

**StainBlaster Multi Purpose****Section: 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Product identifier**

Product name : StainBlaster Multi Purpose  
Product code : 116332E  
Use of the Substance/Mixture : Laundry product  
Substance type: : Mixture

**For professional users only.**

Product dilution information : No dilution information provided.

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

Identified uses : Prespotter/Stain remover. Manual process  
Recommended restrictions on use : Reserved for industrial and professional use.

**1.3 Details of the supplier of the safety data sheet**

Company : Ecolab Ltd.  
PO Box 11; Winnington Avenue  
Northwich, Cheshire, United Kingdom CW8 4DX  
+ 44 (0)1606 74488  
ccs@ecolab.com

**1.4 Emergency telephone number**

Emergency telephone number : Food & Beverage, Institutional, Agriculture, Textile Hygiene:  
Northwich: +44 (0)1606 74488  
Healthcare Leeds: +44 (0)113 232 2480  
Healthcare Swansea: +44 (0)1235 239670  
Poison Information Centre telephone number : Not Available

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**Section: 2. HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Skin irritation, Category 2	H315
Eye irritation, Category 2	H319
Skin sensitization, Category 1	H317

**Classification (67/548/EEC, 1999/45/EC)**

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Xi; IRRITANT  
 The classification of this product is based on toxicological assessment.

R38  
 R41  
 R43

For the full text of the R-phrases mentioned in this Section, see Section 16.  
 For the full text of the H-Statements mentioned in this Section, see Section 16.

**2.2 Label elements**

**Labelling (REGULATION (EC) No 1272/2008)**

Hazard pictograms : 

Signal Word : Warning

Hazard Statements : H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H319 Causes serious eye irritation.

Precautionary Statements : **Prevention:**  
 P280 Wear protective gloves/ eye protection/ face protection.

Hazardous components which must be listed on the label:  
 d-Limonene

**2.3 Other hazards**

None known.

**Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS**

**3.2 Mixtures**

**Hazardous components**

Chemical Name	CAS-No. EC-No. REACH No.	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration: [%]
distillates (petroleum), hydrotreated light	64742-47-8 265-149-8	Xn; R65	Flammable liquids Category 3; H226 Aspiration hazard Category 1; H304	>= 10 - < 20
Organic sulfonic acid salt	27323-41-7 248-406-9	Xi; R36	Eye irritation Category 2; H319	>= 10 - < 20
alcohols, c12-16, ethoxylated	68551-12-2	Xn; R22-R41- R38	Acute toxicity Category 4; H302 Skin irritation Category 2; H315 Serious eye damage Category 1; H318	>= 10 - < 20

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fatty acids, tall-oil, compds. with triethanolamine	68132-46-7 268-638-4		Eye irritation Category 2; H319	$\geq 5 - < 10$
fatty acids, coco, compds. with triethanolamine	61790-64-5 263-155-5	Xi; R36-R38	Skin irritation Category 2; H315 Eye irritation Category 2; H319	$\geq 5 - < 10$
Polymer based on longchain alcohol C10 ethoxylated		Xi; R41	Serious eye damage/eye irritation Category 1; H318	$\geq 3 - < 5$
Fattyalcohol ethoxylates > 5EO	68131-39-5 500-195-7	Xn; R22 Xi; R41-R38	Acute toxicity Category 4; H302 Skin irritation Category 2; H315 Serious eye damage Category 1; H318	$\geq 3 - < 5$
d-Limonene	5989-27-5 227-813-5 01-2119529223-47	Xi-N; R10-R38- R43-R50/53	Nota C Flammable liquids Category 3; H226 Skin irritation Category 2; H315 Skin sensitization Category 1; H317 Acute aquatic toxicity Category 1; H400 Chronic aquatic toxicity Category 1; H410	$\geq 1 - < 2.5$
potassium hydroxide	1310-58-3 215-181-3 01-2119487136-33	Xn-C; R22-R35	Acute toxicity Category 4; H302 Skin corrosion Category 1A; H314 Corrosive to metals Category 1; H290	$\geq 1 - < 2$
amines, coco alkyl dimethyl, n-oxides	61788-90-7 263-016-9	Xn-N; R22- R36/38-R50	Acute toxicity Category 4; H302 Skin irritation Category 2; H315 Eye irritation Category 2; H319 Acute aquatic toxicity Category 1; H400	$\geq 0.5 - < 1$
subtilisin	9014-01-1 232-752-2 01-2119480434-38	Xi; R37/38- R41-R42	Skin irritation Category 2; H315 Serious eye damage Category 1; H318 Respiratory sensitization Category 1; H334 Specific target organ toxicity - single exposure Category 3; H335	$\geq 0.1 - < 0.25$
Primary, Secondary, Tertiary alkylamines	112-18-5 203-943-8 01-2119485584-26	C-N; R35-R22- R50	Acute toxicity Category 4; H302 Skin corrosion Category 1A; H314 Serious eye damage Category 1; H318 Acute aquatic toxicity Category 1; H400	$< 0.1$
Amines (incl.	112-75-4	Xn-N; R22-	Acute toxicity Category 4;	$< 0.1$

