

## Polywater® HotStick Cleaner & Water-Repellent Wipe

Version number: 2.0  
Replaces version of: 2019-08-28 (1)

Revision: 2020-06-26

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

#### 1.1 Product identifier

Trade name	<b>Polywater® HotStick Cleaner &amp; Water-Repellent Wipe</b>
Registration number (REACH)	not relevant (mixture)
Alternative number(s)	article number S-X

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

Relevant identified uses	Professional use
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#### 1.3 Details of the supplier of the safety data sheet

Polywater Europe BV  
Zuidhaven 9-11 Unit B2  
4761 CR Zevenbergen  
The Netherlands

Telephone: +31 (0)10 2330578  
e-mail: sds@polywater.com  
Website: www.polywater.com

e-mail (competent person)	sds@polywater.com
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#### 1.4 Emergency telephone number

Emergency information service	+31 (0)10 2330578 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
United Kingdom	NHS (general public)	non-emergency: 111 or a doctor; emergency: 999

### 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
2.6	flammable liquid	2	Flam. Liq. 2	H225
3.3	serious eye damage/eye irritation	2	Eye Irrit. 2	H319
3.8D	specific target organ toxicity - single exposure (narcotic effects, drowsiness)	3	STOT SE 3	H336

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

The product is combustible and can be ignited by potential ignition sources.

#### 2.2 Label elements

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

- signal word	Danger
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- pictograms

GHS02, GHS07



- hazard statements

H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.

- precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P243 Take action to prevent static discharges.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing 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.  
P312 Call a POISON CENTRE/doctor if you feel unwell.

- hazardous ingredients for labelling

Isopropyl alcohol

### 2.3 Other hazards

Of no significance.

Results of PBT and vPvB assessment

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



## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not relevant (mixture)

### 3.2 Mixtures

The product does not contain any (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	Specific Conc. Limits	M-Factors
Isopropyl alcohol	CAS No 67-63-0  EC No 200-661-7  Index No 603-117-00-0  REACH Reg. No 01- 2119457558 -25-xxxx	50 – < 75	Flam. Liq. 2 / H225 Eye Irrit. 2 / H319 STOT SE 3 / H336	 	GHS-HC		

Notes

GHS-HC: Harmonised classification (the classification of the substance corresponds to the entry in the list according to 1272/2008/EC, Annex VI)

### Remarks

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

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### 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. Call a POISON CENTER/doctor if you feel unwell.

##### 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 15 minutes, holding the eyelids apart. If eye irritation persists: Get medical advice/attention.

##### Following ingestion

Rinse mouth with water (only if the person is conscious). Call a POISON CENTER or doctor if you feel unwell.

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

Narcotic effects. Causes serious eye irritation. For information on the symptoms and effects, see Section 11.

#### 4.3 Indication of any immediate medical attention and special treatment needed

For specialist advice physicians should contact the poison centre.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing media

Alcohol resistant foam; Dry extinguishing powder; Carbon dioxide (CO<sub>2</sub>)

##### Unsuitable extinguishing media

Water jet.

#### 5.2 Special hazards arising from the substance or mixture

In case of insufficient ventilation and/or in use, may form flammable/explosive vapour-air mixture. Solvent vapours are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

##### Hazardous combustion products

During fire hazardous fumes/smoke could be produced. Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

#### 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.

##### Special protective equipment for firefighters

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

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### 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

Avoid release to the environment.

#### 6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Absorb spillage to prevent material damage.

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece).

Appropriate containment techniques

Use of adsorbent materials.

#### 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

Keep away from heat/sparks/open flames/hot surfaces. No smoking. Avoid breathing vapors or spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink, or smoke when using this product. Wash thoroughly after handling. Wash contaminated clothing before reuse. Use only outdoors or in a well-ventilated area. For industrial or professional use only.

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

Use local and general ventilation. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools.

- specific notes/details

Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapours are heavier than air, spread along floors and form explosive mixtures with air. Vapours may form explosive mixtures with air.

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

Managing of associated risks

- explosive atmospheres

Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight.

- flammability hazards

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

- incompatible substances or mixtures

Keep away from alkalis, oxidising substances, acids.

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### 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.

