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Replaced revision:2 (Dated 14/07/2020)

Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

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

1.1. Product identifier

MT5009-0 Code Product name Nitrogen Reagent

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

Determination of Nitrogen in Soil (Extract) Samples.

Fax

1.3. Details of the supplier of the safety data sheet

Milwaukee Electronics Kft. Full address Alsókikötő sor 11. **District and Country** H6726 Szeged Hungary Tel. +36-62-428-050

e-mail address of the competent person responsible for the Safety Data Sheet

info@milwaukeeinst.com

+36-62-428-051

1.4. Emergency telephone number

For urgent inquiries refer to

Austria tel.: +431 406 43 43 - Belgium tel.: 070/245.245 - Bulgaria tel.: +359 2 9154409 - Czech Republic tel.: +420 224 919 293, +420 224 915 402 - Denmark tel.: 8212 12 12 - Estonia tel.: 112 - Finland tel.: (09) 471 977 (direct) or (09) 4711 (exchange) - France tel. ORFILA (INRS) : + 33 (0)1 45 42 59 59 - Ireland tel.: 01 8092166 - Lithuania tel.: +370 5 236 20 52, +370 687 53378 - Malta tel: 2545 0000, Medicines & Poisons Info Office tel.: 2545 6504 - Norway tel.: 22 59 13 00 -Portugal tel.: 808 250 143 - Romania tel. 021.318.36.06 (8:00 - 15:00) - Slovakia tel.: +421 2 5477 4166 - Spain tel.: + 34 91 562 04 20 - Sweden tel.: 112; 08-331231 (9:00-17:00)

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2015/830

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Acute toxicity, category 3 Toxic if inhaled. H331 Skin corrosion, category 1A H314 Causes severe skin burns and eye damage. Serious eye damage, category 1 H318 Causes serious eve damage Hazardous to the aquatic environment, chronic H412 Harmful to aquatic life with long lasting effects. toxicity, category 3

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words: Danger



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SECTION 2. Hazards identification

Hazard statements:

Toxic if inhaled H331

H314 Causes severe skin burns and eye damage. H412 Harmful to aquatic life with long lasting effects.

EUH071 Corrosive to the respiratory tract.

Precautionary statements:

P260 Do not breathe dust, fume, gas, mist, vapours, spray.

P280 Wear protective gloves / protective clothing / eye protection / face protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Immediately call a POISON CENTER or doctor.

POTASSIUM DISULFATE Contains:

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification x = Conc. % Classification 1272/2008 (CLP)

BARIUM SULFATE

CAS 7727-43-7 $9 \le x < 30$ Substance with a community workplace exposure limit.

EC 231-784-4

INDEX

CITRIC ACID MONOHYDRATE

CAS 5949-29-1 $10 \le x < 30$ Eye Irrit. 2 H319 201-069-1

FC INDEX

POTASSIUM DISULFATE

CAS 7790-62-7 $9 \le x < 17$ Acute Tox. 3 H331, Skin Corr. 1A H314, Eye Dam. 1 H318, EUH071

232-216-8 FC

INDEX

01-2119987095-26 Reg. no.

ZINC POWDER STABILIZED

7440-66-6 $0.5 \le x < 1$ Aquatic Acute 1 H400 M=10, Aquatic Chronic 1 H410 M=1 CAS

EC 231-175-3 INDEX 030-001-01-9

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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

Specific information on symptoms and effects caused by the product are unknown.

CITRIC ACID MONOHYDRATE

Irritant effects, Pain, Bloody vomiting.



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SECTION 4. First aid measures .../>>

POTASSIUM DISULFATE

Irritation and corrosion, Cough, Shortness of breath. Risk of blindness!.

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

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products. The product is combustible and, when the powder is released into the air in sufficient concentrations and in the presence of a source of ignition, it can create explosive mixtures with air. Fires may start or get worse by leakage of the solid product from the container, when it reaches high temperatures or through contact with sources of ignition.

POTASSIUM DISULFATE

Not combustible. Ambient fire may liberate hazardous vapours. Fire may cause evolution of: Sulphur oxides.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

If there are no contraindications, spray powder with water to prevent the formation of dust.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product and place it in containers for recovery or disposal. If there are no contraindications, use jets of water to eliminate product residues.

Make sure the leakage site is well aired. Evaluate the compatibility of the container to be used, by checking section 10. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.



