	Electronics Kft.	Dated 08/03/2023 Printed on 08/03/2023 Page n. 1/12
MT5009-0 - I	Nitrogen Reagent	Page n. 1/12 Replaced revision:4 (Dated 15/11/2022)
S	afety Data Sheet	
According to Annex II to REA	CH - Regulation 2020/878 and to Annex II t	0 UK REACH
ion of the substance/mi	xture and of the company/unde	rtaking
		rainig
-	-	
Determ	ination of Nitrogen in Soil (Extract) Samples	5.
e safety data sheet		
tent person ata Sheet info@m	ilwaukeeinst.com	
ber		
915440 8212 12 (exchar 809216 0000,M Portuga +421 2	9 - Czech Republic tel.: +420 224 919 293, 2 12 - Estonia tel.: 112 - Finland tel.: (09) 47 nge) - France tel. ORFILA (INRS) : + 33 (0) ⁷ 6 - Lithuania tel.: +370 5 236 20 52, +370 6 edicines & Poisons Info Office tel.: 2545 65 al tel.: 808 250 143 - Romania tel. 021.318.3 5477 4166 - Spain tel.: + 34 91 562 04 20 -	+420 224 915 402 - Denmark tel.: 71 977 (direct) or (09) 4711 1 45 42 59 59 - Ireland tel.: 01 87 53378 - Malta tel: 2545 604 - Norway tel.:22 59 13 00 - 36.06 (8:00 – 15:00) – Slovakia tel.:
	S. According to Annex II to REA on of the substance/mi MT5000 Nitroge the substance or mixture and us Determ e safety data sheet Milwaul Alsókiki H6726 Tel. Fax ta Sheet info@m ber Austria 915440 8212 12 (exchar 809216 0000,M Portuga +421 2	Milwaukee Electronics Kft. Alsókikötő sor 11. H6726 Szeged Hungary Tel. +36-62-428-050 Fax +36-62-428-051 eent person ta Sheet info@milwaukeeinst.com

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 2020/878.

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:H331Toxic if inhaled.Acute toxicity, category 3H331Toxic if inhaled.Skin corrosion, category 1AH314Causes severe skin burns and eye damage.Serious eye damage, category 1H318Causes serious eye damage.Hazardous to the aquatic environment, chronicH412Harmful to aquatic life with long lasting effects.toxicity, category 3HHH

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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milwaukee (MT5009-0	0 - Nitrogen Reagent	Page n. 2 / 12 Replaced revision:4 (Dated 15/11/2022)
SECTION 2. Hazards ident	ification / >>		
Hazard statements:			
H331	Toxic if inhaled.		
H314	Causes severe skin bu	urns and eye damage.	
H412		with long lasting effects.	
EUH071	Corrosive to the respir	atory tract.	
Precautionary statements:			
P260		ume, gas, mist, vapours, spray.	
P280	Wear protective gloves	s / protective clothing / eye protection / face pr	rotection.
P303+P361+P353		Take off immediately all contaminated clothing	
P305+P351+P338		utiously with water for several minutes. Remov	ve contact lenses, if present and easy to
	do. Continue rinsing.		
P310	Immediately call a PO	ISON CENTER or doctor.	
Contains:	POTASSIUM DISULF.	ATE	
.3. Other hazards			
On the basis of available da	ata, the product does not co	ontain any PBT or vPvB in percentage ≥ than 0	D,1%.
		ontain any PBT or vPvB in percentage ≥ than 0 ne disrupting properties in concentration ≥ 0.1	
The product does not conta	in substances with endocri		
	in substances with endocri		
The product does not conta	in substances with endocri		
The product does not conta SECTION 3. Composition/info	in substances with endocri		
The product does not conta SECTION 3. Composition/info	in substances with endocri		
The product does not conta SECTION 3. Composition/info 2.2. Mixtures Contains: Identification BARIUM SULFATE	in substances with endocrin rmation on ingredients x = Conc. %	ne disrupting properties in concentration ≥ 0.1 Classification (EC) 1272/2008 (CLP)	%.
