SAPRIT PROTECT FF

Section: 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name	:	SAPRIT PROTECT FF
Product code	:	118459E
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	:	Laundry aid (non-gasing). Automatic 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	:	+441618841235 +32-(0)3-575-5555 Trans-European
Poison Information Centre telephone number	:	For medical professionals only: 0344 892 0111

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Version : 1.4

Section: 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Eye irritation, Category 2	H319

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H319 Causes serious eye irritation.

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

Additional Labelling:
Special labelling of certain mixtures : Contains: PROPANIMIDAMIDE, 2,2'-AZOBIS[2-METHYL-, DIHYDROCHLORIDE, Octadecyl acrylate, formaldehyde, tert-butyl hydroperoxide, A mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1), May produce an allergic reaction.

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 REGULATION (EC) No 1272/2008	Concentration : [%]
Fattyalcohol ethoxylates =/< C15 and =/< 5EO	61827-42-7	Acute toxicity Category 4; H302 Serious eye damage Category 1; H318	>= 1 - < 3
PROPANIMIDAMIDE, 2,2'-AZOBIS[2-METHYL-, DIHYDROCHLORIDE	2997-92-4 01-2119987319-20	Acute toxicity Category 4; H302 Skin sensitization Category 1; H317	>= 0.1 - < 1
Octadecyl acrylate	4813-57-4 225-383-3	Skin irritation Category 2; H315 Eye irritation Category 2; H319 Specific target organ toxicity - single exposure Category 3; H335 Chronic aquatic toxicity Category 2; H411 Skin sensitization Category 1; H317 Specific target organ toxicity - single exposure Category 3 H335 >= 10 %	>= 0.1 - < 0.25
formaldehyde	50-00-0 200-001-8 01-2119488953-20	Nota B, Nota D Acute toxicity Category 3; H301 Acute toxicity Category 3; H331 Acute toxicity Category 3; H311 Skin corrosion Category 1B; H314 Skin sensitization Category 1; H317 Germ cell mutagenicity Category 2; H341 Carcinogenicity Category 1B; H350 Specific target organ toxicity - single exposure Category 3; H335	< 0.1

		Serious eye damage/eye irritation Category 2A 5 - 25 % Skin corrosion/irritation Category 1B 25 - 100 % Skin corrosion/irritation Category 2 5 - 25 % Specific target organ toxicity - single exposure Category 3 H335 >= 5 % Skin sensitization Category 1 >= 0.2 %	
tert-butyl hydroperoxide	75-91-2 01-2119446670-40	Flammable liquids Category 3; H226 Oxidizing liquids Category 1; H271 Organic peroxides Type F; H242 Acute toxicity Category 4; H302 Acute toxicity Category 2; H330 Acute toxicity Category 3; H311 Skin corrosion Category 1C; H314 Serious eye damage Category 1; H318 Skin sensitization Sub-category 1A; H317 Germ cell mutagenicity Category 2; H341 Specific target organ toxicity - single exposure Category 3; H335 Chronic aquatic toxicity Category 2; H411 Serious eye damage/eye irritation Category 1 > 1 % Specific target organ toxicity - single exposure Category 3 >= 5 %	>= 0.025 - < 0.1
A mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	55965-84-9 01-2120764691-48	Acute toxicity Category 3; H301 Acute toxicity Category 2; H330 Acute toxicity Category 2; H310 Skin corrosion Sub-category 1C; H314 Serious eye damage Category 1; H318 Skin sensitization Sub-category 1A; H317 Acute aquatic toxicity Category 1; H400 Chronic aquatic toxicity Category 1; H410 Skin corrosion Category 1C H314 >= 0.6 % Skin irritation Category 2 H315 0.06 - < 0.6 % Eye irritation Category 2 H319 0.06 - < 0.6 % Skin sensitization Category 1A H317 >= 0.0015 % Serious eye damage Category 1 H318 >= 0.6 % M = 100 M(Chronic) = 100	<= 0.0002

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	:	Rinse with plenty of water.
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.
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	:	Depending on combustion properties, decomposition products may include following materials: Carbon oxides

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). Flush away traces with water. 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. Use only with adequate ventilation. Wash hands thoroughly after handling. In case of mechanical malfunction, or if in contact with unknown dilution of product, wear full Personal Protective Equipment (PPE). Minimise the environmental release.

Avoid contact with skin and eyes. Use only with adequate ventilation. Wash hands thoroughly after handling. In case of mechanical malfunction, or if in contact with unknown dilution of product, wear full Personal Protective Equipment (PPE).