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SECTION 7. Handling and storage .../>>

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

Storage class TRGS 510 (Germany): 6.1C

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

BEL	Belgique	AR du 11/3/2002. La liste est mise à jour pour 2017
BGR	България	МИНИСТЕРСТВО НА ТРУДА И СОЦИАЛНАТА ПОЛИТИКА МИНИСТЕРСТВО НА
		ЗДРАВЕОПАЗВАНЕТО НАРЕДБА No 13 от 30 декември 2003 г (4 Септември 2018г)
CHE	Suisse / Schweiz	Valeurs limites d'exposition aux postes de travail en Suisse: valeurs VME/VLE. Version Juin 2019 (SUVA)
DEU	Deutschland	TRGS 900 - Seite 1 von 69 (Fassung 29.03.2019)- Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte
ESP	España	LÍMITES DE EXPOSICIÓN PROFESIONAL PARA AGENTES QUÍMICOS EN ESPAÑA 2019 (INSST)
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
HRV	Hrvatska	Pravilnik o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 91/18)
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
IRL	Éire	2018 Code of Practice for the Chemical Agents Regulations Safety Authority
ROU	România	HOTĂRÂRE nr. 584 din 2 august 2018 pentru modificarea Hotărârii Guvernului nr. 1.218/2006 privind stabilirea cerințelor minime de securitate și sănătate în muncă pentru asigurarea protecției lucrătorilor împotriva riscurilor legate de prezența agenților chimici
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Third edition, published 2018)
EU	OEL EU	Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2020



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SECTION 8. Exposure controls/personal protection

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				BARIU	WISULFAIE				
hreshold Limit	Value								
Туре	Country	TWA/8h		STEL/1	5min	Remarks /	Observations		
		mg/m3	ppm	mg/m3	ppm				
VLEP	BEL	10							
TLV	BGR	10							
MAK	CHE	0,5					Ва		
MAK	DEU	1,5				RESP			
VLA	ESP	10							
VLEP	FRA	0,5					Ва		
GVI/KGVI	HRV	10				INHAL			
GVI/KGVI	HRV	4				RESP			
VLEP	ITA	0,5					Ва		
OELV	IRL	2				RESP			
TLV	ROU	0,5					Ва		
WEL	GBR	10				INHAL			
WEL	GBR	4				RESP			
OEL	EU	0,5					Ва		
TLV-ACGIH		5							
redicted no-ef	fect concenti	ration - PNE	С						
Normal value	in fresh water	r					0,115	mg/l	
Normal value	for fresh water	er sediment					600	mg/kg/d	
Normal value	of STP micro	organisms					62,2	mg/l	
Normal value	for the terrest	trial compartr	ment				207	mg/kg/d	
ealth - Derived									
	Effe	ects on consu	umers			Effects on we	orkers		
Route of expo	sure Acı	ute Acı	ute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loc	al sys	stemic	local	systemic	local	systemic	local	systemic
Inhalation		•		VND	10		•	10	10
					mg/m3			mg/m3	mg/m3
								J	
				CITRIC ACIE	MONOHYDR	ATE			
Predicted no-ef			С						
Normal value	in fresh water	r					0,44	mg/l	
Normal value	in marine wat	ter					0,044	mg/l	

CITRIC ACID MONOHYDRAT	E	
Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,44	mg/l
Normal value in marine water	0,044	mg/l
Normal value for fresh water sediment	34,6	mg/kg/d
Normal value for marine water sediment	3,46	mg/kg/d
Normal value of STP microorganisms	1000	mg/l
Normal value for the terrestrial compartment	33.1	ma/ka/d

POTAS	SIUM DISULFATE
Predicted no-effect concentration - PNEC	
Normal value in fresh water	0,68 mg/l
Normal value in marine water	0,068 mg/l
Normal value for fresh water sediment	2,5 mg/kg/d
Normal value for marine water sediment	0,25 mg/kg/d
Normal value for water, intermittent release	6,8 mg/l
Normal value of STP microorganisms	800 mg/l
Normal value for the terrestrial compartment	0,092 mg/kg/d
Health - Derived no-effect level - DNEL / DMEL	
Effects on consumers	Cffeete en werkere

Health - Derived no-effe	ect ievei - Di	NEL / DIVIEL									
	Effects on consumers						Effects on workers				
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic			
	local	systemic	local	systemic	local	systemic	local	systemic			
Inhalation							0,13 mg/m3	0,13 mg/m3			



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SECTION 8. Exposure controls/personal protection

