

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

1.1 Product identifier

Product name	:	Helios Brillant
Product code	:	103628E
Use of the Substance/Mixture	:	Metal Cleaner
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	:	Stainless steel care. 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
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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)

Eye irritation, Category 2

H319

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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

Helios Brillant		
Hazard pictograms		
Signal Word	: Warning	
Hazard Statements	: H319	Causes serious eye irritation.
Precautionary Statements	: Prevention: P280e	Wear eye protection/face protection.

2.3 Other hazards

Do not mix with bleach or other chlorinated products – will cause chlorine gas.

Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous components

Chemical Name	CAS-No.	ClassificationREGULATION (EC) No	Concentration:	
	EC-No.	1272/2008	[%]	
	REACH No.			
alcohols, c12-14,	68439-50-9	Acute aquatic toxicity Category 1; H400	>= 3 - < 5	
ethoxylated	500-213-3	Serious eye damage/eye irritation		
	01-2119487984-16	Category 1; H318		
		Skin corrosion/irritation Category 2;		
		H315		
citric acid, monohydrate	5949-29-1	Eye irritation Category 2; H319	>= 1 - < 2.5	
	201-069-1			
	01-2119457026-42			
Substances with a workp	blace exposure limit :			
aluminium oxide	1344-28-1	Not Classified;	>= 30 - < 50	
	215-691-6			
ethanol	64-17-5	Flammable liquids Category 2; H225	>= 2.5 - < 5	
	200-578-6			
	01-2119457610-43			
For the full text of the H-Statements mentioned in this Section, see Section 16.				
ection: 4. FIRST AID MEASURES				
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Section: 4. FIRST AID MEASURES

4.1 Description of first aid measures

r, also under the eyelids, for enses, if present and easy ttention.
symptoms occur.
cur.

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
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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	 Fire Hazard Keep away from heat and sources of ignition. Flash back possible over considerable distance. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
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	:	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	:	Remove all sources of ignition. 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	:	Eliminate all ignition sources if safe to do so. 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.
		material to ensure runoil 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. Keep away from fire, sparks and heated surfaces. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Wash hands thoroughly after handling. Do not mix with bleach or other chlorinated products – will cause 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.
7.2 Conditions for safe storage,	inc	luding any incompatibilities
Requirements for storage areas and containers	:	Keep away from heat and sources of ignition. Keep away from oxidizing agents. 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) : Stainless steel care. Manual 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
aluminium oxide	1344-28-1		TWA (Respirable dust)	4 mg/m3	UKCOSSTD
Further information	15	fractio in acc	ns of airborne dust whi ordance with the metho	its, respirable dust and inhalabl ch will be collected when sampl ods described in MDHS14/3 Ger alysis of respirable and inhalable	ing is undertaken neral methods for
	44	The C	OSHH definition of a s	ubstance hazardous to health in	cludes dust of

		mg.m- dust. T expose	3 8-hour TWA of inhal This means that any du ed above these levels.	concentration in air equal to able dust or 4 mg.m-3 8-ho ust will be subject to COSH Some dusts have been as comply with the appropriate	our TW H if pe signed	/A of respirable eople are d specific WELs
	45	Most ii behavi humar nature	ndustrial dusts contain iour, deposition and fa n respiratory system ar and size of the particl	particles of a wide range o te of any particular particle nd the body response that in e. HSE distinguishes two si alable' and 'respirable'.	f sizes after e t elicits	s. The entry into the s, depend on the
	46	nose a the res penetr	and mouth during breaspiratory tract. Respiratory	to the fraction of airborne r thing and is therefore available dust approximates to the nge region of the lung. Fulle an in MDHS14/3.	able fo ie frac	or deposition in tion that
	47	releva	nt limits should be con			
	2		erm exposure should b	e exposure limit is listed, a f e used	igure	three times the
			TWA (Inhalable dust)	10 mg/m3		UKCOSSTD
Further information	15	fraction	ns of airborne dust wh ordance with the meth	hits, respirable dust and inh ich will be collected when s ods described in MDHS14/3 alysis of respirable and inha	ampli 3 Gen	ng is undertaken eral methods for
	44	any kir mg.m- dust. T expose	nd when present at a c 3 8-hour TWA of inhal This means that any du ed above these levels.	ubstance hazardous to hea concentration in air equal to able dust or 4 mg.m-3 8-ho ust will be subject to COSH Some dusts have been as comply with the appropriate	or gre our TW H if pe signed	eater than 10 /A of respirable eople are d specific WELs
	45	Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'.				
	46	nose a the res penetr	and mouth during brea piratory tract. Respira	to the fraction of airborne r thing and is therefore availa ble dust approximates to th nge region of the lung. Fulle an in MDHS14/3.	able fo le frac	or deposition in tion that
	47	Where dusts contain components that have their own assigned W relevant limits should be complied with.			ed WEL, all the	
	2	Where		n exposure limit is listed, a f	igure	three times the
ethanol	64-17-5		TWA	1,000 ppm 1,920 mg/m3		UKCOSSTD
Further information	2		no specific short-term frm exposure should b	n exposure limit is listed, a f e used	igure	three times the

8.2 Exposure controls

Appropriate engineering controls

Engineering measures	:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Individual protection mea	sures	
Hygiene measures	:	Handle in accordance with good industrial hygiene and safety

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.