### 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 <sup>3</sup> ]	STEL [ppm]	STEL [mg/m <sup>3</sup> ]	Notation	Source
GB	propan-2-ol	67-63-0	WEL	400	999	500	1,250		EH40/2005

#### Notation

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	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Isopropyl alcohol	67-63-0	DNEL	500 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Isopropyl alcohol	67-63-0	DNEL	888 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Isopropyl alcohol	67-63-0	DNEL	89 mg/m <sup>3</sup>	human, inhalatory	consumer (private households)	chronic - systemic effects
Isopropyl alcohol	67-63-0	DNEL	319 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
Isopropyl alcohol	67-63-0	DNEL	26 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects

Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Isopropyl alcohol	67-63-0	PNEC	140.9 mg/l	aquatic organisms	freshwater	intermittent release
Isopropyl alcohol	67-63-0	PNEC	140.9 mg/l	aquatic organisms	marine water	intermittent release
Isopropyl alcohol	67-63-0	PNEC	140.9 mg/l	aquatic organisms	water	short-term (single instance)
Isopropyl alcohol	67-63-0	PNEC	2,251 mg/l	aquatic organisms	sewage treatment plant (STP)	intermittent release

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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
Isopropyl alcohol	67-63-0	PNEC	552 mg/kg	aquatic organisms	freshwater sediment	intermittent release
Isopropyl alcohol	67-63-0	PNEC	552 mg/kg	aquatic organisms	marine sediment	intermittent release
Isopropyl alcohol	67-63-0	PNEC	28 mg/kg	terrestrial organisms	soil	intermittent release
Isopropyl alcohol	67-63-0	PNEC	160 mg/kg	(top) predators	water	intermittent release
Isopropyl alcohol	67-63-0	PNEC	140.9 mg/l	aquatic organisms	water	intermittent release
Isopropyl alcohol	67-63-0	PNEC	140.9 mg/l	aquatic organisms	freshwater	short-term (single instance)
Isopropyl alcohol	67-63-0	PNEC	140.9 mg/l	aquatic organisms	marine water	short-term (single instance)
Isopropyl alcohol	67-63-0	PNEC	2,251 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Isopropyl alcohol	67-63-0	PNEC	552 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Isopropyl alcohol	67-63-0	PNEC	552 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Isopropyl alcohol	67-63-0	PNEC	28 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. Check leak-tightness/impermeability prior to use. 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. 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.

##### - type of material

IIR: isobutene-isoprene (butyl) rubber, Nitrile rubber

##### - material thickness

Use gloves with a minimum material thickness:  $\geq 0,5$  mm.

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- 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.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

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

##### Appearance

Physical state	liquid
Colour	colourless
Odour	alcohol

##### Other safety parameters

pH (value)	not determined
Melting point/freezing point	-90 °C (isopropanol)
Initial boiling point and boiling range	82 °C (isopropanol)
Flash point	13 °C (TCC)
Evaporation rate	1.7 (n-butyl acetate = 1) (isopropanol)
Flammability (solid, gas)	not relevant, (fluid)

##### Explosive limits

- lower explosion limit (LEL)	2 vol%, (isopropanol)
- upper explosion limit (UEL)	12.7 vol% (isopropanol)

Vapour pressure	4.4 kPa at 20 °C (isopropanol)
Density	not determined
Vapour density	2.1 (air=1)
Relative density	0.79 (water = 1)

##### Solubility(ies)

- water solubility	miscible in any proportion
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##### Partition coefficient

- n-octanol/water (log KOW)	this information is not available
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Auto-ignition temperature	>350 °C
Viscosity	not determined
Explosive properties	none
Oxidising properties	none

### 9.2 Other information

Volatiles (weight %): 85%.  
Volatile Organic Compound (VOC) content: 675 g/l.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

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

If heated:

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

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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

Acute toxicity

Shall not be classified as acutely toxic.

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Causes serious eye irritation.

Direct eye contact may cause eye irritation. This irritation is minimal and expected to be transient.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.



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### 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

May cause drowsiness or dizziness.

### 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.

## 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
Isopropyl alcohol	67-63-0	LC0	5,000 mg/l	aquatic invertebrates	24 h
Isopropyl alcohol	67-63-0	LC50	10,000 mg/l	fish	96 h
Isopropyl alcohol	67-63-0	LC50	9,640 mg/l	fish	96 h
Isopropyl alcohol	67-63-0	LC50	>10,000 mg/l	aquatic invertebrates	24 h

Aquatic toxicity (chronic) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Isopropyl alcohol	67-63-0	LC50	>10,000 mg/l	aquatic invertebrates	24 h

### 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 Other adverse effects

Data are not available.