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ethanolamines)	204-002-4 01-2119485584-26	R38-R41-R50	H302 Skin irritation Category 2; H315 Serious eye damage Category 1; H318 Acute aquatic toxicity Category 1; H400	
WEL substance :				
Propylene glycol	57-55-6 200-338-0 01-2119456809-23			>= 10 - < 20

For the full text of the R-phrases mentioned in this Section, see Section 16.  
For the full text of the H-Statements mentioned in this Section, see Section 16.

**Section: 4. FIRST AID MEASURES**

**4.1 Description of first aid measures**

- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.
- In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
- If swallowed : Rinse mouth. Get medical attention if symptoms occur.
- If inhaled : Get medical attention if symptoms occur.

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

See Section 11 for more detailed information on health effects and symptoms.

**4.3 Indication of immediate medical attention and special treatment needed**

- Treatment : Treat symptomatically.

**Section: 5. FIREFIGHTING MEASURES**

**5.1 Extinguishing media**

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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Unsuitable extinguishing media : None known.

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

Specific hazards during firefighting : Not flammable or combustible.

Hazardous combustion products : Decomposition products may include the following materials:  
Carbon oxides  
nitrogen oxides (NO<sub>x</sub>)  
Sulphur oxides  
Oxides of phosphorus

**5.3 Advice for firefighters**

Special protective equipment for firefighters : Use personal protective equipment.

Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

**Section: 6. ACCIDENTAL RELEASE MEASURES**

**6.1 Personal precautions, protective equipment and emergency procedures**

Advice for non-emergency personnel : Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

Advice for emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.

**6.2 Environmental precautions**

Environmental precautions : Do not allow contact with soil, surface or ground water.

**6.3 Methods and materials for containment and cleaning up**

Methods for cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

**6.4 Reference to other sections**

See Section 1 for emergency contact information.  
For personal protection see section 8.  
See Section 13 for additional waste treatment information.

**Section: 7. HANDLING AND STORAGE**

**7.1 Precautions for safe handling**

Advice on safe handling : Avoid contact with skin and eyes. Do not get in eyes, on skin, or

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on clothing. Use only with adequate ventilation. Wash hands thoroughly after handling.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling.

**7.2 Conditions for safe storage, including any incompatibilities**

Requirements for storage areas and containers : Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.

Storage temperature : 0 °C to 40 °C

**7.3 Specific end uses**

Specific use(s) : Prespotter/Stain remover. Manual process

**Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Control parameters**

**Occupational Exposure Limits**

CAS-No.	Components	Value type (Form of exposure)	Control parameters	Update	Basis
57-55-6	Propylene glycol	TWA (particles)	10 mg/m <sup>3</sup>	2011-12-01	UKCOSSTD
		TWA (Total vapour and particles)	150 ppm 474 mg/m <sup>3</sup>	2011-12-01	UKCOSSTD
1310-58-3	potassium hydroxide	STEL	2 mg/m <sup>3</sup>	2005-04-06	UKCOSSTD
9014-01-1	subtilisin	TWA	0.00004 mg/m <sup>3</sup>	2011-12-01	UKCOSSTD

**DNEL**

potassium hydroxide	:	End Use: Workers Exposure routes: Inhalation Value: 1 mg/m <sup>3</sup>
		End Use: Consumers Exposure routes: Inhalation Value: 1 mg/m <sup>3</sup>
Propylene glycol	:	End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 168 mg/m <sup>3</sup>
		End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term local effects Value: 10 mg/m <sup>3</sup>

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	End Use: Consumers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 50 mg/m3
	End Use: Consumers Exposure routes: Inhalation Potential health effects: Long-term local effects Value: 10 mg/m3
	End Use: Consumers Exposure routes: Dermal Potential health effects: Long-term systemic effects Value: 213 mg/cm2
	End Use: Consumers Exposure routes: Ingestion Potential health effects: Long-term systemic effects Value: 85 ppm

**PNEC**

Propylene glycol	:	Fresh water Value: 260 mg/l
		Marine water Value: 26 mg/l
		Intermittent use/release Value: 183 mg/l
		Fresh water sediment Value: 572 mg/kg
		Marine sediment Value: 57.2 mg/kg
		Sewage treatment plant Value: 20000 mg/l
		Soil Value: 50 mg/kg

**8.2 Exposure controls**

**Appropriate engineering controls**

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

**Individual protection measures**

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling.