The product does not conta ECTION 3. Composition/info .2. Mixtures Contains: Identification BARIUM SULFATE INDEX	in substances with endocrin	ne disrupting properties in concentration ≥ 0.1	%.
The product does not conta ECTION 3. Composition/info .2. Mixtures Contains: Identification BARIUM SULFATE INDEX EC 231-784-4	in substances with endocrin rmation on ingredients x = Conc. %	ne disrupting properties in concentration ≥ 0.1 Classification (EC) 1272/2008 (CLP)	%.
The product does not conta SECTION 3. Composition/info 2.2. Mixtures Contains: Identification BARIUM SULFATE INDEX EC 231-784-4 CAS 7727-43-7	in substances with endocrin rmation on ingredients x = Conc. % $9 \le x \le 30$	ne disrupting properties in concentration ≥ 0.1 Classification (EC) 1272/2008 (CLP)	%.
The product does not conta ECTION 3. Composition/info .2. Mixtures Contains: Identification BARIUM SULFATE INDEX EC 231-784-4 CAS 7727-43-7 CITRIC ACID MONOHYDE	in substances with endocrin rmation on ingredients x = Conc. % $9 \le x < 30$	ne disrupting properties in concentration ≥ 0.1 Classification (EC) 1272/2008 (CLP) Substance with a community workplace	%.
The product does not conta ECTION 3. Composition/info .2. Mixtures Contains: Identification BARIUM SULFATE INDEX EC 231-784-4 CAS 7727-43-7 CITRIC ACID MONOHYDR INDEX	in substances with endocrin rmation on ingredients x = Conc. % $9 \le x \le 30$	ne disrupting properties in concentration ≥ 0.1 Classification (EC) 1272/2008 (CLP)	%.
The product does not conta ECTION 3. Composition/info .2. Mixtures Contains: Identification BARIUM SULFATE INDEX EC 231-784-4 CAS 7727-43-7 CITRIC ACID MONOHYDE INDEX EC 201-069-1	in substances with endocrin rmation on ingredients x = Conc. % $9 \le x < 30$	ne disrupting properties in concentration ≥ 0.1 Classification (EC) 1272/2008 (CLP) Substance with a community workplace	%.
The product does not conta ECTION 3. Composition/info 2.2. Mixtures Contains: Identification BARIUM SULFATE INDEX EC 231-784-4 CAS 7727-43-7 CITRIC ACID MONOHYDE INDEX EC 201-069-1 CAS 5949-29-1	in substances with endocrin rmation on ingredients x = Conc. % $9 \le x < 30$	ne disrupting properties in concentration ≥ 0.1 Classification (EC) 1272/2008 (CLP) Substance with a community workplace	%.
The product does not conta ECTION 3. Composition/info 2. Mixtures Contains: Identification BARIUM SULFATE INDEX EC 231-784-4 CAS 7727-43-7 CITRIC ACID MONOHYDE INDEX EC 201-069-1 CAS 5949-29-1 POTASSIUM DISULFATE	in substances with endocrin rmation on ingredients x = Conc. % $9 \le x < 30$ CATE $10 \le x < 30$	ne disrupting properties in concentration ≥ 0.1 Classification (EC) 1272/2008 (CLP) Substance with a community workplace Eye Irrit. 2 H319	%. e exposure limit.
