

Safety Data Sheet

Conforms to Regulation (EC) No. 1907/2006 (REACH), Article 31, Annex II, as amended by Commission Regulation (EU) 2020/878

FUGABELLA ECO PORCELANA 0-5

Date of first edition: 4/8/2021 Safety Data Sheet dated 7/20/2021

version 12

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Mixture identification:

Trade name: FUGABELLA ECO PORCELANA 0-5

Trade code: 001011003-12

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use: Adhesives, sealants; Mineral adhesives for ceramic, porcelain tiles and natural stone

Uses advised against: Not available

1.3. Details of the supplier of the safety data sheet

Company: KERAKOLL S.p.A. Via dell'Artigianato, 9

41049 Sassuolo (MODENA) - ITALY

Tel.+39 0536 816511 Fax. +39 0536816581

safety@kerakoll.com

1.4. Emergency telephone number

European emergency phone number 112

Kerakoll Italy - +39-0536-816511

Ireland

Poison information centre: 01 809 2166 (Daily 8am-10pm)

In case of emergency call 999 or 112

Malta

In case of emergency call: +356 2395 2000 (24h)

SECTION 2: Hazards identification





2.1. Classification of the substance or mixture

Regulation (EC) n. 1272/2008 (CLP)

Skin Irrit. 2 Causes skin irritation.

Eye Dam. 1 Causes serious eye damage.

Skin Sens. 1B May cause an allergic skin reaction. STOT SE 3 May cause respiratory irritation.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Regulation (EC) No 1272/2008 (CLP):

Pictograms and Signal Words



Hazard statements

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.H335 May cause respiratory irritation.

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Precautionary statements

P102 Keep out of reach of children.

P260 Do not breathe dust.

P280 Wear protective gloves and eye protection. P302+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P33 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

8 to do. Continue rinsing.

P501 Dispose of contents/container in accordance with applicable regulations.

Contains

Portland Cement (Cr VI < 0,0002%)

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

When mixtures containing cement react with water, for instance when making concrete or mortar, or when the cement becomes wet, a strong alkaline solution is produced (high pH caused by the formation of calcium, sodium and potassium hydroxides).

Cement and mixtures containing cement may irritate the eyes, the mucous system, the throat and the respiratory system and cause coughing. Frequent inhalation of cement dust or mixtures containing cement over a long period of time increases the risk of developing lung diseases.

No PBT, vPvB or endocrine disruptor substances present in concentration \geq 0.1%.

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Mixture identification: FUGABELLA ECO PORCELANA 0-5

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Numb.	Classification	Registration Number
25-50 %	Portland Cement (Cr VI < 0,0002%)	CAS:65997-15-1 EC:266-043-4	Skin Irrit. 2, H315; Eye Dam. 1, H318; Skin Sens. 1B, H317; STOT SE 3, H335	

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

Remove contaminated clothing immediatley and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and label hazardous.

In case of Inhalation:

In case of inhalation, consult a doctor immediately and show him packing or label.

4.2. Most important symptoms and effects, both acute and delayed

Eye irritation

Eye damages

Skin Irritation

Erythema

4.3. Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

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Water.

Carbon dioxide (CO2).

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

Use appropriate respiratory protection.

See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhaltion of vapours and mists.

Use localized ventilation system.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contamined clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

The product must be stored in waterproof, dry, clean conditions and protected from contamination. Do not use aluminum containers due to incompatibility of the materials.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

Recommendation(s)

None in particular

Industrial sector specific solutions:

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Community Occupational Exposure Limits (OEL)

Component	OEL Type	Country	Ceiling	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Notes				
Portland Cement (Cr VI < 0,0002%)	NATIONAL	AUSTRALIA		10.000				This value is for inhal containing no asbesto 1% crystalline silica.				
	NATIONAL	AUSTRIA		5.000				Inhalable aerosol				
	NATIONAL	BELGIUM		10.000				Respirable fraction				
Date 7/20/2021	Product	tion Name	FUGAB	ELLA ECO F	PORCELANA	A 0-5			Page n.	3	of	12