#### Endocrine disrupting potential

None of the ingredients are listed.

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### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Waste treatment-relevant information

Solvent reclamation/regeneration.

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.

### SECTION 14: Transport information

<b>14.1 UN number</b>	3175
<b>14.2 UN proper shipping name</b>	SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S.
Technical name (Hazardous ingredients)	Isopropyl alcohol
<b>14.3 Transport hazard class(es)</b>	
Class	4.1 (flammable solids)
<b>14.4 Packing group</b>	II (substance presenting medium danger)
<b>14.5 Environmental hazards</b>	non-environmentally hazardous acc. to the dangerous goods regulations
<b>14.6 Special precautions for user</b>	
	Provisions for dangerous goods (ADR) should be complied within the premises.
<b>14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code</b>	
	No data available.

#### Information for each of the UN Model Regulations

##### **Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)**

UN number	3175
Proper shipping name	SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S.
Class	4.1
Classification code	F1
Packing group	II
Danger label(s)	4.1



Special provisions (SP)	216, 274, 601, 800(ADN)
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 kg
Transport category (TC)	2
Tunnel restriction code (TRC)	E

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Hazard identification No	40
Emergency Action Code	1Z
<b>International Maritime Dangerous Goods Code (IMDG)</b>	
UN number	3175
Proper shipping name	SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S.
Class	4.1
Marine pollutant	-
Packing group	II
Danger label(s)	4.1



Special provisions (SP)	216, 274
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 kg
EmS	F-A, S-I
Stowage category	B

### International Civil Aviation Organization (ICAO-IATA/DGR)

UN number	3175
Proper shipping name	Solids containing flammable liquid, n.o.s.
Class	4.1
Packing group	II
Danger label(s)	4.1



Special provisions (SP)	A46
Excepted quantities (EQ)	E2
Limited quantities (LQ)	5 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
Polywater® HotStick Cleaner & Water-Repellent Wipe	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC	R3	3
Propan-2-ol	flammable / pyrophoric	R40	40

#### 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.
- 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,

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### Legend

- present an aspiration hazard and are labelled with R65 or 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 Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:
- (a) lamp oils, labelled with R65 or 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 R65 or 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 may lead to life threatening lung damage';
- (c) lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.
6. No later than 1 June 2014, the Commission shall request the European Chemicals Agency to prepare a dossier, in accordance with Article 69 of the present Regulation with a view to ban, if appropriate, grill lighter fluids and fuel for decorative lamps, labelled R65 or H304, intended for supply to the general public.
7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with R65 or H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled R65 or H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission.
- 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.

### 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
P5c	flammable liquids (cat. 2, 3)	5,000                      50,000	51)

#### Notation

51) flammable liquids, categories 2 or 3 not covered by P5a and P5b

### Regulation 166/2006/EC 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
Isopropyl alcohol	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)	

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List of pollutants (WFD)				
Name of substance	Name acc. to inventory	CAS No	Listed in	Remarks
Isopropyl alcohol	Biocides and plant protection products		A)	

Legend

A) Indicative list of the main pollutants

### Regulation 98/2013/EU on the marketing and use of explosives precursors

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.

## SECTION 16: Other information

### Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)
2.2		- precautionary statements: change in the listing (table)
4.2	Most important symptoms and effects, both acute and delayed: Narcotic effects.	Most important symptoms and effects, both acute and delayed: Narcotic effects. Causes serious eye irritation. For information on the symptoms and effects, see Section 11.
6.2	Environmental precautions: Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.	Environmental precautions: Avoid release to the environment.
6.3	Advice on how to contain a spill: Covering of drains.	Advice on how to contain a spill: Absorb spillage to prevent material damage.
7.1	Recommendations	Recommendations: Keep away from heat/sparks/open flames/hot surfaces. No smoking. Avoid breathing vapors or spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink, or smoke when using this product. Wash thoroughly after handling. Wash contaminated clothing before reuse. Use only outdoors or in a well-ventilated area. For industrial or professional use only.
8.1		Relevant DNELs of components of the mixture: change in the listing (table)
8.1		Relevant PNECs of components of the mixture: change in the listing (table)
9.1	Melting point/freezing point: not determined	Melting point/freezing point: -90 °C (isopropanol)
9.1	Initial boiling point and boiling range: not determined	Initial boiling point and boiling range: 82 °C (isopropanol)
9.1	Flash point: not determined	Flash point: 13 °C (TCC)
9.1	Evaporation rate: not determined	Evaporation rate: 1.7 (n-butyl acetate = 1) (isopropanol)
9.1	Explosive limits: not determined	Explosive limits
9.1		Lower explosion limit (LEL): 2 vol%, (isopropanol)