The product does not conta ECTION 3. Composition/info 2.2. Mixtures Contains: Identification BARIUM SULFATE INDEX EC 231-784-4 CAS 7727-43-7 CITRIC ACID MONOHYDE INDEX EC 201-069-1 CAS 5949-29-1 POTASSIUM DISULFATE INDEX	in substances with endocrin rmation on ingredients x = Conc. % $9 \le x < 30$	ne disrupting properties in concentration ≥ 0.1 Classification (EC) 1272/2008 (CLP) Substance with a community workplace Eye Irrit. 2 H319 Acute Tox. 3 H331, Skin Corr. 1A H314	%. e exposure limit. 4, Eye Dam. 1 H318, EUH071
The product does not conta ECTION 3. Composition/info 2.2. Mixtures Contains: Identification BARIUM SULFATE INDEX EC 231-784-4 CAS 7727-43-7 CITRIC ACID MONOHYDF INDEX EC 201-069-1 CAS 5949-29-1 POTASSIUM DISULFATE INDEX EC 232-216-8	in substances with endocrin rmation on ingredients x = Conc. % $9 \le x < 30$ CATE $10 \le x < 30$	ne disrupting properties in concentration ≥ 0.1 Classification (EC) 1272/2008 (CLP) Substance with a community workplace Eye Irrit. 2 H319	%. e exposure limit. 4, Eye Dam. 1 H318, EUH071
The product does not conta ECTION 3. Composition/info 2. Mixtures Contains: Identification BARIUM SULFATE INDEX EC 231-784-4 CAS 7727-43-7 CITRIC ACID MONOHYDF INDEX EC 201-069-1 CAS 5949-29-1 POTASSIUM DISULFATE INDEX EC 232-216-8 CAS 7790-62-7	in substances with endocrin rmation on ingredients x = Conc. % $9 \le x < 30$ EATE $10 \le x < 30$ $9 \le x < 17$	ne disrupting properties in concentration ≥ 0.1 Classification (EC) 1272/2008 (CLP) Substance with a community workplace Eye Irrit. 2 H319 Acute Tox. 3 H331, Skin Corr. 1A H314	%. e exposure limit. 4, Eye Dam. 1 H318, EUH071
The product does not conta SECTION 3. Composition/info 2. Mixtures Contains: Identification BARIUM SULFATE INDEX EC 231-784-4 CAS 7727-43-7 CITRIC ACID MONOHYDR INDEX EC 201-069-1 CAS 5949-29-1 POTASSIUM DISULFATE INDEX EC 232-216-8 CAS 7790-62-7 REACH Reg. 01-211998	in substances with endocrin rmation on ingredients x = Conc. % $9 \le x < 30$ CATE $10 \le x < 30$ $9 \le x < 17$ 7095-26	ne disrupting properties in concentration ≥ 0.1 Classification (EC) 1272/2008 (CLP) Substance with a community workplace Eye Irrit. 2 H319 Acute Tox. 3 H331, Skin Corr. 1A H314	%. e exposure limit. 4, Eye Dam. 1 H318, EUH071
