognised occupational asthma and occupational respiratory and dermal diseases in relation to diisocyanates;
 - (c) national exposure limits for diisocyanates, if there are any;
 - (d) information about enforcement activities related to this restriction.
10. This restriction shall apply without prejudice to other Union legislation on the protection of safety and health of workers at the work-place.

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Legend

R75

1. Shall not be placed on the market in mixtures for use for tattooing purposes, and mixtures containing any such substances shall not be used for tattooing purposes, after 4 January 2022 if the substance or substances in question is or are present in the following circumstances:
- (a) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as carcinogen category 1A, 1B or 2, or germ cell mutagen category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight;
 - (b) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as reproductive toxicant category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater than 0,001 % by weight;
 - (c) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin sensitiser category 1, 1A or 1B, the substance is present in the mixture in a concentration equal to or greater than 0,001 % by weight;
 - (d) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin corrosive category 1, 1A, 1B or 1C or skin irritant category 2, or as serious eye damage category 1 or eye irritant category 2, the substance is present in the mixture in a concentration equal to or greater than:
 - (i) 0,1 % by weight, if the substance is used solely as a pH regulator;
 - (ii) 0,01 % by weight, in all other cases;
 - (e) in the case of a substance listed in Annex II to Regulation (EC) No 1223/2009 (*1), the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight;
 - (f) in the case of a substance for which a condition of one or more of the following kinds is specified in column g (Product type, Body parts) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight:
 - (i) "Rinse-off products";
 - (ii) "Not to be used in products applied on mucous membranes";
 - (iii) "Not to be used in eye products";
 - (g) in the case of a substance for which a condition is specified in column h (Maximum concentration in ready for use preparation) or column i (Other) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration, or in some other way, that does not accord with the condition specified in that column;
 - (h) in the case of a substance listed in Appendix 13 to this Annex, the substance is present in the mixture in a concentration equal to or greater than the concentration limit specified for that substance in that Appendix.
2. For the purposes of this entry use of a mixture "for tattooing purposes" means injection or introduction of the mixture into a person's skin, mucous membrane or eyeball, by any process or procedure (including procedures commonly referred to as permanent make-up, cosmetic tattooing, micro-blading and micro-pigmentation), with the aim of making a mark or design on his or her body.
3. If a substance not listed in Appendix 13 falls within more than one of points (a) to (g) of paragraph 1, the strictest concentration limit laid down in the points in question shall apply to that substance. If a substance listed in Appendix 13 also falls within one or more of points (a) to (g) of paragraph 1, the concentration limit laid down in point (h) of paragraph 1 shall apply to that substance.
4. By way of derogation, paragraph 1 shall not apply to the following substances until 4 January 2023:
- (a) Pigment Blue 15:3 (CI 74160, EC No 205-685-1, CAS No 147-14-8);
 - (b) Pigment Green 7 (CI 74260, EC No 215-524-7, CAS No 1328-53-6).
5. If Part 3 of Annex VI to Regulation (EC) No 1272/2008 is amended after 4 January 2021 to classify or re-classify a substance such that the substance then becomes caught by point (a), (b), (c) or (d) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the date of application of that new or revised classification is after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect on the date of application of that new or revised classification.
6. If Annex II or Annex IV to Regulation (EC) No 1223/2009 is amended after 4 January 2021 to list or change the listing of a substance such that the substance then becomes caught by point (e), (f) or (g) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the amendment takes effect after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect from the date falling 18 months after entry into force of the act by which that amendment was made.
7. Suppliers placing a mixture on the market for use for tattooing purposes shall ensure that, after 4 January 2022, the mixture is marked with the following information:
- (a) the statement "Mixture for use in tattoos or permanent make-up";
 - (b) a reference number to uniquely identify the batch;
 - (c) the list of ingredients in accordance with the nomenclature established in the glossary of common ingredient names pursuant to Article 33 of Regulation (EC) No 1223/2009, or in the absence of a common ingredient name, the IUPAC name. In the absence of a common ingredient name or IUPAC name, the CAS and EC number. Ingredients shall be listed in descending order by weight or volume of the ingredients at the time of formulation. "Ingredient" means any substance added during the process of formulation and present in the mixture for use for tattooing purposes. Impurities shall not be regarded as ingredients. If the name of a substance, used as ingredient within the meaning of this entry, is already required to be stated on the label in accordance with Regulation (EC) No 1272/2008, that ingredient does not need to be marked in accordance with this Regulation;
 - (d) the additional statement "pH regulator" for substances falling under point (d)(i) of paragraph 1;
 - (e) the statement "Contains nickel. Can cause allergic reactions." if the mixture contains nickel below the concentration limit specified in Appendix 13;
 - (f) the statement "Contains chromium (VI). Can cause allergic reactions." if the mixture contains chromium (VI) below the concentration limit specified in Appendix 13;
 - (g) safety instructions for use insofar as they are not already required to be stated on the label by Regulation (EC) No 1272/2008.
- The information shall be clearly visible, easily legible and marked in a way that is indelible.
- The information shall be written in the official language(s) of the Member State(s) where the mixture is placed on the market, unless the Member State(s) concerned provide(s) otherwise.
- Where necessary because of the size of the package, the information listed in the first subparagraph, except for point (a), shall be included instead in the instructions for use.
- Before using a mixture for tattooing purposes, the person using the mixture shall provide the person undergoing the procedure with the information marked on the package or included in the instructions for use pursuant to this paragraph.
8. Mixtures that do not contain the statement "Mixture for use in tattoos or permanent make-up" shall not be used for tattooing purposes.
9. This entry does not apply to substances that are gases at temperature of 20 °C and pressure of 101,3 kPa, or generate a vapour pressure of more than 300 kPa at temperature of 50 °C, with the exception of formaldehyde (CAS No 50-00-0, EC No 200-001-8).
10. This entry does not apply to the placing on the market of a mixture for use for tattooing purposes, or to the use of a mixture for tattooing purposes, when placed on the market exclusively as a medical device or an accessory to a medical device, within the meaning of Regulation (EU) 2017/745, or when used exclusively as a medical device or an accessory to a medical device, within the same meaning. Where the placing on the market or use may not be exclusively as a medical device or an accessory to a medical device, the require-