ZINC POWDER STABILIZED

						_			
Threshold Limit Value	е								
Type Co	ountry	TWA/8h		STEL/15	min	Remarks / C	bservations		
		mg/m3	ppm	mg/m3	ppm				
MAK D	EU	0,1		0,4		RESP			
Predicted no-effect co	oncentrat	tion - PNE	C						
Normal value in free	sh water						0,0206	mg/l	
Normal value in ma	rine water	r					0,0061	mg/l	
Normal value for fre	sh water	sediment					117,8	mg/kg/d	
Normal value for ma	arine wate	er sediment					56,5	mg/kg/d	
Normal value of ST	P microor	ganisms					0,1	mg/l	
Normal value for the	e terrestria	al compartr	nent				35,6	mg/kg/d	
lealth - Derived no-e	ffect leve	I - DNEL /	DMEL						
	Effec	ts on consu	ımers			Effects on wo	kers		
Route of exposure	Acute	e Acı	ute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	sys	temic	local	systemic	local	systemic	local	systemic
Oral				VND	0,83				
					mg/kg bw/d				
Inhalation				VND	2,5			VND	5
					mg/m3				mg/m3
Skin				VND	83			VND	83
					mg/kg bw/d				mg/kg
									bw/d

Legend:

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction. VND = hazard identified but no DNEL/PNEC available; NEA = no exposure expected; NPI = no hazard identified.

During the risk assessment process, it is essential to take into consideration the ACGIH occupational exposure levels for inert particulate not otherwise classified (PNOC respirable fraction: 3 mg/m3; PNOC inhalable fraction: 10 mg/m3). For values above these limits, use a P type filter, whose class (1, 2 or 3) must be chosen according to the outcome of risk assessment.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

In the case of prolonged contact with the product, protect the hands with penetration-resistant work gloves (see standard EN 374).

Work glove material must be chosen according to the use process and the products that may form. Latex gloves may cause sensitivity reactions.

SKIN PROTECTION

Wear category III professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYÉ PROTECTION

Wear a hood visor or protective visor combined with airtight goggles (see standard EN 166).

RESPIRATORY PROTECTION

Use a type P filtering facemask, whose class (1, 2 or 3) and effective need, must be defined according to the outcome of risk assessment (see standard EN 149).

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties Value Information

Appearance powder
Colour white
Odour odourless
Odour threshold Not available
pH 2 pH - 29 g/L
Melting point / freezing point Not available



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SECTION 9. Physical and chemical properties

Initial boiling point Not applicable Boiling range Not available Flash point Not applicable Not available Evaporation rate Flammability (solid, gas) Not available Not available Lower inflammability limit Upper inflammability limit Not available Lower explosive limit Not available Upper explosive limit Not available Not available Vapour pressure Vapour density Not available

Relative density 1,9

Solubility partially soluble in water

Partition coefficient: n-octanol/water
Auto-ignition temperature
Decomposition temperature
Viscosity
Not available

9.2. Other information

Total solids (250°C / 482°F) 100,00 %

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

The powders are potentially explosive when mixed with air.

CITRIC ACID MONOHYDRATE

Violent reactions possible with: Metals, Oxidizing agents, Bases, Reducing agents.

ZINC POWDER STABILIZED

Risk of explosion on contact with: ammonium nitrate, ammonium sulphide, barium peroxide, lead nitride, chlorates, chromium trioxide, sodium hydroxide solutions, oxidising agents, performic acid, acids, tetrachloromethane, water. May react dangerously with alkali hydroxides, bromine pentafluoride, calcium chloride solution, fluorine, hexachloroethane, nitrobenzene, potassium dioxide, carbon disulphide, silver. Reacts with acids and strong alkalis developing hydrogen.

10.4. Conditions to avoid

Avoid environmental dust build-up.

POTASSIUM DISULFATE Exposure to moisture.

10.5. Incompatible materials

CITRIC ACID MONOHYDRATE Metals.

ZINC POWDER STABILIZED

Water, strong alkalis and acids.

10.6. Hazardous decomposition products

Information not available



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SECTION 11. Toxicological information

11.1. Information on toxicological effects

POTASSIUM DISULFATE

Acute inhalation toxicity, absorption, Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages, damage of respiratory tract, Lung oedema, Symptoms may be delayed - Skin irritation (in analogy to similar products), Causes severe burns. - Eye irritation (in analogy to similar products), Causes serious eye damage. Risk of blindness!

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation) of the mixture: > 5 mg/l

ATE (Oral) of the mixture:

ATE (Dermal) of the mixture:

Not classified (no significant component)

Not classified (no significant component)

Corrosive to the respiratory tract.