The product does not conta ECTION 3. Composition/info 2.2. Mixtures Contains: Identification BARIUM SULFATE INDEX EC 231-784-4 CAS 7727-43-7 CITRIC ACID MONOHYDE INDEX EC 201-069-1 CAS 5949-29-1 POTASSIUM DISULFATE INDEX EC 232-216-8 CAS 7790-62-7 REACH Reg. 01-211998 ZINC POWDER STABILIZE	in substances with endocrin rmation on ingredients x = Conc. % $9 \le x < 30$ CATE $10 \le x < 30$ $9 \le x < 17$ 7095-26 ED	ne disrupting properties in concentration ≥ 0.1 Classification (EC) 1272/2008 (CLP) Substance with a community workplace Eye Irrit. 2 H319 Acute Tox. 3 H331, Skin Corr. 1A H314 LC50 Inhalation mists/powders: 0,85 m	%. e exposure limit. 4, Eye Dam. 1 H318, EUH071 Ig/l/4h
The product does not conta SECTION 3. Composition/info 2. Mixtures Contains: Identification BARIUM SULFATE INDEX EC 231-784-4 CAS 7727-43-7 CITRIC ACID MONOHYDR INDEX EC 201-069-1 CAS 5949-29-1 POTASSIUM DISULFATE INDEX EC 232-216-8 CAS 7790-62-7 REACH Reg. 01-211998 ZINC POWDER STABILIZE INDEX 030-001-01	in substances with endocrin rmation on ingredients x = Conc. % $9 \le x < 30$ CATE $10 \le x < 30$ $9 \le x < 17$ 7095-26 ED	ne disrupting properties in concentration ≥ 0.1 Classification (EC) 1272/2008 (CLP) Substance with a community workplace Eye Irrit. 2 H319 Acute Tox. 3 H331, Skin Corr. 1A H314	%. e exposure limit. 4, Eye Dam. 1 H318, EUH071 Ig/l/4h
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The product does not conta ECTION 3. Composition/info 2. Mixtures Contains: Identification BARIUM SULFATE INDEX EC 231-784-4 CAS 7727-43-7 CITRIC ACID MONOHYDR INDEX EC 201-069-1 CAS 5949-29-1 POTASSIUM DISULFATE INDEX EC 232-216-8 CAS 7790-62-7 REACH Reg. 01-211998 ZINC POWDER STABILIZE INDEX 030-001-01	in substances with endocrin rmation on ingredients x = Conc. % $9 \le x < 30$ CATE $10 \le x < 30$ $9 \le x < 17$ 7095-26 ED	ne disrupting properties in concentration ≥ 0.1 Classification (EC) 1272/2008 (CLP) Substance with a community workplace Eye Irrit. 2 H319 Acute Tox. 3 H331, Skin Corr. 1A H314 LC50 Inhalation mists/powders: 0,85 m	%. e exposure limit. 4, Eye Dam. 1 H318, EUH071 Ig/l/4h

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.

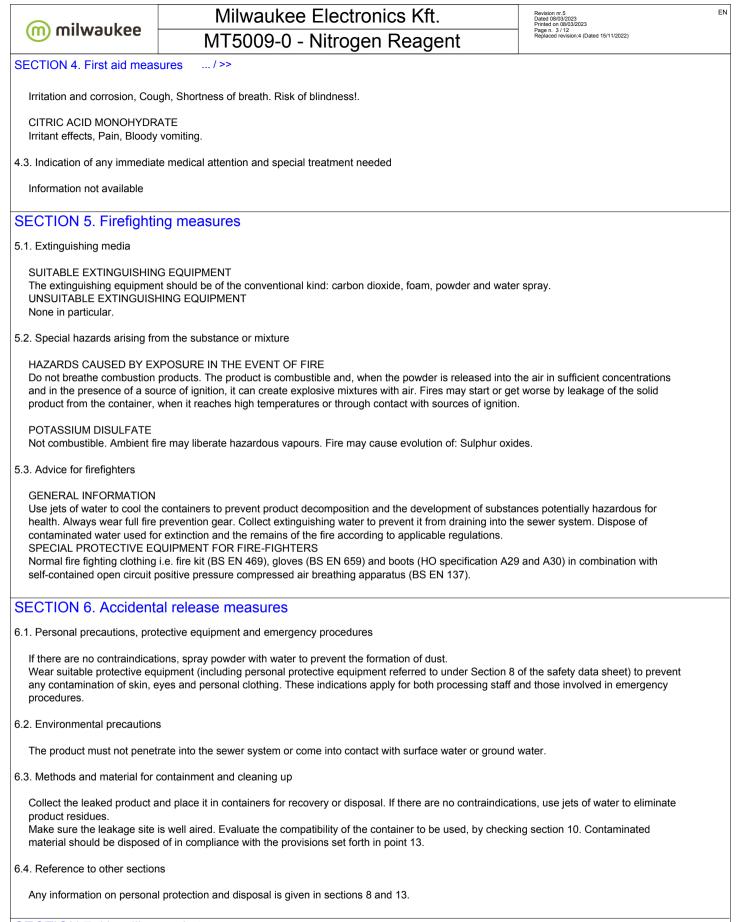
INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

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.

POTASSIUM DISULFATE



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.