NATIONAL	CANADA	1.000	Canada Ontario. The value is for particulate matter containing no asbestos an <1 % crystalline silica. Respirable fraction
NATIONAL	CANADA	10.000	Canada Québec. Total
NATIONAL	CANADA	5.000	Canada Québec. Respirable
NATIONAL	KOREA, REPUBLIC OF	10.000	
NATIONAL	CROATIA	10.000	
NATIONAL	FINLAND	5.000	Inhalable fraction
NATIONAL	FINLAND	1.000	Respirable fraction
NATIONAL	GERMANY	5.000	DFG
NATIONAL	HUNGARY	10.000	Inhalable
NATIONAL	IRELAND	1.000	Respirable fraction
NATIONAL	ITALY	10.000	Come particelle non altrimenti specificate PNOC
NATIONAL	ITALY	5.000	MAK
NATIONAL	ITALY	1.000	TWA
NATIONAL	JAPAN	1.000	Respirable dust
NATIONAL	JAPAN	4.000	Total dust: Total dust comprises particles with a flow speed of 50 to 80 cm/sec at the entry of a particle sampler.
NATIONAL	LATVIA	6.000	
NATIONAL	NEW ZEALAND	10.000	The value for inhalable dust containing no asbestos and less than 1% free silica.
NATIONAL	NETHERLA NDS	1.000	Respirable dust
NATIONAL	POLAND	2.000	Respirable fraction
NATIONAL	PORTUGAL	10.000	
NATIONAL	PORTUGAL	1.000	
NATIONAL	SINGAPORE	10.000	
NATIONAL	SPAIN	4.000	Respirable fraction
NATIONAL	SWITZERLA ND	5.000	Inhalable aerosol
NATIONAL	UNITED STATES OF AMERICA	15.000	OSHA; Total dust
NATIONAL	UNITED STATES OF AMERICA	10.000	NIOSH; Total dust
NATIONAL	UNITED STATES OF AMERICA	5.000	NIOSH; Respirable fraction
NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	10.000	Inhalable aerosol
NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN	4.000	Respirable aerosol

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IRELAND

	NATIONAL	CHILE	8.800		
	NATIONAL	INDONESIA	1.000		
	NATIONAL	MALAYSIA	10.000		
	NATIONAL	MEXICO	1.000		
	ACGIH	NNN	1		(E,R), A4 - Pulm func, resp symptoms, asthma
Limestone	NATIONAL	BELGIUM	10.000		
	NATIONAL	HUNGARY	10.000		Inhalable aerosol
	NATIONAL	CHINA	8.000		Inhalable fraction
	NATIONAL	CHINA	4.000		Inhalable aerosol
	NATIONAL	KOREA, REPUBLIC OF	10.000		
	NATIONAL	JAPAN	2.000		Respirable dust
	NATIONAL	JAPAN	8.000		Total dust: Total dust comprises particles with a flow speed of 50 to 80 cm/sec at the entry of a particle sampler
	NATIONAL	SPAIN	10.000		Inhalable aerosol
	NATIONAL	SWITZERLA ND	3.000		Respirable aerosol
	NATIONAL	UNITED STATES OF AMERICA	15.000		OSHA: Total dust
	NATIONAL	UNITED STATES OF AMERICA	5.000		OSHA: Respirable dust
	NATIONAL	UNITED STATES OF AMERICA	10.000		NIOSH: total dust, calcium carbonate
	NATIONAL	UNITED STATES OF AMERICA	5.000		NIOSH: Respirable aerosol, calcium carbonate
	NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	10.000		Inhalable aerosol
	NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	4.000		Respirable aerosol
	NATIONAL	ITALY	10.000		Come particelle non altrimenti specificate PNOC
	NATIONAL	CROATIA	10.000		
	NATIONAL		10.000		
	NATIONAL	NETHERLA NDS	10.000		
	NATIONAL	PORTUGAL	10.000		
Triiron tetraoxide	NATIONAL	POLAND	2.500	5.000	Long term and short term: respirable fraction
	NATIONAL	POLAND	5.000	10.000	Long term and short term: inhalable fraction

