

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

1.1 Product identifier

Product name	:	MARKETGUARD 87
UFI	:	092T-H9RK-TH0J-MJ8N
Product code	:	115512E
Use of the Substance/Mixture	:	Hand Soap
Substance type:	:	Mixture
		For professional users only.
Product dilution information	:	Product is sold ready to use.
1.2 Relevant identified uses of t	he	substance or mixture and uses advised against
Identified uses	:	Skin disinfectant
Recommended restrictions on use	:	Cosmetic
1.3 Details of the supplier of the	e sa	fety data sheet
Company	:	Ecolab Limited Forest Park Mullingar Industrial Estate, Mullingar Co. Westmeath Ireland +353 1 276 3500 infoireland@ecolab.com Ecolab Ltd. PO Box 11; Winnington Avenue Northwich, Cheshire, United Kingdom CW8 4DX
		+353 (0)1 276 3500 ccs@ecolab.com
1.4 Emergency telephone numb	er	
Emergency telephone number	:	+353766805288 +32-(0)3-575-5555 Trans-European
Poison Information Centre	:	Poisons Information: For information or to report a poisoning

Poison Information Centre	:	Poisons Information: For information or to report a poisoning
telephone number		incident contact The National Poisons Information Centre (01
		8092166)

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Section: 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Eye irritation, Category 2	H319
Chronic aquatic toxicity, Category 3	H412

The classification of this product is based on toxicological assessment.

2.2 Label elements

Labelling (REGULATION Hazard pictograms	(EC) :	No 1272/2008)
Signal Word	:	Warning
Hazard Statements	:	H319 H412

Causes serious eye irritation. Harmful to aquatic life with long lasting effects.

2.3 Other hazards

None known.

Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous components

Chemical Name	CAS-No.	Classification	Concentration
Chemical Name	EC-No.		: [%]
	REACH No.	REGULATION (EC) No 1272/2008	. [/0]
Dide and Dire ethed		A suite terrisite Oste serve te LI200	05.4
Didecyl Dimethyl	7173-51-5	Acute toxicity Category 4; H302	>= 0.5 - < 1
Ammonium Chloride	230-525-2	Skin corrosion Sub-category 1B; H314	
	01-2119945987-15	Serious eye damage Category 1; H318	
		Acute aquatic toxicity Category 1; H400	
		Chronic aquatic toxicity Category 2; H411	
		M = 10	
Chlorhexidine gluconate	18472-51-0	Serious eye damage Category 1; H318	>= 0.5 - < 1
	242-354-0	Acute aquatic toxicity Category 1; H400	
	01-2119946568-22	Chronic aquatic toxicity Category 1; H410	
		M = 10	
		M(Chronic) = 1	
1-Propanaminium, 3,3',3"-	83682-78-4	Acute aquatic toxicity Category 1; H400	>= 0.5 - < 1
[phosphinylidynetris	280-518-3		
(oxy)]tris[N-(3-	01-2120763938-35		
aminopropyl) -2-hydroxy-			
N,N-dimethyl-, N,N',N"-tri-			
C6-18-acyl derivs			
Amines, C12-14	308062-28-4	Acute toxicity Category 4; H302	>= 0.5 - < 1
alkyldimethyl, N-oxides	01-2119490061-47	Skin irritation Category 2; H315	
, , , , , , , , , , , , , , , , , , ,		Serious eye damage Category 1; H318	
		Acute aquatic toxicity Category 1; H400	
		Chronic aquatic toxicity Category 2; H411	

Substances with a workp	lace exposure limit :	M = 1		
Propylene glycol	57-55-6 200-338-0 01-2119456809-23	Not Classified;	>= 0.25 - < 0.5	
Isopropyl Alcohol	67-63-0 200-661-7 01-2119457558-25	Flammable liquids Category 2; H225 Eye irritation Category 2; H319 Specific target organ toxicity - single exposure Category 3; H336	>= 0.25 - < 0.5	
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	:	Use personal protective equipment.
for firefighters		

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.
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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.
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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 get in eyes.
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Hygiene measures : No specific measures identified.

