

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

Fire and Soot Remover

Version number: GHS 17.0 Revision: 2025-03-05 Replaces version of: 2023-11-14 (GHS 16)

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

1.1 Product identifier

Trade name Fire and Soot Remover

Product code(s) 12203

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

Relevant identified uses cleaning agent

industrial uses professional uses

Uses advised against Do not use for private purposes (household).

1.3 Details of the supplier of the safety data sheet

Tristar Cleaning Products UK Ltd. Unit 3 Ripley Close WF6 1TB Normanton, Wakefield United Kingdom

Tel: +44 1924856390

E-mail: info@tristargroup.uk

1.4 Emergency telephone number

Emergency information service for emergency responders

This number is only for medical emergencies.

Poison centre		
Country	Name	e-Mail
United Kingdom	National Poisons Information Service (NPIS)	director.birmingham.unit@npis.o rg

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification acc. to GHS

Section	Hazard class	Category	Hazard class and cat- egory	Hazard state- ment
3.3	serious eye damage/eye irritation	2	Eye Irrit. 2	H319

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

2.2 Label elements

Labelling

- Signal word warning

- Pictograms

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- Hazard statements

H319 Causes serious eye irritation.

- Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protec-

tion.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

2.3 Other hazards

Results of PBT and vPvB assessment

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

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of \geq 0,1%.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Description of the mixture

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
2-(2- butoxyethoxy)ethanol	CAS No 112-34-5	5 - < 10	Eye Irrit. 2 / H319	()	GHS-HC IOELV
	EC No 203-961-6			·	
	Index No 603-096-00-8				
Isotridecanol, eth- oxylated (>=2.5 EO)	CAS No 69011-36-5	1-<5	Acute Tox. 4 / H302 Eye Dam. 1 / H318		
	EC No 931-138-8 500-241-6			·	
Sodium p-cumenes- ulphonate	CAS No 15763-76-5	1-<5	Eye Irrit. 2 / H319	<u>(1)</u>	
	EC No 239-854-6			·	
Isotridecanol, eth- oxylated	CAS No 69011-36-5	1-<5	Eye Dam. 1 / H318 Aquatic Chronic 3 / H412		
	EC No 931-138-8 500-241-6			·	

Notes

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

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Name of substance	Specific Conc. Limits	M-Factors	ATE	Exposure route
Isotridecanol, eth- oxylated (>=2.5 EO)	Eye Dam. 1; H318: C ≥ 10 % Eye Irrit. 2; H319: 1 % ≤ C < 10 %	-	555.6 ^{mg} / _{kg}	oral
Isotridecanol, eth- oxylated	Eye Dam. 1; H318: C ≥ 10 % Eye Irrit. 2; H319: 1 % ≤ C < 10 %	-	-	

Remarks

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. Keep affected person warm, still and covered. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

Self-protection of the first aider

Provision of sufficient ventilation. Wear suitable protective clothing, gloves and eye/face protection.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, BC-powder, Carbon dioxide (CO2)

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2)

5.3 Advice for firefighters

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. Self-contained breathing apparatus (SCBA). SCBA with a chemical protection suit only where personal (close) contact is likely.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Follow emergency procedures such as the need to evacuate the danger area or to consult an expert. Remove persons to safety. Provision of sufficient ventilation. Prevent skin contact. Avoid inhaling sprayed product. Collection and use of expertise.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases. Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

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.

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.

7.2 Conditions for safe storage, including any incompatibilities

Control of effects

Protect from sunlight.

Protect against external exposure, such as

frost

Packaging compatibilities

Keep only in original container.

7.3 Specific end use(s)

Cleaning agent. Industrial uses. Professional uses.

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SECTION 8: Exposure controls/personal protection

8.1 **Control parameters**

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

Occup	Occupational exposure limit values (Workplace Exposure Limits)										
Coun try	Name of agent	CAS No	Nota tion	lden- tifier	TWA [ppm]	TWA [mg/m	STEL [ppm]	STEL [mg/m	Ceil- ing-C [ppm]	Ceil- ing-C [mg/m	Sourc e
EU	2-(2-butoxyeth- oxy)ethanol	112-34-5		IOEL V	10	67.5	15	101.2			2006/ 15/EC
GB	2-(2-butoxyeth- oxy)ethanol	112-34-5		WEL	10	67.5	15	101.2			EH40/ 2005