Eye/face protection (EN 166) : Safety glasses with side-shields

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- Hand protection (EN 374) : Wear the following personal protective equipment:  
Nitrile rubber  
butyl-rubber  
Impervious gloves  
Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
- Skin and body protection (EN 14605) : No special protective equipment required.
- Respiratory protection (EN 143, 14387) : None required if airborne concentrations are maintained below the exposure limit listed in Exposure Limit Information. Use certified respiratory protection equipment meeting EU requirements(89/656/EEC, 89/686/EEC ), or equivalent, when respiratory risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization.

**Environmental exposure controls**

- General advice : Consider the provision of containment around storage vessels.

**Section: 9. PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties**

- Appearance : liquid
- Colour : clear, yellow
- Odour : citrus
- pH : 7.5 - 8.7, 100 %
- Flash point : Not applicable.
- Odour Threshold : Not applicable and/or not determined for the mixture
- Melting point/freezing point : Not applicable and/or not determined for the mixture
- Initial boiling point and boiling range : Not applicable and/or not determined for the mixture
- Evaporation rate : Not applicable and/or not determined for the mixture
- Flammability (solid, gas) : Not applicable and/or not determined for the mixture
- Upper explosion limit : Not applicable and/or not determined for the mixture
- Lower explosion limit : Not applicable and/or not determined for the mixture
- Vapour pressure : Not applicable and/or not determined for the mixture
- Relative vapour density : Not applicable and/or not determined for the mixture
- Relative density : 0.95 - 1.05
- Water solubility : Not applicable and/or not determined for the mixture
- Solubility in other solvents : Not applicable and/or not determined for the mixture
- Partition coefficient: n-octanol/water : Not applicable and/or not determined for the mixture
- Auto-ignition temperature : Not applicable and/or not determined for the mixture



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Thermal decomposition : Not applicable and/or not determined for the mixture  
Viscosity, kinematic : 68.000 mm<sup>2</sup>/s (40 °C)

Explosive properties : Not applicable and/or not determined for the mixture  
Oxidizing properties : Not applicable and/or not determined for the mixture

**9.2 Other information**

Not applicable and/or not determined for the mixture

**Section: 10. STABILITY AND REACTIVITY**

**10.1 Reactivity**

No dangerous reaction known under conditions of normal use.

**10.2 Chemical stability**

Stable under normal conditions.

**10.3 Possibility of hazardous reactions**

No dangerous reaction known under conditions of normal use.

**10.4 Conditions to avoid**

None known.

**10.5 Incompatible materials**

None known.

**10.6 Hazardous decomposition products**

Decomposition products may include the following materials:

Carbon oxides  
nitrogen oxides (NO<sub>x</sub>)  
Sulphur oxides  
Oxides of phosphorus

**Section: 11. TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects**

Information on likely routes of exposure : Inhalation, Eye contact, Skin contact

**Toxicity**

Acute oral toxicity : Acute toxicity estimate : > 2,000 mg/kg  
Acute inhalation toxicity : There is no data available for this product.  
Acute dermal toxicity : There is no data available for this product.

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- Skin corrosion/irritation : There is no data available for this product.
- Serious eye damage/eye irritation : Eye irritation
- Respiratory or skin sensitization : There is no data available for this product.
- Carcinogenicity : There is no data available for this product.
- Reproductive effects : There is no data available for this product.
- Germ cell mutagenicity : There is no data available for this product.
- Teratogenicity : There is no data available for this product.
- STOT - single exposure : There is no data available for this product.
- STOT - repeated exposure : There is no data available for this product.
- Aspiration toxicity : There is no data available for this product.