milwauko	ee	Milwauk				Revision nr.5 Dated 08/03/2 Printed on 08 Page n. 4 / 1	2		
M		MT5009-0	5009-0 - Nitrogen Reagent			Replaced revi	Replaced revision:4 (Dated 15/11/2022)		
CTION 7. Handlin	g and storage	/ >>							
Conditions for safe	storage, includin	g any incompatib	oilities						
Store only in the orig from any incompatibl				well ventilated p	lace, away fro	m direct sunlight	Keep contai	ners away	
Storage class TRGS	510 (Germany):		6.1C						
. Specific end use(s)	1								
Information not availa	able								
ECTION 8. Exp	osure contro	ls/personal	protection						
. Control parameters	;								
Regulatory Referenc	es:								
BEL	Belgique					ues, livre VI du co			
BGR	България		И С ЕКСПОЗИ			ИТА НА РАБОТЕ И ПРИ РАБОТА			
CHE	Suisse / Schweiz		ites d'expositio	on aux postes d	e travail: VME	/VLE (SUVA). Gr	enzwerte am	Arbeitsplatz:	
DEU	Deutschland	Technische Kurzzeitwe	en Regeln für G rte. MAK- und	BAT-Werte-Lis	te 2020, Ständ	te der Arbeitsplat lige Senatskomm	•		
ESP	España	•		vrbeitsstoffe, Mi ofesional para a	•	os en España 20	21		
	France					chimiques en Fr		- INRS	
HRV	Hrvatska					adnika od izložer			
			izingonania i a	opuliallia Flavi	TIKA U Zasuu I		ioou opuoriim	Kernikanjama	
						n graničnim vrijed			
	Italia	na radu, gr Decreto Le	aničnim vrijedr gislativo 9 Apri	nostima izložen ile 2008, n.81	osti i biološkim	n graničnim vrijed	nostima (NN	1/2021)	
	Italia Éire	na radu, gr Decreto Le 2020 Code	aničnim vrijedr gislativo 9 Apri of Practice for	nostima izložen ile 2008, n.81 the Safety, He	osti i biološkim alth and Welfa	n graničnim vrijed are at Work (Cher	nostima (NN nical Agents)	1/2021) Regulations	
IRL	Éire	na radu, gr Decreto Le 2020 Code (2001-2015	aničnim vrijedr gislativo 9 Apri of Practice for 5) and the Safe	nostima izložen ile 2008, n.81 the Safety, He ety, Health and	osti i biološkim alth and Welfa Welfare at Wo	n graničnim vrijed are at Work (Cher rk (Carcinogens)	nostima (NN nical Agents) Regulations	1/2021) Regulations (2001-2019)	
IRL		na radu, gr Decreto Le 2020 Code (2001-2015 Hotărârea I	aničnim vrijedr gislativo 9 Apri of Practice for 5) and the Safe nr. 53/2021 pe	nostima izložen ile 2008, n.81 the Safety, He ety, Health and ntru modificarea	osti i biološkim alth and Welfa Welfare at Wo a hotărârii guv	n graničnim vrijed are at Work (Cher rk (Carcinogens) ernului nr. 1.218/	nostima (NN nical Agents) Regulations	1/2021) Regulations (2001-2019)	
IRL ROU	Éire România	na radu, gr Decreto Le 2020 Code (2001-2015 Hotărârea modificarea	aničnim vrijedr gislativo 9 Apri of Practice for 5) and the Safe nr. 53/2021 per a și completare	nostima izložen ile 2008, n.81 the Safety, He ety, Health and ntru modificare a hotărârii guve	osti i biološkim alth and Welfa Welfare at Wo a hotărârii guv ernului nr. 1.09	n graničnim vrijed are at Work (Cher rk (Carcinogens) ernului nr. 1.218/ 33/2006	nostima (NN nical Agents) Regulations	1/2021) Regulations (2001-2019)	