Notation

Ceiling-C ceiling value is a limit value above which exposure should not occur

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) STEL

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) TWA

Relevant DNELs of components of the mixture

Relevant Bivees o	Relevant BNES of components of the mixture								
Name of sub- stance	CAS No	End- point	Threshold level	Protection goal, route of expos- ure	Used in	Exposure time			
2-(2- butoxyethoxy)eth- anol	112-34-5	DNEL	67.5 mg/m³	human, inhalat- ory	worker (industry)	chronic - systemic effects			
2-(2- butoxyethoxy)eth- anol	112-34-5	DNEL	67.5 mg/m³	human, inhalat- ory	worker (industry)	chronic - local ef- fects			
2-(2- butoxyethoxy)eth- anol	112-34-5	DNEL	101.2 mg/m³	human, inhalat- ory	worker (industry)	acute - local ef- fects			
2-(2- butoxyethoxy)eth- anol	112-34-5	DNEL	83 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects			
Isotridecanol, eth- oxylated (>=2.5 EO)	69011-36-5	DNEL	37 mg/m³	human, inhalat- ory	worker (industry)	chronic - systemic effects			
Isotridecanol, eth- oxylated (>=2.5 EO)	69011-36-5	DNEL	263 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects			
Sodium p-cumenes- ulphonate	15763-76-5	DNEL	37.4 mg/m³	human, inhalat- ory	worker (industry)	chronic - systemic effects			
Sodium p-cumenes- ulphonate	15763-76-5	DNEL	191 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects			
Isotridecanol, eth- oxylated	69011-36-5	DNEL	37 mg/m³	human, inhalat- ory	worker (industry)	chronic - systemic effects			
Isotridecanol, eth- oxylated	69011-36-5	DNEL	263 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects			

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Relevant PNECs of components of the mixture

Relevant PNECs of components of the mixture									
Name of sub- stance	CAS No	End- point	Threshold level	Organism	Environmental compartment	Exposure time			
2-(2- butoxyethoxy)eth- anol	112-34-5	PNEC	1.1 ^{mg} / _l	aquatic organ- isms	freshwater	short-term (single instance)			
2-(2- butoxyethoxy)eth- anol	112-34-5	PNEC	0.11 ^{mg} / _I	aquatic organ- isms	marine water	short-term (single instance)			
2-(2- butoxyethoxy)eth- anol	112-34-5	PNEC	200 ^{mg} / _l	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)			
2-(2- butoxyethoxy)eth- anol	112-34-5	PNEC	4.4 ^{mg} / _{kg}	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)			
2-(2- butoxyethoxy)eth- anol	112-34-5	PNEC	0.44 ^{mg} / _{kg}	aquatic organ- isms	marine sediment	short-term (single instance)			
2-(2- butoxyethoxy)eth- anol	112-34-5	PNEC	0.32 ^{mg} / _{kg}	terrestrial organ- isms	soil	short-term (single instance)			
Isotridecanol, eth- oxylated (>=2.5 EO)	69011-36-5	PNEC	0.015 ^{mg} / _l	aquatic organ- isms	water	intermittent re- lease			
Isotridecanol, eth- oxylated (>=2.5 EO)	69011-36-5	PNEC	4.36 ^{µg} / _l	aquatic organ- isms	freshwater	short-term (single instance)			
Isotridecanol, eth- oxylated (>=2.5 EO)	69011-36-5	PNEC	0.436 ^{µg} / _l	aquatic organ- isms	marine water	short-term (single instance)			
Isotridecanol, eth- oxylated (>=2.5 EO)	69011-36-5	PNEC	4.35 ^{mg} / ₁	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)			
Isotridecanol, eth- oxylated (>=2.5 EO)	69011-36-5	PNEC	0.119 ^{mg} / kg	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)			
Isotridecanol, eth- oxylated (>=2.5 EO)	69011-36-5	PNEC	0.012 ^{mg} / kg	aquatic organ- isms	marine sediment	short-term (single instance)			
Isotridecanol, eth- oxylated (>=2.5 EO)	69011-36-5	PNEC	0.021 ^{mg} / kg	terrestrial organ- isms	soil	short-term (single instance)			
Sodium p-cumenes- ulphonate	15763-76-5	PNEC	0.1 ^{mg} / _l	aquatic organ- isms	freshwater	short-term (single instance)			
Sodium p-cumenes- ulphonate	15763-76-5	PNEC	0.01 ^{mg} / ₁	aquatic organ- isms	marine water	short-term (single instance)			
Sodium p-cumenes- ulphonate	15763-76-5	PNEC	100 ^{mg} / _l	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)			
Sodium p-cumenes- ulphonate	15763-76-5	PNEC	0.372 ^{mg} / kg	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)			
Sodium p-cumenes- ulphonate	15763-76-5	PNEC	0.037 ^{mg} / kg	aquatic organ- isms	marine sediment	short-term (single instance)			
Sodium p-cumenes- ulphonate	15763-76-5	PNEC	0.016 ^{mg} / kg	terrestrial organ- isms	soil	short-term (single instance)			
Isotridecanol, eth- oxylated	69011-36-5	PNEC	4.36 ^{µg} / _l	aquatic organ- isms	freshwater	short-term (single instance)			
Isotridecanol, eth- oxylated	69011-36-5	PNEC	0.436 ^{µg} / _l	aquatic organ- isms	marine water	short-term (single instance)			
Isotridecanol, eth- oxylated	69011-36-5	PNEC	4.35 ^{mg} / ₁	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)			