**Components**

- Acute oral toxicity : distillates (petroleum), hydrotreated light  
LD50 rat: > 5,000 mg/kg
- alcohols, c12-16, ethoxylated  
LD50 rat: 1,100 mg/kg
- fatty acids, tall-oil, compds. with triethanolamine  
LD50 rat: 1,407 mg/kg
- fatty acids, coco, compds. with triethanolamine  
LD50 rat: 6,400 mg/kg
- Fattyalcohol ethoxylates > 5EO  
LD50 rat: 1,700 mg/kg
- d-Limonene  
LD50 rat: 4,400 mg/kg
- potassium hydroxide  
LD50 rat: 333 mg/kg
- amines, coco alkyl dimethyl, n-oxides  
LD50 rat: 846 mg/kg
- subtilisin  
LD50 rat: 1,800 mg/kg
- Primary, Secondary, Tertiary alkylamines  
LD50 rat: 1,450 mg/kg
- Amines (incl. ethanolamines)  
LD50 rat: 1,460 mg/kg
- Propylene glycol  
LD50 rat: 22,000 mg/kg

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**Components**

Acute inhalation toxicity : Propylene glycol  
4 h LC50 rat: > 158.5 mg/l

**Components**

Acute dermal toxicity : alcohols, c12-16, ethoxylated  
LD50 rabbit: > 2,000 mg/kg

Fattyalcohol ethoxylates > 5EO  
LD50 rat: > 2,000 mg/kg

d-Limonene  
LD50 rabbit: > 5,000 mg/kg

amines, coco alkyldimethyl, n-oxides  
LD50 rat: > 2,174 mg/kg

**Potential Health Effects**

Eyes : Causes serious eye irritation.

Skin : Causes skin irritation. May cause allergic skin reaction.

Ingestion : Health injuries are not known or expected under normal use.

Inhalation : Health injuries are not known or expected under normal use.

Chronic Exposure : Health injuries are not known or expected under normal use.

**Experience with human exposure**

Eye contact : Redness, Pain, Irritation

Skin contact : Redness, Irritation, Allergic reactions

Ingestion : No symptoms known or expected.

Inhalation : No symptoms known or expected.

**Section: 12. ECOLOGICAL INFORMATION**

**12.1 Ecotoxicity**

Environmental Effects : This product has no known ecotoxicological effects.

**Product**

Toxicity to fish : 96 h LC50: 5.7 mg/l

Toxicity to daphnia and other aquatic invertebrates : no data available

Toxicity to algae : no data available

**Components**

Toxicity to fish : distillates (petroleum), hydrotreated light  
96 h LC50: > 1,000 mg/l

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Organic sulfonic acid salt  
96 h LC50: 2.5 mg/l

alcohols, c12-16, ethoxylated  
96 h LC50 Fish: 1.5 mg/l

fatty acids, coco, compds. with triethanolamine  
96 h LC50: 11,800 mg/l

Fattyalcohol ethoxylates > 5EO  
96 h LC50 Pimephales promelas (fathead minnow): 1.4 mg/l

amines, coco alkyldimethyl, n-oxides  
96 h LC50 Fish: 1 mg/l

Propylene glycol  
96 h LC50: > 10,000 mg/l

**Components**

Toxicity to daphnia and other aquatic invertebrates : distillates (petroleum), hydrotreated light  
72 h EC50: > 1,000 mg/l

subtilisin  
48 h EC50: 1.4 mg/l

Propylene glycol  
48 h EC50: 18,340 mg/l

**Components**

Toxicity to algae : distillates (petroleum), hydrotreated light  
48 h EC50: > 1,000 mg/l

Primary, Secondary, Tertiary alkylamines  
72 h EC50: 0.024 mg/l

Amines (incl. ethanolamines)  
72 h EC50: 0.03 mg/l

Propylene glycol  
96 h EC50: 19,000 mg/l

**12.2 Persistence and degradability**

**Product**

Biodegradability : The surfactants contained in the product are biodegradable according to the requirements of the detergent regulation 648/2004/EC

**Components**

Biodegradability : distillates (petroleum), hydrotreated light  
Result: Readily biodegradable.

Organic sulfonic acid salt  
Result: Biodegradable

alcohols, c12-16, ethoxylated

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Result: Readily biodegradable.

fatty acids, coco, compds. with triethanolamine  
Result: Readily biodegradable.

Polymer based on longchain alcohol C10 ethoxylated  
Result: Readily biodegradable.

Fattyalcohol ethoxylates > 5EO  
Result: Readily biodegradable.

d-Limonene  
Result: Readily biodegradable.

potassium hydroxide  
Result: Not applicable - inorganic

amines, coco alkyldimethyl, n-oxides  
Result: Readily biodegradable.

subtilisin  
Result: Readily biodegradable.

Propylene glycol  
Result: Readily biodegradable.

**12.3 Bioaccumulative potential**

no data available

**12.4 Mobility in soil**

no data available

**12.5 Results of PBT and vPvB assessment**

**Product**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**12.6 Other adverse effects**

no data available

**Section: 13. DISPOSAL CONSIDERATIONS**

Dispose of in accordance with the European Directives on waste and hazardous waste. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

**13.1 Waste treatment methods**

Product : Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

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Contaminated packaging : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers. Dispose of in accordance with local, state, and federal regulations.

