

according to Regulation (EC) No 1907/2006

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY 1.1 Product identifier Trade name: Boule Enzymatic Cleaner, 100 mL/450 mL/1L 1.2 Uses Relevant identified uses of the Used for cleaning of the Boule hematology systems. substance or mixture: Uses advised against: The product should only be used according the relevant identified uses specified above. If the product is used for any other purposes, it is recommended to contact Boule Medical AB. 1.3 Details of the supplier of the safety data sheet **BOULE MEDICAL AB** Supplier: Address (visiting): Västberga Allé 32, SE-126 30 HÄGERSTEN P.O. Box 42056, SE-126 13 STOCKHOLM, Sweden Address: (mail): Telephone No: +46(0)8 - 7447700 Telefax No: +46(0)8 - 7447720 E-mail: info@boule.se 1.4 Emergency telephone number Emergencies (24 hours): 112 (the European emergency number) Health advice and information +44 (0) 845 4647 (UK only) (24 hours): **SECTION 2: HAZARDS IDENTIFICATION** 2.1 Classification of the substance 2.1.1 CLASSIFICATION ACCORDING TO CLP [REGULATION (EC) NO 1272/2008] See section 16.4 Information on the classification. Classification: 2.1.2 CLASSIFICATION ACCORDING TO DSD (COUNCIL DIRECTIVE 67/548/EEC) Classification: The product is not classified as a dangerous substance under the current legislation for classification and labeling of dangerous chemical substances and mixtures. 2.2 Label elements Trade name: Boule Enzymatic Cleaner, 100 mL/450 mL/1 L Substances in the mixture: Names of the ingredients are not compulsory according to article 10 DPD. Danger symbol and indication of danger: R phrases are not compulsory according to article 10 DPD. R phrases: S phrases: S phrases are not compulsory according to article 10 DPD. 'Safety data sheet available for professional user on request.' Other labelling: 2.3 Other hazards PBT substance: ☐ YES ⊠ NO ■ NOT APPLICABLE vPvB substance: ☐ YES ⊠ NO ■ NOT APPLICABLE Physical hazards: No other known hazards. Health hazards: No other known hazards.

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Environmental hazards: No other known hazards.

2.4 Authorisation (substance)

See section 15.1.2 Authorisations and restrictions according to Reach sections VII and VIII.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Composition/information on ingredients

Substance name	Index No	CAS No	EC No	Registration No)
Subtilisin	647-012-00-8	9014-01-1	232-752-2	-	
	Classification ¹			Conc (w/w)	Other
	Xi; R37/38-41 Xn; R42			< 0.1	OEL
	Classification according to CLP				
	Skin Irrit. 2; H315 Eye Dam. 1; H318 Resp. Sens. 1; H334 STOT SE 3; H335				
Substance name	Index No CAS No EC No Registration No)	
Kathon [reaction mass of: 5-chloro-2-methyl-4-isothiazolin-	613-167-00-5	55965-84-9	-	-	
	Classification ¹			Conc (w/w)	Other
3-one (EC no. 247-500-7)and 2-methyl-2 <i>H</i> -isothiazol-3-one	T; R23/24/25 C; R34 Xi; R43 N; R50/53			< 0.0015	-
(EC no. 220-239-6) (3:1)]	Classification according to CLP				
	Acute Tox. 3; H331 Acute Tox. 3; H311 Acute Tox. 3; H301 Skin Corr. 1B; H314 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410				
For a complete explanation of the sy-	mhol letters and risk nhr	ases do to section 1	6 Other informat	tion	

SECTIO	N A. EIDCT	VID MEVCHDES	

4.1 Description of first aid measures

General description of the Bring this safety data sheet, safety instructions leaflet or label with you to product:

the doctor treating you. First-aiders do normally not need protective

equipment.

Inhalation: If the product is inhaled, and symptoms like shortness of breath or other

symptoms of illness occur, fresh air and rest is recommended. If simple first aid does not produce a quick recovery, call the emergency number.