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kg 0.021 ^{mg} /

Relevant PNECs of components of the mixture								
Name of substance CAS No End- Threshold Organism Environmental compartment Exposure to								
Isotridecanol, eth- oxylated	69011-36-5	PNEC	0.119 ^{mg} / kg	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)		
Isotridecanol, eth- oxylated	69011-36-5	PNEC	0.012 ^{mg} /	aquatic organ- isms	marine sediment	short-term (single instance)		

terrestrial organ-

isms

soil

short-term (single

instance)

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Isotridecanol, eth-

oxylated

Individual protection measures (personal protective equipment)

PNEC

General protective and hygiene measures

69011-36-5

Observe the usual precautions for handling chemicals. Personal protective equipment must comply with the Regulation (EC) No 2016/425 and the resulting CEN standards. The following information on personal protective equipment (PPE) is to be understood as a suggestion. The selection of the necessary PPE must be considered by the employer depending on the activities to be carried out and the local conditions.

If it is determined during the on-site risk assessment that there is no danger to the employee, there is no need to wear PPE or the scope of the PPE to be used can be adjusted accordingly.

Eye/face protection

Wear eye/face protection. Use safety goggle with side protection.

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- Type of material

NBR: acrylonitrile-butadiene rubber

- Material thickness

> 0.35 mm

- Breakthrough times of the glove material

>480 minutes (permeation: level 6)

- Other protection measures

Protective clothing against liquid chemicals. Footwear protecting against chemicals. Preventive skin protection (barrier creams/ointments) is recommended. Take recovery periods for skin regeneration. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Type: ABEK (combined filters against gases and vapours, colour code: Brown/Grey/Yellow/Green).

Environmental exposure controls

Use appropriate container to avoid environmental contamination. 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
Colour yellow

Odour characteristic

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Melting point/freezing point not determined

Boiling point or initial boiling point and boiling

range

Flammability this material is combustible, but will not ignite

readily

100 °C

Lower and upper explosion limit not determined

Flash point >100 °C at 1,013 hPa

Auto-ignition temperature 210 °C (auto-ignition temperature (liquids and gases)) pH (value) 9 (in aqueous solution: 100 ^{mg}/_{cm³}, 20 °C)

Kinematic viscosity not determined Solubility(ies) not determined

Partition coefficient

Partition coefficient n-octanol/water (log value) this information is not available

Vapour pressure 2.339 kPa at 20 °C (calculated value, referring to a compon-

ent of the mixture)

Density and/or relative density

Density 1.02 ^g/_{cm³} at 20 °C

Relative vapour density information on this property is not available

Particle characteristics not relevant (liquid)

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9.2 Other information

Information with regard to physical hazard classes hazard classes acc. to GHS (physical hazards): not

relevant

Other safety characteristics

VOC content 5.454 %

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

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 toxicological effects

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 acc. to GHS

Acute toxicity

Shall not be classified as acutely toxic.

Acute toxicity estimate (ATE) of components of the mixture

Name of sub	stance	CAS No	Exposure route	ATE
Isotridecanol, ethox	/lated (>=2.5 EO)	69011-36-5	oral	555.6 ^{mg} / _{kg}

Acute toxicity of components of the mixture

Name of substance	CAS No	Exposure route	Endpoint	Value	Species
2-(2-butoxyethoxy)ethanol	112-34-5	oral	LD50	2,410 ^{mg} / _{kg}	mouse
2-(2-butoxyethoxy)ethanol	112-34-5	dermal	LD50	2,764 ^{mg} / _{kg}	rabbit
Isotridecanol, ethoxylated (>=2.5 EO)	69011-36-5	oral	LD50	>2,000 ^{mg} / _{kg}	rat
Sodium p-cumenesulphonate	15763-76-5	oral	LD50	>6,720 ^{mg} / _{kg}	rat
Sodium p-cumenesulphonate	15763-76-5	dermal	LD50	>2,000 ^{mg} / _{kg}	rabbit