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Diiron trioxide	NATIONAL	AUSTRALIA	5.000			
	NATIONAL	AUSTRIA	5.000		10.000	long term and short term: respirable aerosol
	NATIONAL	BELGIUM	5.000	2.000		
	NATIONAL	CANADA	5.000			Ontario; respirable aerosol
	NATIONAL	CANADA	5.000			Québec
	NATIONAL	DENMARK	3.500		7.000	
	NATIONAL	FINLAND	5.000			Calculed as Fe; fume
	NATIONAL	HUNGARY	6.000			Respirable aerosol
	NATIONAL	IRELAND	5.000		10.000	
	NATIONAL	NEW ZEALAND	5.000			
	NATIONAL	POLAND	5.000		10.000	
	NATIONAL	ROMANIA	5.000		10.000	
	NATIONAL	SINGAPORE	5.000			
	NATIONAL	KOREA, REPUBLIC OF	5.000			
	NATIONAL	SPAIN	5.000			
	NATIONAL	SWEDEN	3.500			
	NATIONAL	SWITZERLA ND	3.000			Respirable aerosol
	NATIONAL	UNITED STATES OF AMERICA	5.000			NIOSH; AS Fe, total particulate
	NATIONAL	UNITED STATES OF AMERICA	10.000			OSHA
	NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	5.000		10.000	
	NATIONAL	ITALY	5.000			
	NATIONAL	ARGENTINA	5.000			
	NATIONAL	BULGARIA	5.000			
	NATIONAL	CROATIA	5.000			
	NATIONAL	ESTONIA	3.500			
	NATIONAL	FRANCE	5.000			
	NATIONAL	GERMANY	1.250			
	NATIONAL	GREECE	10.000		10.000	
	NATIONAL	INDONESIA	5.000			
	NATIONAL	ICELAND	3.500			
	NATIONAL	LITHUANIA	3.500			
	NATIONAL	MALAYSIA	5.000	2.000		
	NATIONAL	MEXICO	5.000			Respirable fraction
	NATIONAL	NORWAY	3.000			
	NATIONAL	PORTUGAL	5.000			
	NATIONAL	RUSSIAN FEDERATIO N	6.000			
	NATIONAL	SLOVAKIA	1.500			
	NATIONAL	SLOVENIA	6.000			
	NATIONAL		5.000			Respirable particulate

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NATIONAL	SOUTH AFRICA	10.000				Inhalable particulate
NATIONAL	TAIWAN, PROVINCE OF CHINA	10.000				
NATIONAL	HUNGARY	6.000				
ACGIH	NNN	5				(R), A4 - Pneumoconiosis
NATIONAL	BELGIUM	0.1				Inhalable fraction and vapour
NATIONAL	CANADA	0.100				Ontario: inhalable aerosol and vapour
NATIONAL	DENMARK	0.500	0.200	0.500	0.200	
NATIONAL	FINLAND	0.020				
NATIONAL	SPAIN	0.100				
NATIONAL	ITALY	0.100				
NATIONAL	ARGENTINA	0.100				
NATIONAL	MEXICO	0.100				
NATIONAL	UNITED STATES OF AMERICA	0.100				
NATIONAL	PORTUGAL	0.100				
ACGIH	NNN	0.1				(IFV), DSEN, A4 - URT irr, larynx metaplasia

8.2. Exposure controls

Eye protection:

glyoxal...%; ethandial...%

Eye glasses with side protection.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Nitrile rubber .

Respiratory protection:

Particle filter P3.

Thermal Hazards:

N.A.

Environmental exposure controls:

N.A

Hygienic and Technical measures

N.A.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State Solid

Color: In compliance with the product description

Odour: Odourless
Odour threshold: N.A.
pH: =12.40 (OECD 122)
Kinematic viscosity: N.A.

Melting point / freezing point: N.A.
Initial boiling point and boiling range: N.A.

Flash point: > 93°C

Upper/lower flammability or explosive limits: N.A.

Vapour density: N.A. Vapour pressure: N.A.

Relative density: 1.25 g/cm3 (ISO 2811)

Solubility in water: Slightly soluble

Solubility in oil: N.A.