Skin contact: Wash with soap and water. In contact with chemical substances exposed

clothes and shoes should normally be removed. The product does normally not possess any hazard to the exposed person or to first-aiders.

Eye contact: To prevent eye irritation, rinse immediately with a tempered, soft or low

pressure water jet or eye wash for at least 5 minutes. If symptoms persist (intense stinging, pain, light sensitivity, poor vision) continue rinsing and

seek medical assistance.

Ingestion: Drink a couple of glasses of water. If more than a small quantity has been

ingested seek medical advice.

Notes for the doctor: Exposure does generally not possess any hazard to the health.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms:

Eye contact: Tears, red eyes, pain, blurred vision, impaired but reversible vision.

Ingestion: Irritation, nausea, vomiting,

Skin contact: Not exepcted.

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Inhalation: Cough, sore nose and throat.

Delayed effects: Not exepcted.

4.3 Indication of immediate medical attention and special treatment needed

Specific/immediate treatment at

tment at Treat symptomatically.

the workplace:

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: The product is not flammable. Extinguishing media should be chosen

according to fire and surroundings.

Unsuitable extinguishing media: Water jets are not a suitable extinguishing media when extinguishing fire

from chemical products.

5.2 Special hazards arising from the substance or mixture

Specific hazards: Hydrogen chloride and nitrogen/sulfur oxides may evolve in case of fire.

5.3 Advice for fire-fighters

firefighting:

General safety measures: Apply general fire safety precautions. Avoid inhalation of smoke fumes.

Safety measures during Adequate protective equipment should be worn for all fire fighting.

Protective equipment providing total coverage and an oxygen mask is

recommended.



SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

General safety measures: After accidental release of flammable or volatile substances or substances

that generates dust, ventilate the exposed area thoroughly. Use methods

to minimize generation of dust and vapours.

Personal protective equipment: Avoid inhalation of vapours and exposure to eyes and skin. Always wear

gloves when handling chemical substances.

Protection for emergency

responders:

See section 8.2.2 Personal protection.

6.2 Environmental precautions

General safety measures: None.

6.3 Methods and material for containment and cleaning up

Containment techniques: Specific containment is normally not necessary.

Methods for cleaning up: Collect spills. Absorb spill with vermiculite, dry sand, or adsorbent pads.

6.4 Reference to other sections

Sections 8 and 13: Information regarding personal protective equipment, see section 8.2

Exposure controls, and regarding waste disposal, see section 13 Disposal

considerations.

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SECTION 7: HANDLING AND STO	RAGE				
7.1 Precautions for safe handling					
General requirements:	The employer shall identify the hazardous chemical substances, which occur or can be expected to occur in the activity. Information in this safety data sheet may comprise one of several sections in order to provide adequate instructions for safe handling, storage, disposal, etc of the product. Standard industry hygiene applies. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or				
-	smoke. Fhe product is not flammable	or combu	stible		
Measures to prevent aerosol, vapours and dust generation: v	The vapour and dust generation potential can be reduced by using ventilation and closed systems, good housekeeping, prevention of dust from process equipment, preventing accumulation of dust on overhead and on horizontal surfaces.				
Measures to protect the environment:	See section 6.2 Environmental precautions.				
7.2 Conditions for safe storage, in	ncluding any incompatibili	ties			
storage:	Store in a cool (2 - 35 °C), dry place away from away from heat, sparks, open flame, or strong oxidizing agents. The storage place should be kept clean from all spills.				
Specific storage requirements: N	None.				
Packaging compatibilities:	None.				
Specific designs for storage rooms or vessels:	None.				
7.3 Specific end use(s)					
Exposure scenario:	YES, see attached ES.		⊠ NO		
Industry or sector specific guidance:	YES, see below in this se	ection.	⊠ NO		
Reference to guidance:	Source: -	l	ssuing date:	-	
SECTION 8: EXPOSURE CONTRO	DLS/PERSONAL PROTECT	ION			
8.1 Control parameters					
8.1.1 NATIONAL OCCUPATIONAL EXPOS	SURE LIMITS OR COMMUNITY O	CCUPATION	AL EXPOSURE	LIMITS	
	ES, see table below.		NO		
<u> </u>	ES, see table below.	<u></u>			
Substance name	CAS No	Occupati	onal exposi	ıre limits	
	Long-term (8 h) Short-term (15 min			, ,	
		ppm	mg/m ³	ppm	mg/m ³
Subtilisin (UK)	9014-01-1	-	-	0.5	1.5

