### SAFE4 PLUS

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Compilation date: 19/06/2017

**Revision No: 4** 

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

# 1.1. Product identifier

Product name: SAFE4 PLUS

Product code: S4.008

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

### 1.3. Details of the supplier of the safety data sheet

Use of substance / mixture: PC35: Washing and cleaning products (including solvent based products).

Company name: Safe Solutions (Safe4) Limited

Bostock Road

Winsford

Cheshire

CW7 3BD

United Kingdom

Tel: +44 (0)1606 591900

Email: info@safe4disinfectant.com

# 1.4. Emergency telephone number

Emergency tel: +44 (0)1606 591900

(office hours only)

# Section 2: Hazards identification

# 2.1. Classification of the substance or mixture

Classification under CLP: Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Eye Dam. 1: H318; Skin Irrit. 2: H315

Most important adverse effects: Causes skin irritation. Causes serious eye damage. Very toxic to aquatic life. Very toxic to

aquatic life with long lasting effects.

#### 2.2. Label elements

Label elements:	
Hazard statements:	H315: Causes skin irritation.
	H318: Causes serious eye damage.
	H400: Very toxic to aquatic life.
	H410: Very toxic to aquatic life with long lasting effects.
Hazard pictograms:	GHS05: Corrosion
	GHS09: Environmental
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 Signal words: Danger

 Precautionary statements:
 P264: Wash hands thoroughly after handling.

 P280: Wear protective gloves/protective clothing/eye protection/face protection.

 P273: Avoid release to the environment.

 P302+350: IF ON SKIN: Gently wash with plenty of soap and water.

 P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

 P309+311: IF exposed or if you feel unwell: Call a POISON CENTER/doctor.

 P502: Refer to manufacturer/supplier for information on recovery/recycling.

# 2.3. Other hazards

**PBT:** This product is not identified as a PBT/vPvB substance.

# Section 3: Composition/information on ingredients

#### 3.2. Mixtures

#### Hazardous ingredients:

### ALCOHOLS, C9-C11, ETHOXYLATE (6 EO)

EINECS	CAS	PBT / WEL	CLP Classification	Percent
-	68439-45-2	-	Acute Tox. 4: H302; Eye Dam. 1: H318	3-5%

### DIDECYLDIMETHYLAMMONIUM CHLORIDE.

230-525-2	7173-51-5	-	Acute Tox. 4: H302; Skin Corr. 1B:	3-5%
			H314; Aquatic Acute 1: H400; Aquatic	
			Chronic 1: H410	

### DIPROPYLENE GLYCOL MONOMETHYL ETHER - REACH registered number(s): 01-2119450011-60-XXXX

252-104-2	34590-94-8	Substance with a Community	-	1-3%
		workplace exposure limit.		

# QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-14 (EVEN-NUMBERED)-ALKYLDIMETHYL, CHLORIDES -REACH registered number(s): 01-2119970550-39-0000

939-350-2	-	-	Acute Tox. 4: H302; Skin Corr. 1B:	1-3%
			H314; Eye Dam. 1: H318; Aquatic	
			Acute 1: H400; Aquatic Chronic 1:	
			H410	

### PROPAN-2-OL - REACH registered number(s): 01-2119457558-25-####

200-661-7	67-63-0	-	Flam. Liq. 2: H225; Eye Irrit. 2: H319;	1-3%	
			STOT SE 3: H336		

# Section 4: First aid measures

### 4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash

immediately with plenty of soap and water.

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Eye contact: Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.
Ingestion: Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor.
Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so.
4.2. Most important symptoms and effects, both acute and delayed
Skin contact: There may be irritation and redness at the site of contact. There may be redness or whiteness of the skin in the area of exposure.
Eye contact: There may be pain and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred. May cause permanent damage.
Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach

ngestion: There may be soreness and redness of the mouth and throat. Nausea and stomac pain may occur.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

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

Immediate / special treatment: Eye bathing equipment should be available on the premises. Show this safety data

sheet to the doctor in attendance. Immediate medical attention is required.

### Section 5: Fire-fighting measures

### 5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray

to cool containers.

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

Exposure hazards: In combustion emits toxic fumes.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact

with skin and eyes.

# Section 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Mark out the contaminated area with signs and prevent access to unauthorised

personnel. Do not attempt to take action without suitable protective clothing - see section

8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

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

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for

disposal by an appropriate method.

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#### 6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS. Refer to section 13 of SDS.

### Section 7: Handling and storage

### 7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area.

Avoid the formation or spread of mists in the air.

# 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed.

Suitable packaging: Must only be kept in original packaging.

# 7.3. Specific end use(s)

# Section 8: Exposure controls/personal protection

### 8.1. Control parameters

Specific end use(s): No data available.

