

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

1.1 Product identifier

Product name	:	Mikro Chlor
Product code	:	114786E
Use of the Substance/Mixture	:	Surface Disinfectant
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	:	Surface disinfectant. Manual process
Recommended restrictions on use	:	Reserved for industrial and professional use.

1.3 Details of the supplier of the safety data sheet

PO Box 11; Winnington Avenue Northwich, Cheshire, United Kingdom CW8 + 44 (0)1606 74488 ccs@ecolab.com	3 4DX
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1.4 Emergency telephone number

Emergency telephone number	:	+441618841235 +32-(0)3-575-5555 Trans-European
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 corrosion, Category 1B	H314
Serious eye damage, Category 1	H318
Chronic aquatic toxicity, Category 2	H411

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :		¥_2
Signal Word :	Danger	
Hazard Statements :	H314 H411	Causes severe skin burns and eye damage. Toxic to aquatic life with long lasting effects.
Supplemental Hazard : Statements	EUH031	Contact with acids liberates toxic gas.
Precautionary Statements :	Prevention:	
	P260	Do not breathe dust.
	P273	Avoid release to the environment.
	P280	Wear protective gloves/ eye protection/ face protection.
	Response:	
	P303 + P361 + P3	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
	P305 + P351 + P3	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P310	Immediately call a POISON CENTER/doctor.

Hazardous components which must be listed on the label: sodium metasilicate

2.3 Other hazards

Mixing this product with acid or ammonia releases chlorine gas.

Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous components

Chemical Name	CAS-No. EC-No. REACH No.	ClassificationREGULATION (EC) No 1272/2008	Concentration: [%]
Sodium Carbonate	497-19-8 207-838-8 01-2119485498-19	Eye irritation Category 2; H319	>= 10 - < 20
Sodium dichloroisocyanurate dihydrate	51580-86-0 01-2119489371-33	Acute toxicity Category 4; H302 Eye irritation Category 2; H319 Specific target organ toxicity - single exposure Category 3; H335 Acute aquatic toxicity Category 1; H400 Chronic aquatic toxicity Category 1; H410	>= 5 - < 10
sodium metasilicate	6834-92-0 229-912-9 01-2119449811-37	Skin corrosion Category 1B; H314 Specific target organ toxicity - single exposure Category 3; H335	>= 5 - < 10

sodium dodecylbenzene	25155-30-0 246-680-4	Acute toxicity Category 4; H302 Skin irritation Category 2; H315	>= 3 - < 5
	01-2120088038-51	Serious eye damage Category 1; H318	
Alcohols, C13-15, branched and linear, ethoxylated	157627-86-6	Acute toxicity Category 4; H302 Skin irritation Category 2; H315 Serious eye damage Category 1; H318 Acute aquatic toxicity Category 1; H400	>= 1 - < 2.5
Substances with a workp	lace exposure limit :		
precipitated silica	112926-00-8		>= 0.5 - < 1
For the full text of the H-	Statements mentioned	in this Section, see Section 16.	
ction: 4. FIRST AID MEA	SURES		

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 immediately.
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 immediately.
If swallowed :	Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.
If inhaled :	Remove to fresh air. Treat symptomatically. 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	:	Exposure to decomposition products may be a hazard to health.
Hazardous combustion products	:	Decomposition products may include the following materials: Carbon oxides nitrogen oxides (NOx)

Sulphur oxides Oxides of phosphorus

5.3 Advice for firefighters

Special protective equipment for firefighters	: Use personal protective equipment.
Further information	: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. 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 adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. 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.
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6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Sweep up and shovel into suitable containers for disposal.

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	: Do not ingest. Do not get in eyes, on skin, or on clothing. Do not breathe dust/fume/gas/mist/vapours/spray. Use only with adequate ventilation. Wash hands thoroughly after handling. Mixing this product with acid or ammonia releases chlorine gas.
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. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

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

Specific use(s) : Surface disinfectant. Manual process

Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

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Occupational Exposure Limits