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Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (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
2-(2- butoxyethoxy)ethanol	112-34-5	LC50	1,300 ^{mg} / _l	fish	96 h
2-(2- butoxyethoxy)ethanol	112-34-5	EC50	>100 ^{mg} / _l	aquatic invertebrates	48 h
2-(2- butoxyethoxy)ethanol	112-34-5	ErC50	>100 ^{mg} / _I	algae	96 h
Isotridecanol, eth- oxylated (>=2.5 EO)	69011-36-5	LL50	>1.5 ^{mg} / ₁	fish	96 h
Isotridecanol, eth- oxylated (>=2.5 EO)	69011-36-5	EL50	0.64 ^{mg} / _l	aquatic invertebrates	48 h
Isotridecanol, eth- oxylated (>=2.5 EO)	69011-36-5	ErC50	3.4 ^{mg} / _I	algae	72 h
Sodium p-cumenes- ulphonate	15763-76-5	LC50	≥252 ^{mg} / _I	fish	96 h
Sodium p-cumenes- ulphonate	15763-76-5	EC50	>304 ^{mg} / _I	aquatic invertebrates	48 h
Sodium p-cumenes- ulphonate	15763-76-5	ErC50	252 ^{mg} / _l	algae	72 h

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12.2 Persistence and degradability

Degradability of components of the mixture								
Name of sub- stance	CAS No	Process	Degradation rate	Time	Method	Source		
2-(2-butoxyeth- oxy)ethanol	112-34-5	oxygen deple- tion	85 %	28 d		ECHA		
Isotridecanol, ethoxylated (>=2.5 EO)	69011-36-5	carbon dioxide generation	75 %	28 d		ECHA		
Isotridecanol, ethoxylated (>=2.5 EO)	69011-36-5	DOC removal	82 %	28 d		ECHA		
Sodium p-cu-	15763-76-5	carbon dioxide	98 %	28 d		ECHA		

12.3 Bioaccumulative potential

menesulphon-

Data are not available.

Bioaccumulative potential of components of the mixture				
Name of substance	CAS No	BCF	Log KOW	BOD5/COD
2-(2-butoxyethoxy)ethanol	112-34-5		1 (pH value: 7, 20 °C)	
Isotridecanol, ethoxylated (>=2.5 EO)	69011-36-5	12.7		
Sodium p-cumenesulphonate	15763-76-5		-1.1 (23 °C)	

12.7

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Isotridecanol, ethoxylated

Does not contain a PBT-/vPvB-substance at a concentration of \geq 0,1%.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0.1\%$.

generation

69011-36-5

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. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

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 not subject to transport regulations

14.2 UN proper shipping name not relevant

14.3 Transport hazard class(es) none

14.4 Packing group not assigned

14.5 Environmental hazards non-environmentally hazardous acc. to the dan-

gerous goods regulations

14.6 Special precautions for user

There is no additional information.

14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations

International Maritime Dangerous Goods Code (IMDG) - Additional information

Not subject to IMDG.

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

Not subject to ICAO-IATA.

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)

None of the ingredients are listed.

Deco-Paint Directive

VOC content	8.2 %
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Industrial Emissions Directive (IED)

VOC content	5.454 %
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Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the ingredients are listed

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

none of the ingredients are listed

Regulation on persistent organic pollutants (POP)

none of the ingredients are listed

National regulations (GB)

List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list

none of the ingredients are listed

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

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Restrictions according to GB REACH, Annex 17

Dangerous substances with restrictions (GB REACH, Annex 17)

Name of substance	Name acc. to inventory	CAS No	No
Fire and Soot Remover	this product meets the criteria for classi tion in accordance with Regulation No 1272/2008/EC	fica-	3
2-(2-butoxyethoxy)ethanol	2-(2-butoxyethoxy)ethanol (DEGBE)	112-34-5	55

National inventories

Country	Inventory	Status
EU	REACH Reg.	all ingredients are listed
US	TSCA	not all ingredients are listed

<u>Legend</u>

REACH Reg. REACH registered substances
TSCA Toxic Substance Control Act

15.2 Chemical safety assessment

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

SECTION 16: Other information

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
2006/15/EC	Commission Directive establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/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
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
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)
ED	Endocrine disruptor
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-li- cence/)
EINECS	European Inventory of Existing Commercial Chemical Substances

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Abbr.	Descriptions of used abbreviations
EL50	Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms
ELINCS	European List of Notified Chemical Substances
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
GB REACH	The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended)
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
IMDG	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
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
LL50	Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality
log KOW	n-Octanol/water
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
SCBA	Self-contained breathing apparatus
STEL	Short-term exposure limit
TWA	Time-weighted average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit

Key literature references and sources for data

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).

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

Code	Text
H302	Harmful if swallowed.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

Disclaimer

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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