POTASSIUM DISULFATE

LD50 (Oral) 2140 mg/kg Rat LC50 (Inhalation) 0,85 mg/l/4h Rat

CITRIC ACID MONOHYDRATE

LD50 (Oral) 3000 mg/kg Rat LD50 (Dermal) > 2000 mg/kg

BARIUM SULFATE

LD50 (Oral) > 3000 mg/kg Mouse

SKIN CORROSION / IRRITATION

Corrosive for the skin

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

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SECTION 11. Toxicological information .../>>

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

SECTION 12. Ecological information

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment.

12.1. Toxicity

POTASSIUM DISULFATE

LC50 - for Fish 680 mg/l/96h Pimephales promelas EC50 - for Crustacea 720 mg/l/48h Daphnia magna

CITRIC ACID MONOHYDRATE

LC50 - for Fish 440 mg/l/96h Leuciscus idus

ZINC POWDER STABILIZED

LC50 - for Fish 7,1 mg/l/96h Nothobranchius guentheri EC50 - for Crustacea 0,416 mg/l/48h Ceriodaphnia dubia

EC50 - for Algae / Aquatic Plants 0,015 mg/l/72h Pseudokirchneriella subcapitata

EC10 for Algae / Aquatic Plants 0,084 mg/l/72h Nitzschia closterium, Diatom, Bacillariaceae

Chronic NOEC for Fish 0,25 mg/l Salmo trutta
Chronic NOEC for Crustacea 0,05 mg/l Daphnia magna

12.2. Persistence and degradability

CITRIC ACID MONOHYDRATE

Solubility in water > 10000 mg/l

Rapidly degradable

BARIUM SULFATE

Solubility in water 0,1 - 100 mg/l

Degradability: information not available

ZINC POWDER STABILIZED

Solubility in water 0,1 - 100 mg/l

Degradability: information not available

12.3. Bioaccumulative potential

CITRIC ACID MONOHYDRATE

Partition coefficient: n-octanol/water -1,64 Log Kow

BCF 3,2

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

12.6. Other adverse effects

CITRIC ACID MONOHYDRATE

Harmful effect due to pH shift. Discharge into the environment must be avoided.



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SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

14.1. UN number

ADR / RID, IMDG, IATA: 2923

14.2. UN proper shipping name

ADR / RID: CORROSIVE SOLID, TOXIC, N.O.S. (Potassium Disulfate mixture) IMDG: CORROSIVE SOLID, TOXIC, N.O.S. (Potassium Disulfate mixture) IATA: CORROSIVE SOLID, TOXIC, N.O.S. (Potassium Disulfate mixture)

14.3. Transport hazard class(es)

ADR / RID: Class: 8 Label: 8 (6.1)

IMDG: Class: 8 Label: 8 (6.1)

IATA: Class: 8 Label: 8 (6.1)



14.4. Packing group

ADR / RID, IMDG, IATA: III

14.5. Environmental hazards

ADR / RID: NO IMDG: NO IATA: NO

14.6. Special precautions for user

ADR / RID: HIN - Kemler: 86 Limited Quantities: 5 kg Tunnel restriction code: (E)

Special provision: -

IMDG: EMS: F-A, S-B Limited Quantities: 5 kg
IATA: Cargo: Maximum quantity: 100 Kg

Cargo: Maximum quantity: 100 Kg Packaging instructions: 864
Pass.: Maximum quantity: 25 Kg Packaging instructions: 860

Special provision: A3, A803

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EC:



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SECTION 15. Regulatory information ... / >

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

None

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0.1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017)

WGK 2: Hazard to waters

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Acute Tox. 3 Acute toxicity, category 3
Skin Corr. 1A Skin corrosion, category 1A
Eye Dam. 1 Serious eye damage, category 1

Eye Irrit. 2 Eye irritation, category 2

Aquatic Acute 1 Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1 Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 3 Hazardous to the aquatic environment, chronic toxicity, category 3

H331 Toxic if inhaled.

H314 Causes severe skin burns and eye damage.

H318Causes serious eye damage.H319Causes serious eye irritation.H400Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.H412 Harmful to aquatic life with long lasting effects.

EUH071 Corrosive to the respiratory tract.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration



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SECTION 16. Other information .../>>

- PEL: Predicted exposure level- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
- 16. Regulation (EU) 2019/521 (XII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Regulation (EU) 2020/217 (XIV Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:

The following sections were modified:

08.