IRL ROU GBR	Éire România United Kingdom	na radu, gr Decreto Le 2020 Code (2001-2015 Hotărârea modificarea EH40/2005	aničnim vrijedr gislativo 9 Apri of Practice for 5) and the Safe nr. 53/2021 pe a și completare 5 Workplace ex	nostima izložen ile 2008, n.81 the Safety, He ety, Health and ntru modificare a hotărârii guve posure limits (F	osti i biološkim alth and Welfa Welfare at Wo a hotărârii guv ernului nr. 1.09 Fourth Edition 2	n graničnim vrijed are at Work (Cher rk (Carcinogens) ernului nr. 1.218/ 93/2006 2020)	nostima (NN nical Agents) Regulations 2006, precurr	1/2021) Regulations (2001-2019) n și pentru	
IRL ROU GBR	Éire România	na radu, gr Decreto Le 2020 Code (2001-2015 Hotărârea modificarea EH40/2005 Directive (E	aničnim vrijedr gislativo 9 Apri of Practice for 5) and the Safe nr. 53/2021 pel a și completare 5 Workplace ex EU) 2022/431;	nostima izložen ile 2008, n.81 the Safety, He ety, Health and ntru modificare a hotărârii guve posure limits (F Directive (EU) 2	osti i biološkim alth and Welfa Welfare at Wo a hotărârii guv ernului nr. 1.09 Fourth Edition 2 2019/1831; Dir	n graničnim vrijed are at Work (Cher rk (Carcinogens) ernului nr. 1.218/ 93/2006 2020) rective (EU) 2019	nostima (NN nical Agents) Regulations 2006, precun /130; Directiv	1/2021) Regulations (2001-2019) n și pentru re (EU)	
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IRL ROU GBR	Éire România United Kingdom	na radu, gr Decreto Le 2020 Code (2001-2015 Hotărârea modificarea EH40/2005 Directive (E 2019/983; I 2006/15/E0	aničnim vrijedr gislativo 9 Apri of Practice for 5) and the Safe nr. 53/2021 pel a și completare 5 Workplace ex EU) 2022/431; Directive (EU) C; Directive 200	nostima izložen ile 2008, n.81 the Safety, He ety, Health and ntru modificare a hotărârii guve posure limits (F Directive (EU) 2 2017/2398; Dire	osti i biološkim alth and Welfa Welfare at Wo a hotărârii guv ernului nr. 1.09 Fourth Edition 2 2019/1831; Dir ective (EU) 20	n graničnim vrijed are at Work (Cher rk (Carcinogens) ernului nr. 1.218/ 93/2006 2020) rective (EU) 2019	nostima (NN nical Agents) Regulations 2006, precun /130; Directiv 2009/161/EL	1/2021) Regulations (2001-2019) n și pentru re (EU) J; Directive	
IRL ROU GBR EU	Éire România United Kingdom OEL EU	na radu, gr Decreto Le 2020 Code (2001-2015 Hotărârea EH40/2005 Directive (E 2019/983; I 2006/15/EC 91/322/EE	aničnim vrijedr gislativo 9 Apri of Practice for 5) and the Safe nr. 53/2021 pel a și completare 5 Workplace ex EU) 2022/431; Directive (EU) C; Directive 200 C.	nostima izložen ile 2008, n.81 the Safety, He ety, Health and ntru modificare a hotărârii guve posure limits (F Directive (EU) 2 2017/2398; Dire	osti i biološkim alth and Welfa Welfare at Wo a hotărârii guv ernului nr. 1.09 Fourth Edition 2 2019/1831; Dir ective (EU) 20	n graničnim vrijed are at Work (Cher rk (Carcinogens) ernului nr. 1.218/ 03/2006 2020) rective (EU) 2019 17/164; Directive	nostima (NN nical Agents) Regulations 2006, precun /130; Directiv 2009/161/EL	1/2021) Regulations (2001-2019) n și pentru re (EU) J; Directive	