Components	CAS-No.		e type (Form posure)	Control parameters	Basis
precipitated silica	112926-00		Inhalable	6 mg/m3 (Silica)	UKCOSSTD
Further information	fra in	ctions of a	irborne dust white white with the method	its, respirable dust and inhalab ich will be collected when samp ods described in MDHS14/3 Ge alysis of respirable and inhalab	ling is undertaken eneral methods for
	44 Th ar m du ex	e COSHH y kind whe J.m-3 8-ho st. This mo posed abo	definition of a s en present at a c our TWA of inhal eans that any du ove these levels.	ubstance hazardous to health i oncentration in air equal to or g able dust or 4 mg.m-3 8-hour T ist will be subject to COSHH if Some dusts have been assign comply with the appropriate lim	ncludes dust of greater than 10 WA of respirable beople are ed specific WELs
	be hu na se	haviour, d man respi ture and s tting purpo	eposition and fa ratory system ar ize of the particlo oses termed 'inha	particles of a wide range of siz te of any particular particle afte ad the body response that it elic e. HSE distinguishes two size f alable' and 'respirable'.	r entry into the its, depend on the ractions for limit-
	nc th pe	se and mo respirato netrates to	outh during breat ry tract. Respira the gas exchar	to the fraction of airborne mate thing and is therefore available ble dust approximates to the fra nge region of the lung. Fuller de en in MDHS14/3.	for deposition in action that
	47 W	nere dusts		nents that have their own assign	ned WEL, all the
	2 W	nere no sp ig-term ex	ecific short-term posure should b	exposure limit is listed, a figure	
		TWA dust)	(Respirable	2.4 mg/m3 (Silica)	UKCOSSTD
Further information	fra in	ctions of a	irborne dust white white with the method	hits, respirable dust and inhalat ich will be collected when samp ods described in MDHS14/3 Ge alysis of respirable and inhalab	ling is undertaken eneral methods for
	ar m du e>	y kind whe J.m-3 8-ho st. This me bosed abo	en present at a cour TWA of inhal eans that any duove these levels.	ubstance hazardous to health i oncentration in air equal to or g able dust or 4 mg.m-3 8-hour T ist will be subject to COSHH if Some dusts have been assign comply with the appropriate lim	reater than 10 WA of respirable people are ed specific WELs
	45 M be hu na se	est industri haviour, d man respi ture and s tting purpo	al dusts contain eposition and fa ratory system ar ize of the particl oses termed 'inha	particles of a wide range of siz te of any particular particle afte nd the body response that it elic e. HSE distinguishes two size f alable' and 'respirable'. to the fraction of airborne mate	es. The r entry into the its, depend on the ractions for limit-

	nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/3.
47	Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with.
2	Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used

DNEL

	1	
Sodium Carbonate		End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term local effects Value: 10 mg/m3
		End Use: Consumers Exposure routes: Inhalation Potential health effects: Acute local effects Value: 10 mg/m3
sodium metasilicate	:	End Use: Workers Exposure routes: Dermal Potential health effects: Long-term systemic effects Value: 1.49 mg/kg
		End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 6.22 mg/m3

PNEC

sodium metasilicate	:	Fresh water
		Value: 7.5 mg/l
		Marine water
		Value: 1 mg/l
		5
		Intermittent use/release
		Value: 7.5 mg/l
		Sewage treatment plant
		Value: 1000 mg/l
		· · · · · · · · · · · · · · · · · · ·

8.2 Exposure controls

Appropriate engineering controls

Engineering measures	:	Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.
Individual protection measur	res	
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. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

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Eye/face protection (EN 166)	: Safety goggles Face-shield
Hand protection (EN 374)	 Recommended preventive skin protection Gloves Nitrile rubber butyl-rubber Breakthrough time: 1 – 4 hours Minimum thickness for butyl-rubber 0.7 mm for nitrile rubber 0.4 mm or equivalent (please refer to the gloves manufacturer/distributor for advise). Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
Skin and body protection (EN 14605)	: Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing
Respiratory protection (EN 143, 14387)	: When respiratory risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization, consider the use of certified respiratory protection equipment meeting EU requirements (89/656/EEC, 89/686/EEC), or equivalent, with filter type:P
Environmental exposure con	trols
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	: powder
Colour	: white
Odour	: Chlorine
рН	: 10.1 - 10.5, 1 %
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 - 1.15
Water solubility	: soluble
Solubility in other solvents	: Not applicable and/or not determined for the mixture

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

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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	: Yes

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

Mixing this product with acid or ammonia releases chlorine gas.

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 (NOx) Sulphur oxides Oxides of phosphorus

Section: 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

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

Product

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

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

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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	: Sodium Carbonate LD50 rat: 2,800 mg/kg
	sodium metasilicate LD50 rat: 500 mg/kg
	sodium dodecylbenzene sulfonate LD50 rat: 1,086 mg/kg
	Alcohols, C13-15, branched and linear, ethoxylated LD50 rat: 1,250 mg/kg
	precipitated silica LD50 rat: > 20,000 mg/kg
Components	
Acute dermal toxicity	: Alcohols, C13-15, branched and linear, ethoxylated LD50 rat: > 2,000 mg/kg
	precipitated silica LD50 rabbit: > 5,000 mg/kg
Potential Health Effects	
Eyes	: Causes serious eye damage.
Skin	: Causes severe skin burns.
Ingestion	: Causes digestive tract burns.
Inhalation	: May cause nose, throat, and lung irritation.