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

Helios Brillant

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, 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.
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Environmental exposure controls

General advice	: Consider the provision of containment around storage vessels.
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Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	:	liquid
Colour	:	white
Odour	:	Perfumes, fragrances
рН	:	2.9 - 3.7, 100 %
Flash point	:	57 °C closed cup, Does not sustain combustion.
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	:	1.28 - 1.33
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	:	2072.690 mm2/s (40 °C)

Helios	Brillant
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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

Do not mix with bleach or other chlorinated products - will cause chlorine gas.

10.4 Conditions to avoid

Heat, flames and sparks.

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 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	:	Mild eye irritation

iritationRespiratory 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.Gern cell mutagenicity: There is no data available for this product.Gern cell mutagenicity: 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.Acute oral toxicity: Citric acid, monohydrate LD50 rat: 11,700 mg/kgAcute oral toxicity: ethanol LD50 rat: 10,470 mg/kgAcute dermal toxicity: ethanol LD50 rat: 10,470 mg/kgAcute dermal toxicity: alcohols, c12-14, ethoxylated LD50 rat: > 2,000 mg/kgcomponents: alcohols, c12-14, ethoxylated LD50 rati: > 2,000 mg/kgAcute dermal toxicity: alcohols, c12-14, ethoxylated LD50 rati: > 2,000 mg/kgcitric acid, monohydrate LD50 rati: > 15,800 mg/kgcitric acid, monohydrate LD50 rati: > 15,800 mg/kgcitric acid, monohydrate LD50 rati: > 2,000 mg/kgcitric acid, monohydrate LD50 rati: > 2,000 mg/kgcitric acid, monohydrate LD50 rati: > 2,000 mg/kgcitric acid, monohydrate LD50 rati: > 15,800 mg/kgferent <tr< th=""><th></th><th></th></tr<>		
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LD50 rat: > 10,000 mg/kgethanol LD50 rat: 10,470 mg/kgComponentsAcute inhalation toxicity: ethanol 4 h LC50 rat: 117 mg/l Test atmosphere: vapourComponentsAcute dermal toxicity: alcohols, c12-14, ethoxylated LD50 rabbit: > 2,000 mg/kgAcute dermal toxicity: alcohols, c12-14, ethoxylated LD50 rabbit: > 2,000 mg/kgethanol LD50 rabbit: > 2,000 mg/kgethanol LD50 rabbit: > 15,800 mg/kgFotential Health EffectsEyes: 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.	Acute oral toxicity	
LD50 rat: 10,470 mg/kg Components Acute inhalation toxicity : ethanol 4 h LC50 rat: 117 mg/l Test atmosphere: vapour Components Acute dermal toxicity : alcohols, c12-14, ethoxylated LD50 rabbit: > 2,000 mg/kg citric acid, monohydrate LD50 rat: > 2,000 mg/kg ethanol LD50 rabbit: > 15,800 mg/kg Fotential 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.		
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Ingestion: Health injuries are not known or expected under normal use.Inhalation: Health injuries are not known or expected under normal use.	Eyes	: Causes serious eye irritation.
Inhalation : Health injuries are not known or expected under normal use.	Skin	: Health injuries are not known or expected under normal use.
	Ingestion	: Health injuries are not known or expected under normal use.
Chronic Exposure : 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 Ecotoxicity

Environmental Effects	is product has r	no known ecotoxicological effects.
Product		
Toxicity to fish	data available	
Toxicity to daphnia and other aquatic invertebrates	data available	
Toxicity to algae	data available	
Components		
Toxicity to fish	ic acid, monohy h LC50 Fish: >	
	anol	

96 h LC50 Pimephales promelas (fathead minnow): > 100 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	: alcohols, c12-14, ethoxylated Result: Readily biodegradable.
	citric acid, monohydrate Result: Readily biodegradable.
	aluminium oxide Result: Not applicable - inorganic
	ethanol Result: Readily biodegradable.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.
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 14.2 UN proper shipping	: Not dangerous goods : Not dangerous goods
name	
14.3 Transport hazard class(es)	: Not dangerous goods
14.4 Packing group 14.5 Environmental hazards	Not dangerous goodsNot dangerous goods
14.6 Special precautions for	: Not dangerous goods
user	

Air transport (IATA)

14.1 UN 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	: Not dangerous goods
user	

Sea transport (IMDG/IMO)

14.1 UN 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	: Not dangerous goods
user	
14.7 Transport in bulk	: Not dangerous goods
according to Annex II of	
MARPOL 73/78 and the IBC	
Code	

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 Other constituents: Perfumes Allergens: d-Limonene
		Amyl cinnamal

National Regulations

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

Other regulations	Regulations.	rd Information and Packaging for Supply) nces Hazardous to Health Regulations. Vork 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	
Eye irritation 2, H319	Based on product data or assessment	

Full text of H-Statements

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.

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: Stainless steel care. Manual process Life Cycle Stage : Widespread use by professional workers 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 : Municipal sewage 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 Exhaust Ventilation is not required		
General ventilation		Ventilation	rate per hour	1
Skin Protection	:	No		
Respiratory Protection	:	No		