irl Rou GBR EU	Éire România United Kingdom	na radu, gr Decreto Le 2020 Code (2001-2015 Hotărârea modificarea EH40/2005 Directive (E 2019/983; I 2006/15/E0	aničnim vrijedr gislativo 9 Apri of Practice for 5) and the Safe nr. 53/2021 pel a și completare 5 Workplace ex EU) 2022/431; Directive (EU) C; Directive 200 C. 21	nostima izložen ile 2008, n.81 the Safety, He ety, Health and ntru modificare a hotărârii guve posure limits (F Directive (EU) 2 2017/2398; Dire 04/37/EC; Direc	osti i biološkim alth and Welfa Welfare at Wo a hotărârii guv ernului nr. 1.09 Fourth Edition 3 2019/1831; Dir ective (EU) 20 ctive 2000/39/E	n graničnim vrijed are at Work (Cher rk (Carcinogens) ernului nr. 1.218/ 03/2006 2020) rective (EU) 2019 17/164; Directive	nostima (NN nical Agents) Regulations 2006, precun /130; Directiv 2009/161/EL	1/2021) Regulations (2001-2019) n și pentru re (EU) J; Directive	
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IRL ROU GBR EU Predicted no-effect of Normal value in fr Normal value in fr Normal value for Normal value for Normal value for Normal value for Health - Derived no-effect of Route of exposur Inhalation	Éire România United Kingdom OEL EU TLV-ACGIH concentration - Pt resh water fresh water sed water, intermitter STP microorganis the terrestrial cor effect level - DNE Effects on e Acute local	na radu, gr Decreto Le 2020 Code (2001-2015 Hotărârea a modificarea EH40/2005 Directive (E 2019/983; 2006/15/EC 91/322/EEC ACGIH 202 NEC	aničnim vrijedr gislativo 9 Apri of Practice for 5) and the Safe nr. 53/2021 per a și completare 5 Workplace ex EU) 2022/431; Directive (EU) 2; Directive 200 C. 21 POTASSI	nostima izložen- ile 2008, n.81 the Safety, He ety, Health and ntru modificarea a hotărârii guve posure limits (F Directive (EU) 2 2017/2398; Dire 04/37/EC; Direc UM DISULFAT	osti i biološkim alth and Welfa Welfare at Wo a hotărârii guve roului nr. 1.09 Fourth Edition 2 2019/1831; Dir ective (EU) 20 tive 2000/39/E E E E E E E ffects on v Acute local	n graničnim vrijed are at Work (Cher rk (Carcinogens) ernului nr. 1.218/ 03/2006 2020) rective (EU) 2019 17/164; Directive EC; Directive 98/2 0,68 0,068 2,5 0,25 6,8 800 0,092 workers Acute systemic	nostima (NN nical Agents) Regulations 2006, precum /130; Directiv 2009/161/EL 24/EC; Directi ////////////////////////////////////	1/2021) Regulations (2001-2019) n și pentru e (EU) J; Directive ve Chronic systemic 0,13	
IRL ROU GBR EU Predicted no-effect of Normal value in fr Normal value in fr Normal value for Normal value for Normal value for Normal value for Health - Derived no-effect of Route of exposur Inhalation	Éire România United Kingdom OEL EU TLV-ACGIH Concentration - Pt resh water narine water sed water, intermitter STP microorganis the terrestrial cor effect level - DNE Effects on e Acute local	na radu, gr Decreto Le 2020 Code (2001-2015 Hotărârea n modificarea EH40/2005 Directive (E 2019/983; I 2006/15/EC 91/322/EEC ACGIH 202 NEC	aničnim vrijedr gislativo 9 Apri of Practice for 5) and the Safe nr. 53/2021 per a și completare 5 Workplace ex EU) 2022/431; Directive (EU) 2; Directive 200 C. 21 POTASSI	nostima izložen- ile 2008, n.81 the Safety, He ety, Health and ntru modificarea a hotărârii guve posure limits (F Directive (EU) 2 2017/2398; Dire 04/37/EC; Direc UM DISULFAT	osti i biološkim alth and Welfa Welfare at Wo a hotărârii guve roului nr. 1.09 Fourth Edition 2 2019/1831; Dir ective (EU) 20 tive 2000/39/E E E E E E E ffects on v Acute local	n graničnim vrijed are at Work (Cher rk (Carcinogens) ernului nr. 