### Hazardous ingredients:

### DIPROPYLENE GLYCOL MONOMETHYL ETHER

# Workplace exposure limits:

# Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	308 mg/m3	-	-	-

### PROPAN-2-OL

UK 999 ma/m3 1250 ma/m3	5	UK	999 mg/m3		-	-
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# **DNEL/PNEC** Values

#### Hazardous ingredients:

### DIDECYLDIMETHYLAMMONIUM CHLORIDE.

Туре	Exposure	Value	Population	Effect
DNEL	Inhalation (repeated dose)	18.2 mg/m³	Workers	Systemic
DNEL	Dermal (repeated dose)	8.6 mg/kg bw/day	Workers	Systemic
PNEC	Fresh water	2 µg/L	-	-
PNEC	Marine water	0.2 µg/L	-	-
PNEC	Fresh water sediments	2.82 mg/kg sediment	-	-
PNEC	Marine sediments	0.28 mg/kg sediment	-	-

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PNEC	Soil (agricultural)	1.4 mg/kg soil dw	-	-

# DIPROPYLENE GLYCOL MONOMETHYL ETHER

Туре	Exposure	Value	Population	Effect
DNEL	Inhalation (repeated dose)	308 mg/m³	Workers	-
DNEL	Dermal (repeated dose)	283 mg/kg bw/day	Workers	-
DNEL	Inhalation (repeated dose)	37.2 mg/m <sup>3</sup>	General Population	-
DNEL	Dermal (repeated dose)	121 mg/kg bw/day	General Population	-
DNEL	Oral (repeated dose)	36 mg/kg bw/day	General Population	-
PNEC	Fresh water	19 mg/L	-	-
PNEC	Marine water	1.9 mg/L	-	-
PNEC	Fresh water sediments	70.2 mg/kg sediment	-	-
PNEC	Marine sediments	7.02 mg/kg sediment	-	-
PNEC	Soil (agricultural)	2.74 mg/kg soil dw	-	-

# QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-14 (EVEN-NUMBERED)-ALKYLDIMETHYL, CHLORIDES

Туре	Exposure	Value	Population	Effect
DNEL	Inhalation (repeated dose)	3.96 mg/m <sup>3</sup>	Workers	-
DNEL	Dermal (repeated dose)	5.7 mg/kg bw/day	Workers	-
DNEL	Inhalation (repeated dose)	1.64 mg/m³	General Population	-
DNEL	Dermal (repeated dose)	3.4 mg/kg bw/day	General Population	-
DNEL	Oral (repeated dose)	3.4 mg/kg bw/day	General Population	-
PNEC	Fresh water	0.001 mg/L	-	-
PNEC	Marine water	0.001 mg/L	-	-
PNEC	Fresh water sediments	12.27 mg/kg sediment	-	-
PNEC	Marine sediments	13.09 mg/kg sediment	-	-
PNEC	Soil (agricultural)	7 mg/kg soil dw	-	-

# PROPAN-2-OL

Туре	Exposure	Value	Population	Effect
DNEL	Inhalation (repeated dose)	500 mg/m³	Workers	Systemic
DNEL	Dermal (repeated dose)	888 mg/kg bw/day	Workers	Systemic
DNEL	Inhalation (repeated dose)	89 mg/m³	General Population	Systemic
DNEL	Dermal (repeated dose)	319 mg/kg bw/day	General Population	Systemic
DNEL	Oral (repeated dose)	26 mg/kg bw/day	General Population	Systemic
PNEC	Fresh water	140.9 mg/L	-	-
PNEC	Marine water	140.9 mg/L	-	-

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PNEC	Fresh water sediments	552 mg/kg sediment d	-	-
PNEC	Marine sediments	552 mg/kg sediment d	-	-
PNEC	Soil (agricultural)	28 mg/kg soil dw	-	-
PNEC	Food chain	160 mg/kg food	-	-

### 8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area. Ensure there is exhaust ventilation of the area. Ensure all engineering measures mentioned in section 7 of SDS are in place.
Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.
Hand protection: Protective gloves. Gloves (alkali-resistant). BS EN 374:2003 Breakthrough time of the glove material > 1 hour.
Eye protection: Tightly fitting safety goggles. Ensure eye bath is to hand.
Skin protection: Protective clothing.
Environmental: Refer to specific Member State legislation for requirements under Community environmental legislation.

# Section 9: Physical and chemical properties

9.1. Information on basic phys	ical and chemical properties		
State:	Liquid		
Colour:	Green		
Odour:	Characteristic odour		
Evaporation rate:	Negligible		
Oxidising:	Non-oxidising (by EC criteria)		
Solubility in water:	Miscible in all proportions		
Viscosity:	No data available.		
Boiling point/range°C:	ca. 100	Melting point/range°C:	ca. 0
Flammability limits %: lower:	No data available.	upper:	No data available.
Flash point°C:	No data available.	Part.coeff. n-octanol/water:	No data available.
Autoflammability°C:	No data available.	Vapour pressure:	No data available.
Relative density:	1.020 - 1.060	pH:	Approx. 7
VOC g/l:	No data available.		