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Section	Former entry (text/value)	Actual entry (text/value)
9.1		Upper explosion limit (UEL): 12.7 vol% (isopropanol)
9.1	Vapour pressure: not determined	Vapour pressure: 4.4 kPa at 20 °C (isopropanol)
9.1	Vapour density: this information is not available	Vapour density: 2.1 (air=1)
9.1	Solubility(ies): not determined	Solubility(ies)
9.1		Water solubility: miscible in any proportion
9.1	Auto-ignition temperature: not determined	Auto-ignition temperature: >350 °C
9.2	Other information: There is no additional information.	Other information: Volatiles (weight %): 85%. Volatile Organic Compound (VOC) content: 675 g/l.
11.1	Serious eye damage/eye irritation: Causes serious eye irritation.	Serious eye damage/eye irritation: Causes serious eye irritation. Direct eye contact may cause eye irritation. This irritation is minimal and expected to be transient.
12.1		Aquatic toxicity (acute) of components of the mixture: change in the listing (table)
12.1		Aquatic toxicity (chronic) of components of the mixture: change in the listing (table)
14.1	UN number: 1219	UN number: 3175
14.2	UN proper shipping name: ISOPROPANOL	UN proper shipping name: SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S.
14.2		Technical name (Hazardous ingredients): Isopropyl alcohol
14.3	Class: 3 (flammable liquids)	Class: 4.1 (flammable solids)
14.7	UN number: 1219	UN number: 3175
14.7	Proper shipping name: ISOPROPANOL	Proper shipping name: SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S.
14.7	Class: 3	Class: 4.1
14.7	Danger label(s): 3	Danger label(s): 4.1
14.7		Danger label(s): change in the listing (table)
14.7	Special provisions (SP): 601	Special provisions (SP): 216, 274, 601, 800(ADN)
14.7	Limited quantities (LQ): 1 L	Limited quantities (LQ): 1 kg
14.7	Tunnel restriction code (TRC): D/E	Tunnel restriction code (TRC): E
14.7	Hazard identification No: 33	Hazard identification No: 40

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Section	Former entry (text/value)	Actual entry (text/value)
14.7	Emergency Action Code: 2YE	Emergency Action Code: 1Z
14.7	UN number: 1219	UN number: 3175
14.7	Proper shipping name: ISOPROPANOL	Proper shipping name: SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S.
14.7	Class: 3	Class: 4.1
14.7	Danger label(s): 3	Danger label(s): 4.1
14.7		Danger label(s): change in the listing (table)
14.7	Special provisions (SP): -	Special provisions (SP): 216, 274
14.7	Limited quantities (LQ): 1 L	Limited quantities (LQ): 1 kg
14.7	EmS: F-E, S-D	EmS: F-A, S-I
14.7	UN number: 1219	UN number: 3175
14.7	Proper shipping name: Isopropanol	Proper shipping name: Solids containing flammable liquid, n.o.s.
14.7	Class: 3	Class: 4.1
14.7	Danger label(s): 3	Danger label(s): 4.1
14.7		Danger label(s): change in the listing (table)
14.7	Special provisions (SP): A180	Special provisions (SP): A46
14.7	Limited quantities (LQ): 1 L	Limited quantities (LQ): 5 kg
15.1		Restrictions according to REACH, Annex XVII: change in the listing (table)
15.1	Directive 2000/60/EC establishing a framework for Community action in the field of water policy (WFD): None of the ingredients are listed.	Water Framework Directive (WFD)
15.1		List of pollutants (WFD): change in the listing (table)

### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
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

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Abbr.	Descriptions of used abbreviations
DGR	Dangerous Goods Regulations (see IATA/DGR)
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
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)
EH40/2005	EH40/2005 Workplace exposure limits ( <a href="http://www.nationalarchives.gov.uk/doc/open-government-licence/">http://www.nationalarchives.gov.uk/doc/open-government-licence/</a> )
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
Flam. Liq.	Flammable liquid
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
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
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)
STEL	Short-term exposure limit
STOT SE	Specific target organ toxicity - single exposure
SVHC	Substance of Very High Concern
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit

### 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 2015/830/EU.



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Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). 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 chapter 2 and 3)

Code	Text
H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

### Disclaimer

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