Partition coefficient (n-octanol/water): N.A.

Auto-ignition temperature: N.A. Decomposition temperature: N.A.

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Flammability: N.A.

Volatile Organic compounds - VOCs = 0 %; 0 g/l

Particle characteristics:

9.2. Other informationMiscibility: N.A.
Conductivity: N.A.

Particle size: N.A.

Evaporation rate: N.A. No other relevant information

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

The product is stable as long as it is properly stored (see Section 7).

Wet product is alkaline and incompatible with acids, with ammonium salts, with aluminium or other base metals. When in contact with hydrofluoric acid, mixtures containing cement dissolve to produce corrosive silicon tetrafluoride gas. Mixtures containing cement react with water to form silicates and calcium hydroxide. Silicates in cement react with powerful oxidizers such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride and oxygen difluoride.

Intact packaging and compliance with the appropriate storage conditions as indicated in Subsection 7.2 (adequate tightly closed and sealed containers, dry and cool place, no ventilation) are the essential conditions.

10.3. Possibility of hazardous reactions

None.

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

Acids, ammonium salts, aluminium or other base metals. Uncontrolled use of aluminium dust in wet cement-containing products is to be avoided because it causes the production of hydrogen.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

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

Toxicological Information of the Preparation

a) acute toxicity Not classified

Based on available data, the classification criteria are not met

b) skin corrosion/irritation The product is classified: Skin Irrit. 2(H315) c) serious eye damage/irritation The product is classified: Eye Dam. 1(H318) d) respiratory or skin sensitisation The product is classified: Skin Sens. 1B(H317)

e) germ cell mutagenicity Not classified

Based on available data, the classification criteria are not met

f) carcinogenicity Not classified

Based on available data, the classification criteria are not met

g) reproductive toxicity Not classified

Based on available data, the classification criteria are not met

h) STOT-single exposure The product is classified: STOT SE 3(H335)

i) STOT-repeated exposure Not classified

Based on available data, the classification criteria are not met

j) aspiration hazard Not classified

Based on available data, the classification criteria are not met

11.2 Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration >= 0.1%

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

List of Eco-Toxicological properties of the product

Not classified for environmental hazards.

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12.2. Persistence and degradability

N.A.

12.3. Bioaccumulative potential

N A

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

No PBT/vPvB Ingredients are present

12.6 Endocrine disrupting properties

No endocrine disruptor substances present in concentration >= 0.1%

12.7 Other adverse effects

N.A.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

A waste code according to European waste catalogue (EWC) cannot be specified, due to dependence on the usage. Contact an authorized waste disposal service.

Properties of waste which render it hazardous (Annex III, Directive 2008/98/EC):

HP 13: Sensitising; HP 5: Specific Target Organ Toxicity (STOT)/Aspiration Toxicity; HP 4: Irritant — skin irritation and eye damage

SECTION 14: Transport information

14.1. UN number or ID number

N/A

14.2. UN proper shipping name

ADR-Shipping Name: N/A IATA-Technical name: N/A IMDG-Technical name: N/A

14.3. Transport hazard class(es)

ADR-Class: N/A IATA-Class: N/A IMDG-Class: N/A

14.4. Packing group

ADR-Packing Group: N/A IATA-Packing group: N/A IMDG-Packing group: N/A

14.5. Environmental hazards

Marine pollutant: No

Environmental Pollutant: No

IMDG-EMS: N/A

14.6. Special precautions for user

Road and Rail (ADR-RID):

ADR-Label: N/A

ADR - Hazard identification number: N/A

ADR-Special Provisions: N/A

ADR-Transport category (Tunnel restriction code): N/A

ADR Limited Quantities: N/A ADR Excepted Quantities: N/A

Air (IATA):

IATA-Passenger Aircraft: N/A IATA-Cargo Aircraft: N/A

IATA-Label: N/A

 $IATA\hbox{-}Subsidiary\ hazards\colon\ N/A$

IATA-Erg: N/A

IATA-Special Provisioning: N/A

Sea (IMDG):

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IMDG-Stowage Code: N/A
IMDG-Stowage Note: N/A
IMDG-Subsidiary hazards: N/A
IMDG-Special Provisioning: N/A

14.7. Maritime transport in bulk according to IMO instruments

N.A.