7.2 Conditions for safe storage, including any incompatibilities

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

Storage temperature	: 0 °C to 40 °C
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7.3 Specific end uses

Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.		Value type (Form of exposure)	Control parameters	Basis
Propylene glycol	57-55-6		OELV - 8 hrs (TWA) (particles)	10 mg/m3	IR_OEL
			OELV - 8 hrs (TWA) (total (vapour and particles))	150 ppm 470 mg/m3	IR_OEL
Isopropyl Alcohol	67-63-0		OELV - 8 hrs (TWA)	200 ppm	IR_OEL
Further information	Sk	Sk Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body		when they come	
			OELV - 15 min (STEL)	400 ppm	IR_OEL
Further information	Sk		ances which have the o tact with it, and be abs	capacity to penetrate intact skin orbed into the body	when they come

DNEL

DNEL	
Propylene glycol	 End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 168 mg/m3
	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: 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 213 mg/kg
	End Use: Consumers Exposure routes: Ingestion Potential health effects: Long-term systemic effects Value: 85 ppm
Isopropyl Alcohol	: End Use: Workers Exposure routes: Dermal Potential health effects: Long-term systemic effects 888 mg/kg
	End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 500 mg/m3

End Use: Consumers Exposure routes: Dermal Potential health effects: Long-term systemic effects 319 mg/kg
End Use: Consumers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 89 mg/m3
End Use: Consumers Exposure routes: Ingestion Potential health effects: Long-term systemic effects 26 mg/kg

PNEC

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
Isopropyl Alcohol	: Fresh water
	Value: 140.9 mg/l
	Marine water Value: 140.9 mg/l
	Intermittent use/release Value: 140.9 mg/l
	Fresh water Value: 552 mg/kg
	Marine sediment Value: 552 mg/kg
	Soil Value: 28 mg/kg
	Sewage treatment plant

Value: 2251 mg/l	
Oral Value: 160 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 measu	res	i	
Hygiene measures	:	No specific measures identified.	
Eye/face protection (EN 166)	:	No special protective equipment required.	
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

Physical state	:	liquid
Colour	:	clear, colourless
Odour	:	slight
рН	:	5.5 - 7.5, 100 %
Particle characteristics		
Assessment	:	not applicable
Particle size	:	not applicable
Particle Size Distribution	:	not applicable
Dustiness	:	not applicable
Specific surface area	:	not applicable
Surface charge/Zeta potential	:	not applicable

Shape	: not applicable
Crystallinity	: not applicable
Surface treatment /Coatings	: not applicable
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
Boiling point, initial boiling point and boiling range	: > 100 °C
Evaporation rate	: Not applicable and/or not determined for the mixture
Flammability	: 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
Density and / or relative density	: 0.99 - 1.01
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 (log value)	: 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

Depending on combustion properties, decomposition products may include following materials: Carbon oxides

Section: 11. TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure	:	Inhalation, Eye contact, Skin contact
Product		
Acute oral toxicity	:	There is no data available for this product.
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	:	Irritating to eyes.
		Causes serious eye irritation. The classification of this product is based on toxicological assessment.
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	:	Chlorhexidine gluconate LD50 rat: 2,135 mg/kg
		Amines, C12-14 alkyldimethyl, N-oxides LD50 rat: 1,064 mg/kg
		Propylene glycol LD50 rat: 22,000 mg/kg