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 : Protect from frost, heat and sunlight. Store at room temperature in the original container. 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) : Laundry aid (non-gasing). Automatic process

Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
formaldehyde	50-00-0	TWA	0.3 ppm 0.37 mg/m3	2004/37/EC
Further information		Dermal sensitisation		
		Carcinogens or mutagens		

		STEL	0.6 ppm 0.74 mg/m3	2004/37/EC
Further information		Dermal sensitisation		
		Carcinogens or mutagens		
		TWA	2 ppm 2.5 mg/m3	UKCOSSTD
Further information	Carc	Capable of causing cancer and/or heritable genetic damage.		
		STEL	2 ppm 2.5 mg/m3	UKCOSSTD
Further information	Carc	Capable of causing cancer and/or heritable genetic damage.		

DNEL

Octadecyl acrylate	:	End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 97.9 mg/m3 End Use: Workers Exposure routes: Dermal Potential health effects: Long-term systemic effects Value: 138.9 mg/cm2
formaldehyde	:	End Use: Workers Exposure routes: Inhalation Potential health effects: Acute local effects Value: 1 mg/m3 End Use: Workers Exposure routes: Dermal Potential health effects: Long-term systemic effects Value: 240 mg/cm2 End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 9 ppm End Use: Workers Exposure routes: Dermal Potential health effects: Long-term local effects Value: 3700 mg/cm2 End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term local effects Value: 0.5 mg/m3 End Use: Consumers Exposure routes: Dermal Potential health effects: Long-term systemic effects Value: 102 mg/cm2 End Use: Consumers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 3.2 ppm End Use: Consumers Exposure routes: Ingestion

		Potential health effects: Long-term systemic effects Value: 4.1 mg/m3 End Use: Consumers Exposure routes: Dermal Potential health effects: Long-term local effects Value: 1200 mg/cm2 End Use: Consumers Exposure routes: Inhalation Potential health effects: Long-term local effects Value: 0.1 ppm
A mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	:	End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term local effects Value: 0.02 mg/m3 End Use: Workers Exposure routes: Inhalation Potential health effects: Acute local effects Value: 0.04 mg/m3 End Use: General population Exposure routes: Inhalation Potential health effects: Long-term local effects Value: 0.02 mg/m3 End Use: General population Exposure routes: Inhalation Potential health effects: Acute local effects Value: 0.04 mg/m3 End Use: General population Exposure routes: Oral Potential health effects: Long-term systemic effects Value: 0.09 mg/kg bw/day End Use: General population Exposure routes: Oral Potential health effects: Acute systemic effects Value: 0.11 mg/kg bw/day

PNEC

Octadecyl acrylate	:	Fresh water Value: 2 mg/l Marine water Value: 0.2 mg/l Intermittent use/release Value: 1 mg/l Fresh water sediment Value: 5032 mg/kg

		Marine sediment Value: 503.2 mg/kg Sewage treatment plant Value: 100 mg/l Soil Value: 1002.37 mg/kg
formaldehyde	:	Fresh water Value: 0.47 mg/l Marine water Value: 0.47 mg/l Intermittent use/release Value: 4.7 mg/l Fresh water sediment Value: 2.44 mg/kg Marine sediment Value: 2.44 mg/kg Sewage treatment plant Value: 0.19 mg/l Soil Value: 0.21 mg/kg
A mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	:	Fresh water Value: 0.00339 mg/l Intermittent use/release Value: 0.00339 mg/l Marine water Value: 0.00339 mg/l Sewage treatment plant Value: 0.23 mg/l Fresh water sediment Value: 0.027 mg/kg Marine sediment Value: 0.037 mg/kg Soil Value: 0.01 mg/kg

8.2 Exposure controls

Appropriate engineering controls

Engineering measures	:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

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
Hand protection (EN 374)	:	No special protective equipment required.
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, (EU) 2016/425), 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	:	milky, white
Odour	:	characteristic
pH	:	4.0 - 6.0, 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	:	> 100 °C
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	:	0.99 - 1.1
Water solubility	:	soluble
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
Thermal decomposition	:	Not applicable and/or not determined for the mixture
Viscosity, kinematic	:	Not applicable and/or not determined for the mixture
Explosive properties	:	Not applicable and/or not determined for the mixture
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.

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

In the event of fire, see Section 5

Section: 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

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

Product

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.

Skin corrosion/irritation	:	There is no data available for this product.
Serious eye damage/eye irritation	:	There is no data available for this product.
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	:	PROPANIMIDAMIDE, 2,2'-AZOBIS[2-METHYL-, DIHYDROCHLORIDE LD50 rat: 410 mg/kg tert-butyl hydroperoxide LD50 rat: 560 mg/kg A mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) LD50 rat: 64 mg/kg

Components

Acute inhalation toxicity	:	tert-butyl hydroperoxide 4 h LC50 rat: 1.8 mg/l Test atmosphere: vapour A mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) 4 h LC50 rat: 0.171 mg/l Test atmosphere: dust/mist

Components

Acute dermal toxicity	:	Octadecyl acrylate LD50 rat: > 5,000 mg/kg tert-butyl hydroperoxide LD50 rabbit: 440 mg/kg A mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) LD50 rabbit: 87.12 mg/kg

Potential Health Effects

Eyes	:	Causes serious eye irritation.
Skin	:	Health injuries are not known or expected under normal use.
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	:	No symptoms known or expected.
Ingestion	:	No symptoms known or expected.
Inhalation	:	No symptoms known or expected.