9.2. Other information

Section 10: Stability and reactivity

10.1. Reactivity

Other information: Not applicable.

Reactivity: Stable under recommended transport or storage conditions.

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#### 10.2. Chemical stability

Chemical stability: Stable under normal conditions.

# 10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

Decomposition may occur on exposure to conditions or materials listed below.

# 10.4. Conditions to avoid

Conditions to avoid: Heat.

10.5. Incompatible materials

### **10.6. Hazardous decomposition products**

Materials to avoid: Strong oxidising agents. Strong acids.

Haz. decomp. products: In combustion emits toxic fumes.

# Section 11: Toxicological information

11.1. Information on toxicological effects

#### Hazardous ingredients:

#### DIDECYLDIMETHYLAMMONIUM CHLORIDE.

IPR	RAT	LD50	45	mg/kg
ORL	MUS	LD50	268	mg/kg

# QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-14 (EVEN-NUMBERED)-ALKYLDIMETHYL, CHLORIDES

ORAL RAT LD50	397.5 mg/kg
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IVN	RAT	LD50	1088	mg/kg
ORL	MUS	LD50	3600	mg/kg
ORL	RAT	LD50	5045	mg/kg
SCU	MUS	LDLO	6	gm/kg

# Relevant hazards for product:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated

### Symptoms / routes of exposure

**Skin contact:** There may be irritation and redness at the site of contact. There may be redness or whiteness of the skin in the area of exposure.

Eye contact: There may be pain and redness. The eyes may water profusely. There may be severe

pain. The vision may become blurred. May cause permanent damage.

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Ingestion:	There may be soreness and redness of the mouth and throat. Nausea and stomach	
	pain may occur.	
Inhalation:	There may be irritation of the throat with a feeling of tightness in the chest.	
Delayed / immediate effects:	Immediate effects can be expected after short-term exposure.	
Other information:	Not applicable.	
Section 12: Ecological information		

12.1. Toxicity

# Hazardous ingredients:

# DIDECYLDIMETHYLAMMONIUM CHLORIDE.

Daphnia magna48H EC500.05mg/l
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# QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-14 (EVEN-NUMBERED)-ALKYLDIMETHYL, CHLORIDES

Daphnia magna	48H EC50	0.016	mg/l
FISH	96H LC50	0.515	mg/l

# 12.2. Persistence and degradability

# Persistence and degradability: Biodegradable.

# 12.3. Bioaccumulative potential

# 12.4. Mobility in soil

Bioaccumulative potential: No bioaccumulation potential.

Mobility: Readily absorbed into soil.

# 12.5. Results of PBT and vPvB assessment

### 12.6. Other adverse effects

**PBT identification:** This product is not identified as a PBT/vPvB substance.

Other adverse effects: Negligible ecotoxicity.

# Section 13: Disposal considerations

13.1. Waste treatment methods		
Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal		
	company. Physico-chemical treatment not specified elsewhere in this Annex which	
	results in final compounds or mixtures which are discarded by means of any of the other	
	possible disposal operations (e.g. evaporation, drying, calcination, etc.).	
Recovery operations:	Not applicable.	
Disposal of packaging:	Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.	
NB:	The user's attention is drawn to the possible existence of regional or national	
	regulations regarding disposal.	

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# Section 14: Transport information

14.1. UN number

#### UN number: UN3082

### 14.2. UN proper shipping name

# Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

# (DIDECYLDIMETHYLAMMONIUM CHLORIDE.; QUATERNARY AMMONIUM

# COMPOUNDS, BENZYL-C12-14 (EVEN-NUMBERED)-ALKYLDIMETHYL, CHLORIDES)

### 14.3. Transport hazard class(es)

Transport class: 9

14.4. Packing group

14.5. Environmental hazards

Packing group: III

Environmentally hazardous: Yes

Marine pollutant: No

14.6. Special precautions for user

Special precautions: No special precautions.

Tunnel code: E

Transport category: 3

# Section 15: Regulatory information

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

15.2. Chemical Safety Assessment

Specific regulations: Not applicable.

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture

by the supplier.

# Section 16: Other information

# Other information

Other information:	This safety data sheet is prepared in accordance with Commission Regulation (EU) No
	2015/830.
	* indicates text in the SDS which has changed since the last revision.
Phrases used in s.2 and s.3:	H225: Highly flammable liquid and vapour.
	H302: Harmful if swallowed.
	H314: Causes severe skin burns and eye damage.
	H315: Causes skin irritation.
	H318: Causes serious eye damage.
	H319: Causes serious eye irritation.

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H336: May cause drowsiness or dizziness.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive

and shall be used only as a guide. This company shall not be held liable for any

damage resulting from handling or from contact with the above product.