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8.1.2 DN(M)EL/PNEC

8.1.2.1 DN(M)EL

Substance: Subtilisin

Exposure - health	DN(M)EL	Exposure group		
		Workers	Others ¹	
Acute exposure, skin contact systemic effects	DNEL	No information	No information	
Acute exposure, inhalation, systemic effects	DNEL	No information	No information	
Acute exposure, ingestion, systemic effects	DNEL	Not applicable	No information	
Acute exposure, skin contact, local effects	DNEL	0.2 % (w/w) in mixture	0.2 % (w/w) in mixture	
Acute exposure, inhalation, local effects	DNEL	No information	No information	
Chronic (repeated) exposure, skin contact, systemic effects	DNEL	No information	No information	
Chronic (repeated) exposure, inhalation, systemic effects	DNEL	60 ng/m ³	15 ng/m ³	
Chronic (repeated) exposure, ingestion, systemic effects	DNEL	Not applicable	No information	
Chronic (repeated) exposure, skin contact, local effects	DNEL	0.2 % (w/w) in mixture	0.2 % (w/w) in mixture	
Chronic (repeated) exposure, inhalation, local effects	DNEL	60 ng/m ³	15 ng/m ³	

8.1.2.2 PNEC

Substance: Sodium hypochlorite

Exposure - comparment	PNEC	
Water (freshwater)	0.06 μg/l	
Water (marine water)	0.006 μg/l	
Water (intermittent releases)	0.9 μg/l	
STP (Sewage Treatment Plant)	65000 μg/l	
Sediment (freshwater/marine)	Not relevant	
Soil	568 μg/kg soil dw	
1. NOT CLASSFIED. The substance does not fulfill the criteria for being classified as a hazardous substance according to CLP.		

8.1.3 MONITORING

Controls of air pollution: If more than one substance occur or can be expected to occur in the working

environment, the risk for interacting effects with increasing toxicity shall be assessed. In the assessment of exposure conditions, consideration shall be

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paid, not only to the concentration of air contaminants in the respiratory air, but also to the workload and to the possibility of certain substances being absorbed percutaneously. The person planning and conducting measurement of air contaminants shall have sufficient knowledge for the purpose. Measurements should be taken using a method and equipment suitable for the purpose. Exposure measurements shall refer to conditions during normal operations. If necessary they should also indicate exposure under other conditions. Exposure measurements shall be conducted in the breathing zone and on a sufficient number of persons for the exposure to be judged with reference to all persons exposed.

8.1.4 RISK MANAGEMENT MEASURES

General recommendations:

If a risk assessment has shown that there is a risk for exposure at a workplace, the work shall be arranged, conducted and followed up in such a way that the exposure will be as low as is practically possible. In order to reduce the risk, substitution shall by preference be undertaken. Where it is not reasonably practicable to prevent exposure to a substance hazardous to health, the employer shall take risk reduction measures, in order of priority: (a) The design and use of appropriate work processes, systems and engineering controls and the provision and use of suitable work equipment and materials: (b) The control of exposure at source, including adequate ventilation systems and appropriate organisational measures; (c) Where adequate control of exposure cannot be achieved by other means, the provision of suitable personal protective equipment in addition to the measures required by sub-paragraphs (a) and (b).

Control banding:

Using a control banding approach in order to identify appropriate risk management measures, is only applicable for the relevant identified uses, see section 1 Identification of the substance/mixture and of the company. No specific risk assessment limitations can be given, since different models of control banding are available.

8.2 Exposure controls

8.2.1 APPROPRIATE ENGINEERING CONTROLS

Precautionary measures:

No respiratory protection is ordinarily required under normal conditions of use and when adequate ventilation is ensured. In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material. e.g. dust, see section 8.1.3 Risk management measures.