Section: 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Environmental Effects	:	This product has no known ecotoxicological effects.

Product

Toxicity to fish	:	no data available
Toxicity to daphnia and other aquatic invertebrates	:	no data available
Toxicity to algae	:	no data available

Components

Toxicity to fish	:	Octadecyl acrylate96 h LC50 Danio rerio (zebra fish): > 100 mg/l tert-butyl hydroperoxide96 h LC50 Pimephales promelas (fathead minnow): 29.6 mg/l A mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)96 h LC50 Oncorhynchus mykiss (rainbow trout): 0.19 mg/l

Components

Toxicity to daphnia and other aquatic invertebrates	:	PROPANIMIDAMIDE, 2,2'-AZOBIS[2-METHYL-, DIHYDROCHLORIDE48 h EC50: 0.5 mg/l Octadecyl acrylate48 h EC50 Daphnia magna (Water flea): > 100 mg/l formaldehyde48 h EC50: 5.8 mg/l tert-butyl hydroperoxide48 h EC50 Daphnia magna (Water flea): 14.1 mg/l A mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)48 h EC50 Daphnia magna Straus: 0.16 mg/l

Components

Toxicity to algae	:	Octadecyl acrylate72 h EC50 Desmodesmus subspicatus (green algae): > 100 mg/l formaldehyde72 h EC50: 3.48 mg/l

tert-butyl hydroperoxide72 h EC50 Pseudokirchneriella subcapitata (algae): 1.5 mg/l

A mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)72 h EC50 Skeletonema costatum (marine diatom): 0.037 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 : Fattyalcohol ethoxylates =/< C15 and =/< 5EOResult: Readily biodegradable.

PROPANIMIDAMIDE, 2,2'-AZOBIS[2-METHYL-, DIHYDROCHLORIDEResult: Poorly biodegradable

Octadecyl acrylateResult: Biodegradable

formaldehydeResult: Readily biodegradable.

tert-butyl hydroperoxideResult: Poorly biodegradable

A mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)Result: 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 contents/container in accordance with local regulations. Dispose of wastes in an approved waste disposal facility.
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.
Guidance for Waste Code selection	:	Organic wastes containing dangerous substances. If this product is used in any further processes, the final user must redefine and assign the most appropriate European Waste Catalogue Code. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable European (EU Directive 2008/98/EC) and local regulations.

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	:	less than 5 %: Non-ionic surfactants Preservation agents: formaldehyde A mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)
Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.	:	Not applicable.
Candidate List of Substances of Very High Concern for Authorisation	:	Not applicable.

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

No Chemical Safety Assessment has been carried out on the product.

Section: 16. OTHER INFORMATION

Procedure used to derive the classification according to REGULATION (EC) No 1272/2008

Classification	Justification
Eye irritation 2, H319	Calculation method

Full text of H-Statements

H226	Flammable liquid and vapour.
H242	Heating may cause a fire.
H271	May cause fire or explosion; strong oxidiser.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H311	Toxic in contact with skin.
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.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Prepared by : Regulatory Affairs

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

Exposure Scenario: Laundry aid (non-gasing). Automatic process

Life Cycle Stage	:	Use at industrial sites	
Product category	:	**PC35**	Washing and cleaning products (including solvent based products)

Contributing scenario controlling environmental exposure for:

Environmental release category	:	**ERC4**	Industrial use of processing aids in processes and products, not becoming part of articles
Daily amount per site	:	50 kg	
Type of Sewage Treatment Plant	:	Municipal sewage treatment plant	

Contributing scenario controlling worker exposure for:

Process category	:	**PROC8b**	Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities
Exposure duration	:	60 min	
Operational conditions and risk management measures	:	Indoor	
		Local Exhaust Ventilation is not required	
General ventilation		Ventilation rate per hour	1
Skin Protection	:	see section 8	
Respiratory Protection	:	see section 8	

Contributing scenario controlling worker exposure for:

Process category	:	**PROC2**	Use in closed, continuous process with occasional controlled exposure
Exposure duration	:	480 min	
Operational conditions and risk management measures	:	Indoor	
		Local Exhaust Ventilation is not required	
General ventilation		Ventilation rate per hour	1

Skin Protection	:	see section 8
Respiratory Protection	:	see section 8