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Chronic Exposure	: Health injuries are not known or expected under normal use.
Experience with human	exposure
Eye contact	: Redness, Pain, Corrosion
Skin contact	: Redness, Pain, Corrosion
Ingestion	: Corrosion, Abdominal pain
Inhalation	: Respiratory irritation, Cough

Section: 12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity

Environmental Effects	: Toxic to aquatic life with long lasting 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	: Sodium Carbonate 96 h LC50 Lepomis macrochirus (Bluegill sunfish): 300 m	ו/ng
	sodium metasilicate 96 h LC50 Fish: 210 mg/l	
	sodium dodecylbenzene sulfonate 96 h LC50: 3.2 mg/l	
Components		
Toxicity to daphnia and other aquatic invertebrates	: Sodium Carbonate 48 h EC50 Ceriodaphnia (water flea): 213.5 mg/l	
	Alcohols, C13-15, branched and linear, ethoxylated 48 h EC50 Daphnia magna (Water flea): 0.317 mg/l	

12.2 Persistence and degradability

Product	
no data available	
Components	
Biodegradability	: Sodium Carbonate Result: Not applicable - inorganic
	Sodium dichloroisocyanurate dihydrate Result: Readily biodegradable.
	sodium metasilicate

Result: Not applicable - inorganic

sodium dodecylbenzene sulfonate Result: Readily biodegradable.

Alcohols, C13-15, branched and linear, ethoxylated Result: Readily biodegradable.

precipitated silica Result: Not applicable - inorganic

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	: The product should not be allowed to enter drains, water courses or the soil. 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.
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	: Inorganic 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 14.2 UN proper shipping name 14.3 Transport hazard class(es) 14.4 Packing group 14.5 Environmental hazards	 3262 CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (triphosphoric acid, pentasodium salt, sodium metasilicate) 8 III Yes
14.6 Special precautions for user	: None
Air transport (IATA) 14.1 UN number 14.2 UN proper shipping name 14.3 Transport hazard class(es) 14.4 Packing group 14.5 Environmental hazards 14.6 Special precautions for user	 3262 Corrosive solid, basic, inorganic, n.o.s. (triphosphoric acid, pentasodium salt, sodium metasilicate) 8 III Yes None
Sea transport (IMDG/IMO) 14.1 UN number 14.2 UN proper shipping name 14.3 Transport hazard class(es) 14.4 Packing group 14.5 Environmental hazards 14.6 Special precautions for user 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	 3262 CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (triphosphoric acid, pentasodium salt, sodium metasilicate) 8 III Yes None Not applicable.

Section: 15. REGULATORY INFORMATION

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

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

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

Classification	Justification
Skin corrosion 1B, H314	Calculation method
Serious eye damage 1, H318	Calculation method
Chronic aquatic toxicity 2, H411	Calculation method

Full text of H-Statements

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.
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

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; AICS - Australian Inventory of Chemical Substances; 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; TCSI - Taiwan Chemical Substance 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: Surface disinfectant. Manual process

Life Cycle Stage	:	Widespread use by professional workers	
Product category	:	PC35	Washing and cleaning products (including solvent based products)

Contributing scenario controlling environmental exposure for:

Environmental release category	:	ERC8a	Wide dispersive indoor use of processing aids in open systems
Daily amount per site	:	7.5 kg	
Type of Sewage Treatment Plant	:	Municipal s	ewage treatment plant

Contributing scenario controlling worker exposure for:

Process category	:	PROC10	Roller application or brushing
Exposure duration	:	480 min	
Operational conditions and risk management measures	:	Indoor	
		Local Exhaus	st Ventilation is not required
General ventilation		Ventilation ra	ate per hour
Skin Protection	:	No	
Respiratory Protection	:	No	

Contributing scenario controlling worker exposure for:

1

Process category	:	PROC8a	Transfer of substance or preparation (charg discharging) from/ to vessels/ large contained dedicated facilities	•
Exposure duration	:	60 min		
Operational conditions and risk management measures	:	Indoor		
		Local Exha	ust Ventilation is not required	
General ventilation		Ventilation	rate per hour	1
Skin Protection	:	Yes: See S	ection 8	
Respiratory Protection	:	No		