8.2.2 Personal protection

Requirements for protection equipment:

Personal protective clothing should meet recommended standards. This is checked with the clothing supplier. Ensure that all protective clothing requirements are observed. Regular checks should be performed to ensure that protective clothing is both effective and complete.

Eye/face protection:

With risk of exposure to the eyes, always wear protective glasses [EN 166 (Personal eye-protection - Specifications)].

Skin protection:

Skin protection: Body protection: Always wear gloves when handling the chemical substance [EN 374 (Protective gloves against chemicals and micro-organisms)]. For advice about suitable gloves for the type of work, period and frequency of exposure, contact the glove supplier.

Thickness

Breakthrough time

Suitable glove material (example only), see 8.2.2.

Standard protective clothing.

Nitrile, neoprene, pva

Material

Respiratory protection

With risk of exposure to the respiratory system, use a gas filter (removal of organic substances) and a dust filter P3 [EN 143 (particle filters)], [EN 140 (Half masks and quarter masks), EN 149 (Filtering half masks to protect

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against particles)].

Thermal hazards: None.

8.2.3 Environmental exposure controls

General risk management No specific measures.

measures:

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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9.1 Information on basic physical and chemical properties

Property	Value	Method / Remarks
Physical state:	Liquid	-
Granulometry:	Not applicable	-
Colour as supplied:	Blue	-
Odour:	None	-
Odour threshold:	Not applicable	-
pH:	pH 8.0- 8.4	-
Melting point / freezing point:	0 °C	-
Initial boiling point and boiling range:	100 °C	-
Flash point:	Not applicable	-
Evaporation rate:	Not applicable	-
Flammability (solid, gas):	Non flammable	-
Upper/lower flammability or explosive limits:	Non explosive	-
Vapour pressure:	No information	-
Vapour density:	Not applicable	-
Density:	Ca 1 g/m ³	-
Solubility in water:	Completely soluble	-
Solubility in organic solvents:	Insoluble in organic solvents	-
Partition coefficient: n-octanol/water:	Not applicable	-
Auto-ignition temperature:	Not applicable	-
Decomposition temperature:	Not applicable	-
Viscosity:	Not applicable	-
Explosive properties:	Non explosive	-
Oxidising properties:	No oxidising properties	-
9.2 Other safety information		
Property	Value	Method / Remarks
Solubility in fat:	Insoluble in fat -	
Conductivity:	No information	-
Dissociation constant in water (pKa):	Not applicable	-

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SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Reactivity hazards: The substance is normally not reactive but can react with specific

materials, see 10.5 Incompatible materials.

10.2 Chemical stability

Stability under normal handling

and storage:

Stable substance under normal and intended handling conditions and

storage, e.g. temperature, pressure etc.

Stabilisers:

10.3 Possibility of hazardous reactions

Hazardous reactions: Not expected to cause any hazardous reactions.

See section 10.4 Conditions to avoid. Hazardous conditions:

10.4 Conditions to avoid

Hazardous conditions: None.

Risk management measures: See section 7 Handling and storage.

10.5 Incompatible materials

Specific materials: Strong acids and bases.

Risk management measures: See section 7 Handling and storage.

10.6 Hazardous decomposition products

Known/anticipated hazardous

decomposition products:

See section 10.3 Possibility of hazardous reactions.

SECTION 11: TOXICOLOGICAL INFORMATION



11.1 Information on toxicological effects

11.1.1 MIXTURE - INFORMATION ON RELEVANT HAZARD CLASSES

Acute toxicity:

Ingestion: Based on available data, the classification criteria are not met. Ingestion

may cause irritation, nausea and vomiting.

Skin contact: Based on available data, the classification criteria are not met.

Inhalation: Based on available data, the classification criteria are not met. Inhalation

of vapours may cause irritaion.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/irritation: Based on available data, the classification criteria are not met. Eye

contact may cause red eyes, pain, blurred vision, impaired but reversible

Based on available data, the classification criteria are not met.

vision.

Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.

Based on available data, the classification criteria are not met. Germ cell mutagenicity: Carcinogenicity: Based on available data, the classification criteria are not met.

Specific target organ toxicity -

single exposure:

Based on available data, the classification criteria are not met.

Specific target organ toxicity – Based on available data, the classification criteria are not met.

repeated exposure:

Reproductive toxicity:

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Aspiration hazard: Based on available data, the classification criteria are not met. 11.2 Brief summaries of the information derived from the application of Annexes VII to XI Information is given to each hazard class in section 11.1.1 Substance -Summary: Information on relevant hazard classes. CMR properties cat. 1A and 1B: Based on available data, the classification criteria are not met. **SECTION 12: ECOLOGICAL INFORMATION** \boxtimes 12.1 Toxicity - substance 12.1.1 TOXICITY AFTER SHORT AND LONG TERM EXPOSURE Summary: The mixture is not expected to be dangerous for the aquatic or terrestrial environment from short-term or long-term exposure. 12.1.2 IMPACT ON SEWAGE TREATMENT PLANTS Summary: The mixture is not expected to be dangerous for wastewater treatment plants. 12.2 Persistence and degradability Biotic degradability: The mixture contains substances in very low concentrations that are not ready degradable. Abiotic degradability: No information 12.3 Bioaccumulative potential Log Pow and/or BCF value: The mixture contains substances in very low concentrations that are bioaccumulating. 12.4 Mobility in soil Environmental distribution: All substances in the mixture are expected to be distributed to the water phase and mobile in soil. 12.5 Results of PBT and vPvB assessment PBT substance: ☐ YES ⊠ NO ☐ NOT APPLICABLE ⊠ NO vPvB substance: ☐ YES ☐ NOT APPLICABLE 12.6 Other adverse effects General: No known adverse effects. 12.7 Brief summaries of the information derived from the application of Annexes VII to XI See information in sections 12.1 – 12.4. Summary: **SECTION 13: DISPOSAL CONSIDERATIONS** 13.1 Disposal considerations 13.1.1 CLASSIFICATION OF WASTE \square NO Hazardous waste: ⊠ YES Waste designations according to 20 01 29 Detergents containing dangerous substances. EWC: Packaging: 15 01 02 Plastic packaging. 13.1.2 HANDLING OF WASTE General information: Before handling waste, see section 8 Exposure controls/Personal

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protection. During application the product may have been contaminated with hazardous substances, which properties in the waste may not be the same as the original product's properties. It is therefore always the user's responsibility to classify the waste. Hazardous waste must be transported by an approved transporter. For regular transport of hazardous waste, the

user is responsible for providing a transport document.

Handling of waste product: Handled as hazardous waste.

Handling of packaging: Clean packages can be recycled.

3 . 3 3	, ,		
SECTION 14: TRANSPORT INFO	ORMATION		
14.1 General information			
Dangerous goods:	☐ YES	⊠ NO	
0507101145 05011147001411	FORMATION		
SECTION 15: REGULATORY IN	FORMATION		
15.1 Safety, health and environ	mental regulations/legislation spe	cific for the substance or mixture	
15.1.1 REGULATIONS/LEGISLATION F	REGARDING SAFETY, HEALTH AND ENVIR	ONMENT	
General information:	and accident risks entailed by haze at the worksite and how these risks supplied concerning occupational o occurring and concerning other Pro- concerning the routines existing fo	ployees concerned of the health hazards ardous chemical substances occurring as are avoided. Information shall also be exposure limit values for the substances ovisions applying to the work, as well as a internal chemicals control. The mployees concerned have understood	
Work environment:	The Control of Substances Hazardous to Health Regulations 2002 No. 2677. (UK only)		
	EH40/2005 Workplace exposure li	mits. (UK only)	
Environment:	The Producer Responsibility Obligations (Packaging Waste) Regulations 1997 No. 648. (UK only)		
Safety:	-		
15.1.2 AUTHORISATIONS AND RESTR	RICTIONS ACCORDING TO REACH SECTION	ONS VII AND VIII	
Authorisation (substance):	☐YES	⊠ NO	
Authorisation No:	-		
Restriction (substance/mixture):	☐YES	⊠ NO	
15.1.3 SPECIAL RULES ON PACKAGIN	NG ACCORDING TO CLP [(EC) NO 1272	2/2008]	
Consumer product:	☐ YES	⊠NO	
Child-resistant fastening:	☐ YES	⊠NO	
Tactile warning of danger:	☐ YES	⊠ NO	
15.2 Chemical Safety Assessme	ent (CSR)		
Chemical Safety Assessment:	YES, mixture YES, su	bstance(s)	
SECTION 16: OTHER INFORMA	TION		
16.1 Indication of changes Information to the user:	When the information under particular	ular sections in the safety data sheet is	