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ments of Regulation (EU) 2017/745 and of this Regulation shall apply cumulatively.

List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list

None of the ingredients are listed.

Seveso Directive

2012/18/EU (Seveso III)				
No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the application of lower and upper-tier requirements		Notes
P3a	flammable aerosols (containing Flam. Gas or Flam. Liq.)	150	500	46)

Notation

46) 'flammable' aerosols category 1 or 2, containing flammable gases category 1 or 2 or flammable liquids category 1
Note: qualifying quantity = net

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

None of the ingredients are listed.

Water Framework Directive (WFD)

List of pollutants (WFD)				
Name of substance	Name acc. to inventory	CAS No	Listed in	Remarks
Reaction products of phosphoryl trichloride and 2-methyloxirane	Organohalogen compounds and substances which may form such compounds in the aquatic environment		a)	
Reaction products of phosphoryl trichloride and 2-methyloxirane	Organophosphorous compounds		a)	
DIPHENYLMETHANEDIISOCYANATE, ISOMERS AND HOMOLOGUES	Substances and preparations, or the breakdown products of such, which have been proved to possess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine-related functions in or via the aquatic environment		a)	

Legend

A) Indicative list of the main pollutants

Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors, amending Regulation (EC) No 1907/2006 and repealing Regulation (EU) No 98/2013

None of the ingredients are listed.

Regulation on persistent organic pollutants (POP)

None of the ingredients are listed.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

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SECTION 16: Other information

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
2000/39/EC	Commission Directive establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC
Acute Tox.	Acute toxicity
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
ATE	Acute Toxicity Estimate
Carc.	Carcinogenicity
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
Flam. Gas	Flammable gas
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
IOELV	Indicative occupational exposure limit value
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval

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Abbr.	Descriptions of used abbreviations
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
LEL	Lower explosion limit (LEL)
NLP	No-Longer Polymer
NOEC	No Observed Effect Concentration
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
Press. Gas	Gas under pressure
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
Resp. Sens.	Respiratory sensitisation
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
S.I. No. 619 of 2001	Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
Skin Sens.	Skin sensitisation
STEL	Short-term exposure limit
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure
SVHC	Substance of Very High Concern
TWA	Time-weighted average
UEL	Upper explosion limit (UEL)
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in section 2 and 3)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

LDP-1000

Version number: 5.0
Replaces version of: 2014-01-07 (4)

Revision: 2022-05-12

Code	Text
H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.