	Isopropyl Alcohol LD50 rat: 5,840 mg/kg
Components	
Acute inhalation toxicity	: Chlorhexidine gluconate 4 h LC50 rat: 0.365 mg/l Test atmosphere: dust/mist
	Propylene glycol 4 h LC50 rabbit: 158.5 mg/l Test atmosphere: dust/mist
	Isopropyl Alcohol 4 h LC50 rat: > 30 mg/l Test atmosphere: vapour
Components	
Acute dermal toxicity	: Didecyl Dimethyl Ammonium Chloride LD50 rabbit: 2,930 mg/kg
	Chlorhexidine gluconate LD50 rabbit: > 2,000 mg/kg
	Isopropyl Alcohol LD50 rabbit: 12,870 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.
11.2 Information on other hazard	s
Further information	: no data available
Section: 12. ECOLOGICAL INFO	RMATION
12.1 Toxicity	
Environmental Effects	: Harmful 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	:	Didecyl Dimethyl Ammonium Chloride 96 h LC50 Fish: > 1 mg/l
		Amines, C12-14 alkyldimethyl, N-oxides 96 h LC50: 2.67 mg/l
		Propylene glycol 96 h LC50 Fish: > 10,000 mg/l
		Isopropyl Alcohol 96 h LC50 Pimephales promelas (fathead minnow): 9,640 mg/l
Components		
Toxicity to daphnia and other aquatic invertebrates	:	Didecyl Dimethyl Ammonium Chloride 48 h EC50 Daphnia magna (Water flea): 0.029 mg/l
		Chlorhexidine gluconate 48 h EC50: 0.06 mg/l
		Amines, C12-14 alkyldimethyl, N-oxides 48 h EC50 Daphnia magna (Water flea): 3.1 mg/l
		Propylene glycol 48 h EC50 Aquatic Invertebrate: 18,340 mg/l
		Isopropyl Alcohol LC50 Daphnia magna (Water flea): > 10,000 mg/l
Components		
Toxicity to algae	:	Didecyl Dimethyl Ammonium Chloride 72 h EC50 Pseudokirchneriella subcapitata (algae): 0.062 mg/l
		Amines, C12-14 alkyldimethyl, N-oxides 72 h LC50: 0.143 mg/l 72 h NOEC: 0.067 mg/l
12.2 Persistence and degradabil	ity	
Product	-	
Biodegradability	:	The surfactants contained in the product are biodegradable according to the requirements of the detergent regulation 648/2004/EC
Components		
Biodegradability	:	Didecyl Dimethyl Ammonium Chloride Result: Biodegradable
		Chlorhexidine gluconate Result: Readily biodegradable.
		1-Propanaminium, 3,3',3"-[phosphinylidynetris (oxy)]tris[N-(3- aminopropyl) -2-hydroxy-N,N-dimethyl-, N,N',N"-tri-C6-18-acyl derivs

Result: Biodegradable

derivs

Amines, C12-14 alkyldimethyl, N-oxides Result: Readily biodegradable.

Propylene glycol Result: Readily biodegradable.

Isopropyl Alcohol 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 Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher

12.7 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	Do not contaminate storm water drains, natural waterways or soil with chemical or used container. 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 or ID	: Not dangerous goods
number	
14.2 UN proper shipping	: Not dangerous goods
name	
14.3 Transport hazard	: Not dangerous goods
class(es)	
14.4 Packing group	: Not dangerous goods
14.5 Environmental hazards	: Not dangerous goods
14.6 Special precautions for	: Not dangerous goods
user	

Air transport (IATA)

14.1 UN number or ID number	: Not dangerous goods
14.2 UN proper shipping	: Not dangerous goods
name	. Not dougours as a de
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	: Not dangerous goods
user	

Sea transport (IMDG/IMO)

14.1 UN number or ID number	: Not dangerous goods
14.2 UN proper shipping	: Not dangerous goods
name 14.3 Transport hazard	: Not dangerous goods
class(es) 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 Maritime transport in bulk according to IMO instruments	: Not dangerous goods

Section: 15. REGULATORY INFORMATION

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

according to Detergents : less than 5 %: Anionic surfactants, Non-ionic surfactants

Regulation EC 648/2004	Contains: Disinfectants
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 th	e protection of young people at work.

Other regulations	:	Safety, Health and Welfare at Work Act, 2005
-		European Communities (Classification, Packaging, Labelling and
		Notification of Dangerous Preparations) Regulations 1995. (S.I.
		272 of 1995) as amended

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	Based on product data or assessment
Chronic aquatic toxicity 3, H412	Calculation method

Full text of H-Statements

H225 H302	Highly flammable liquid and vapour. 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.
H336	May cause drowsiness or dizziness.
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

Further information

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.