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changed in accordance with Reach art 31 (9), it is shown by ticking the respective checkbox to the right of that section. The specific changes are given on request.

The SDS has been written since the product contains a substance with national occupational exposure limits (subtilisin), the information about Kathon is given voluntary.

16.2 Abbreviations and acronyms

@: Used instead of the word "at".

BCF: Bioconcentration Factor. The equilibrium concentration of a chemical in a

living organism, expressed as the ratio Cb/Cw (Cb = concentration in

biota, Cw = concentration in water.

BW: Body weight.

CAS No: Chemical Abstracts Service number.

Cat: Category. Subdivision of a hazard class, used in classification.

CLP: Classification, Labelling and Packaging of chemical substances and

mixtures. Short for: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

CMR properties: Carcinogenic, Mutagenic or toxic for Reproduction

Control banding: Control banding (CB) is a technique used to guide the assessment and

management of workplace risks. It is a generic technique that determines a control measure (for example dilution ventilation, engineering controls, containment, etc.) based on a range or "band" of hazards (such as skin/eye irritant, very toxic, carcinogenic, etc.) and exposures (small, medium, large exposure). It is an approach that is based on two pillars; the fact that there are a limited number of control approaches, and that

many problems have been met and solved before.

CSR: Chemical Safety Report.

DMEL: Derived Minimal Effect Level.

Derived No-Effect Level.

DSD: **D**angerous **S**ubstances **D**irective. Council Directive 67/548/EEC.

EC₅₀: Effect **C**oncentration. Statistically derived median concentration of a

substance in an environmental medium expected to produce a certain effect in 50 % of test organisms in a given population under a defined set

of conditions.

EC No: The EC number, i.e. EINECS, ELINCS or NLP, is the official number of

the substance within the European Union.

Einecs: European Inventory of Existing Commercial Chemical Substances.

Elincs: The European List of Notified Chemical Substances.

EN 140: Respiratory protective devices - Half masks and quarter masks -

Requirements, testing, marking.

EN 143: Respiratory protective devices - Particle filters - Requirements, testing,

marking.

EN 149: Respiratory protective devices - Filtering half masks to protect against

particles - Requirements, testing, marking.

EN 166: Personal eye-protection – Specifications.

EN 374: Protective gloves against chemicals and micro-organisms - Part 3:

Determination of resistance to permeation by chemicals.

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EN 388: Protective gloves against mechanical risks.

ES: Exposure scenario.

EWC: The European Waste Catalogue. The EWC is a hierarchical list of waste

descriptions established by Commission Decision 2000/532/EC.

Index No: The Index number is the identification code given to the substance in Part

3 of Annex VI to Regulation (EC) No 1272/2008.

LOAEL: Lowest Observable Adverse Effect Level. The lowest dose tested which

gives a specific adverse effect.

LC₅₀: Lethal **C**oncentration. In ecotoxicology, the LC₅₀ is the concentration

which kills 50 % of a population of one species, within a specified period

of time.

 LD_{50} : Lethal **D**ose. The LD_{50} is the dose of a substance which kills 50 % of a

population of one species and is expressed as weight (mg, g) or as

weight per weight of test animal (mg/kg).