SECTION 15: Regulatory information

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

EN 196-10 - "Methods of Testing Cement - Part 10: Determination of the water-soluble chromium (VI) content of cement"

According to Annex XVII, Point 47, under Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as amended by Regulation No. 552/2009, cement and mixtures containing cement shall not be placed on the market or used if they contain, after mixing with water, more than 0.0002% (2 ppm) of soluble chromium (VI) of the total dry weight of the cement. Considering that once mixed with water, white cement does not contain more than 0.0002% (2 ppm) of water-soluble Cr (VI) on the total dry weight, the same mixture can be marketed without the addition of reducing agents. Cement is a mixture and, as such, is not subject to REACH registration, which is mandatory for substances. Cement clinker is a substance, but it is exempt from registration pursuant to article 2.7 (b) and Annex V.10 of REACH.

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Regulation (EU) n. 2017/776 (ATP 10 CLP)

Regulation (EU) n. 2018/669 (ATP 11 CLP)

Regulation (EU) n. 2018/1480 (ATP 13 CLP)

Regulation (EU) n. 2019/521 (ATP 12 CLP)

Regulation (EU) n. 2020/878

Regulation (EC) nr 648/2004 (Detergents).

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: None

Restrictions related to the substances contained: None

Provisions related to directive EU 2012/18 (Seveso III):

N.A.

Regulation (EU) 649/2012 (PIC regulation):

No Substance Listed

German Water Hazard Class.

NWG: Not hazardous for water

SVHC Substances:

No data available

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

Code	Description	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H335	May cause respiratory irritation.	
Code	Hazard class and hazard category	Description
3.2/2	Skin Irrit. 2	Skin irritation, Category 2

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3.3/1 Eye Dam. 1 Serious eye damage, Category 1
3.4.2/1B Skin Sens. 1B Skin Sensitisation, Category 1B

3.8/3 STOT SE 3 Specific target organ toxicity — single exposure, Category 3

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation Classification procedure (EC) Nr. 1272/2008

3.2/2 Calculation method

3.3/1 On basis of test data (pH)

3.4.2/1B Calculation method
3.8/3 Calculation method

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor

BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand

COV: Volatile Organic Compound

CSA: Chemical Safety Assessment

CSR: Chemical Safety Report

DMEL: Derived Minimal Effect Level

DNEL: Derived No Effect Level.

DPD: Dangerous Preparations Directive

DSD: Dangerous Substances Directive

EC50: Half Maximal Effective Concentration

ECHA: European Chemicals Agency

EINECS: European Inventory of Existing Commercial Chemical Substances.

ES: Exposure Scenario

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

IC50: half maximal inhibitory concentration

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods.

INCI: International Nomenclature of Cosmetic Ingredients.

IRCCS: Scientific Institute for Research, Hospitalization and Health Care

KAFH: Keep Away From Heat

KSt: Explosion coefficient.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

LDLo: Leathal Dose Low

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N.A.: Not Applicable N/A: Not Applicable

N/D: Not defined/ Not available

NA: Not available

NIOSH: National Institute for Occupational Safety and Health

NOAEL: No Observed Adverse Effect Level

OSHA: Occupational Safety and Health Administration.

PBT: Persistent, Bioaccumulative and Toxic

PGK: Packaging Instruction

PNEC: Predicted No Effect Concentration.

PSG: Passengers

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

STEL: Short Term Exposure limit. STOT: Specific Target Organ Toxicity.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

vPvB: Very Persistent, Very Bioaccumulative.

WGK: German Water Hazard Class.

Paragraphs modified from the previous revision:

- 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
- 7. HANDLING AND STORAGE
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 9. PHYSICAL AND CHEMICAL PROPERTIES
- 13. DISPOSAL CONSIDERATIONS
- 15. REGULATORY INFORMATION
- 16. OTHER INFORMATION

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