European Waste Catalogue : 200129\* - detergents containing dangerous substances

**Section: 14. TRANSPORT INFORMATION**

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

**Land transport (ADR/ADN/RID)**

14.1 UN number : Not dangerous goods  
14.2 UN proper shipping name : Not dangerous goods  
14.3 Transport hazard class(es) : Not dangerous goods  
14.4 Packing group : Not dangerous goods  
14.5 Environmental hazards : Not dangerous goods  
14.6 Special precautions for user : Not dangerous goods

**Air transport (IATA)**

14.1 UN number : Not dangerous goods  
14.2 UN proper shipping name : Not dangerous goods  
14.3 Transport hazard class(es) : Not dangerous goods  
14.4 Packing group : Not dangerous goods  
14.5 Environmental hazards : Not dangerous goods  
14.6 Special precautions for user : Not dangerous goods

**Sea transport (IMDG/IMO)**

14.1 UN number : Not dangerous goods  
14.2 UN proper shipping name : Not dangerous goods  
14.3 Transport hazard class(es) : Not dangerous goods  
14.4 Packing group : Not dangerous goods  
14.5 Environmental hazards : Not dangerous goods  
14.6 Special precautions for user : Not dangerous goods  
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not dangerous goods

**Section: 15. REGULATORY INFORMATION**

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

according to Detergents Regulation EC 648/2004 : 30 % and more: Non-ionic surfactants  
15 % or over but less than 30 %: Aliphatic hydrocarbons

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5 % or over but less than 15 %: Soap  
Other constituents: Enzymes  
Contains: Perfumes  
d-Limonene

**National Regulations**

**Take note of Dir 94/33/EC on the protection of young people at work.**

Other regulations : The Chemicals (Hazard Information and Packaging for Supply) Regulations.  
The Control of Substances Hazardous to Health Regulations.  
Health and Safety at Work Act.

**15.2 Chemical Safety Assessment**

This product contains substances for which Chemical Safety Assessments are still required.

**Section: 16. OTHER INFORMATION**

**Full text of R-Phrases**

R10	Flammable.
R22	Harmful if swallowed.
R35	Causes severe burns.
R36	Irritating to eyes.
R36/38	Irritating to eyes and skin.
R37/38	Irritating to respiratory system and skin.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.
R42	May cause sensitization by inhalation.
R43	May cause sensitization by skin contact.
R50	Very toxic to aquatic organisms.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.

**Full text of H-Statements**

H226	Flammable liquid and vapour.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

**Full text of other abbreviations**

Prepared by : Regulatory Affairs

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Numbers quoted in the MSDS are given in the format: 1,000,000 = 1 million and 1,000 = 1 thousand. 0.1 = 1 tenth and 0.001 = 1 thousandth

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**ANNEX: EXPOSURE SCENARIOS**

**DPD+ Substances:**

The following substances are the lead substances that contribute to the mixture Exposure Scenario according to the DPD+ Rule:

Route	Substance	CAS-No.	EINECS-No.
Respiratory sensitiser	subtilisin	9014-01-1	232-752-2
Ingestion	potassium hydroxide	1310-58-3	215-181-3
Inhalation	potassium hydroxide	1310-58-3	215-181-3
Dermal	potassium hydroxide	1310-58-3	215-181-3
Eyes	alcohols, c12-16, ethoxylated	68551-12-2	
aquatic environment	d-Limonene	5989-27-5	227-813-5

**Physical properties DPD+ Substances:**

Substance	Vapour pressure	Water solubility	Pow	Molar Mass
potassium hydroxide		1,120 g/l		56.11 g/mol
d-Limonene	200 Pa	12.3 mg/l	23,988	

To calculate if your downstream Operating Conditions and Risk management Measures are safe, please calculate your risk factor at the website below:

[www.ecetoc.org/tra](http://www.ecetoc.org/tra)

**Short title of Exposure Scenario** : **Prespotter/Stain remover. Manual process**

**Use descriptors**

Main User Groups : Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Sectors of end-use : **SU22:** Professional uses: Public domain (administration, education, entertainment, services, craftsmen)



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- Process categories : **PROC10:** Roller application or brushing  
**PROC11:** Non industrial spraying
- Product categories : **PC35:** Washing and cleaning products (including solvent based products)
- Environmental Release Categories : **ERC8a:** Wide dispersive indoor use of processing aids in open systems