Log Pow: The potential for bioaccumulation - determined by using the octanol/water

partition coefficient - is reported as log "Pow" by the EU, whereas the

GHS criteria refer to log "Kow".

NOAEC: No Observed Adverse Effect Concentration. The highest concentration

tested in an experiment that does not show adverse effects. Expressed

as daily dose weight per weight of animal (mg/m³).

NOAEL: No Observed Adverse Effect Level. The highest dose tested in an

experiment that does not show adverse effects. Expressed as daily dose

weight per weight of animal (mg/kg).

NOEC: No Observed Effect Concentration. The highest concentration tested in

an experiment that does not show any effect on the organism. Expressed

as concentration (mg/l) or (mg/m³).

NOEL: No Observed Effect Level. The highest dose tested in an experiment that

does not show any effect on the animal. Expressed as daily dose per

weight of animal (mg/kg).

NLP: No-Longer Polymers List.

OECD: Organisation for Economic Co-operation and Development. The OECD

Guidelines for the Testing of Chemicals are a collection of internationally

agreed test methods. They cover tests for the physical-chemical properties, human health effects and environmental effects.

PBT substance: Persistent, bioaccumulative and toxic substance.

pH: pH is a measure of the acidity or basicity of an aqueous solution.
pKa: The symbol for the acid dissociation constant at logarithmic scale.

PNEC: Predicted No-Effect Concentration.

ppm: parts per million.

Reach: Registration, Evaluation, Authorisation and Restriction of Chemicals.

REACH is the European Community Regulation on chemicals and their

safe use.

vPvB substance: Very persistent and very bioaccumulative substance.

WEL: Workplace Exposure Limits.

16.3 Key literature references and sources for data

References: REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT

AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals

(REACH), establishing a European Chemicals Agency, amending Directive

1999/45/EC and repealing Council Regulation (EEC) No 793/93 and

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according to Regulation (EC) No 1907/2006

Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

16.4 Information on t	the classification	
16.4.1 CLASSIFICATION	ACCORDING TO CLP [REGULATION (EC) NO 12	72/2008]
Classification:	The product is not classified as a dangerout for classification and labelling of dangerout	
16.4.2 EVALUATION ME	THOD USED FOR CLASSIFICATIONS ACCORDING T	O ARTICLE 9 CLP
Evaluation method:	☑ 9.1 (kap 1 avd II CLP)	9.2 (other methods than art 8.3)
	☑ 9.3 (expert judgement)	9.4 (bridging princples)
	9.5 other methods described	l in part 3 and 4 annex I
16.5 Relevant R- and	l H-phrases	
16.5.1 R PHRASES ACC	cording to DSD (in section 3)	
R23/24/25	Toxic by inhalation, in contact v	vith skin and if swallowed.
R34	Causes burns.	
R37/38	Irritating to respiratory system a	and skin.

R41 Risk of serious damage to eyes. **R42** May cause sensitization by inhalation. R43 May cause sensitization by skin contact.

R50/53 Very toxic to aquatic organisms, may cause long- term adverse effects in

the aquatic environment.

16.5.2 Danger codes according to DSD (in section 3)

Hazard class / Category of danger	Symbol letter	Danger symbol	Indication of danger
Toxic	Т	&	Toxic
Corrosive	С	===	Corrosive
Harmful	Xn	×	Harmful
Irritant	Xi	×	Irritant
Dangerous for the environment	N	*	Dangerous for the environment

16.6 Training advice

General training: The employer shall inform the employees concerned of the health hazards and

> accident risks entailed by hazardous chemical substances occurring at the worksite and how these risks are avoided. Information shall also be supplied concerning occupational exposure limit values for the substances occurring and concerning other Provisions applying to the work, as well as concerning the routines existing for internal chemicals control. The employer shall ascertain that the employees concerned have understood the information.

No specific information is required for this product. Specific training:

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according to Regulation (EC) No 1907/2006

16.7 Exposure scenarios (ES)

ES for the mixture:

ES are not given as an attachment to this safety data sheet. Relevant information for the mixture is given under each specific section.

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