1.218/ 03/2006 2020) rective (EU) 2019 17/164; Directive EC; Directive 98/2 0,68 0,068 2,5 0,25 6,8 800 0,092 workers Acute systemic	nostima (NN nical Agents) Regulations 2006, precum /130; Directiv 2009/161/EL 24/EC; Directi /130; Directiv 2009/161/EL 24/EC; Directi /130; Directiv 2009/161/EL 24/EC; Directi /130; Directiv /130; Directiv /130; Directiv /130; Directiv /130; Directiv /2009/161/EL 24/EC; Directiv /130; Directiv /2009/161/EL 24/EC; Directiv /130; Directiv /2009/161/EL 24/EC; Directiv /130; Directiv /2009/161/EL 24/EC; Directiv /130; Directiv /2009/161/EL 24/EC; Directiv /2009/161/EL 2009/161/	1/2021) Regulations (2001-2019) n și pentru e (EU) J; Directive ve Chronic systemic 0,13	
IRL ROU GBR EU Predicted no-effect of Normal value in fr Normal value in fr Normal value for Normal value for Normal value for Normal value of S Normal value in fr Normal value in fr Normal value in fr	Éire România United Kingdom OEL EU TLV-ACGIH concentration - Pt resh water narine water sed water, intermitter STP microorganis the terrestrial cor effect level - DNE Effects on e Acute local	na radu, gr Decreto Le 2020 Code (2001-2015 Hotărârea a modificarea EH40/2005 Directive (E 2019/983; I 2006/15/EC 91/322/EE ACGIH 202 NEC	aničnim vrijedr gislativo 9 Apri of Practice for 5) and the Safe nr. 53/2021 per a și completare 5 Workplace ex EU) 2022/431; Directive (EU) 2; Directive 200 C. 21 POTASSI	nostima izložen- ile 2008, n.81 the Safety, He ety, Health and ntru modificarea a hotărârii guve posure limits (F Directive (EU) 2 2017/2398; Dire 04/37/EC; Direc UM DISULFAT	osti i biološkim alth and Welfa Welfare at Wo a hotărârii guve roului nr. 1.09 Fourth Edition 2 2019/1831; Dir ective (EU) 20 tive 2000/39/E E E E E E E ffects on v Acute local	n graničnim vrijed are at Work (Cher rk (Carcinogens) ernului nr. 1.218/ 03/2006 2020) rective (EU) 2019 17/164; Directive EC; Directive 98/2 0,68 0,068 2,5 0,25 6,8 800 0,092 workers Acute systemic	nostima (NN nical Agents) Regulations 2006, precum /130; Directiv 2009/161/EL 24/EC; Directi 24/EC; Directi mg/l mg/kg/d mg/l mg/l mg/l mg/kg/d Chronic local 0,13 mg/m3	1/2021) Regulations (2001-2019) n și pentru e (EU) J; Directive ve Chronic systemic 0,13	
IRL ROU GBR EU Predicted no-effect of Normal value in fr Normal value in fr Normal value for Normal value for Normal value for Normal value of S Normal value in fr Normal value in fr Normal value in fr Normal value in fr Normal value in fr	Éire România United Kingdom OEL EU TLV-ACGIH concentration - Pt resh water fresh water sedin marine water sedin marine water sedin marine water sedin marine water sedin marine concentration - Pt reffect level - DNE Effects on e Acute local	na radu, gr Decreto Le 2020 Code (2001-2015 Hotărârea i modificarea EH40/2005 Directive (E 2019/983; I 2006/15/EC 91/322/EEC ACGIH 202 NEC NEC	aničnim vrijedr gislativo 9 Apri of Practice for 5) and the Safe nr. 53/2021 per a și completare 5 Workplace ex EU) 2022/431; Directive (EU) 2; Directive 200 C. 21 POTASSI	nostima izložen- ile 2008, n.81 the Safety, He ety, Health and ntru modificarea a hotărârii guve posure limits (F Directive (EU) 2 2017/2398; Dire 04/37/EC; Direc UM DISULFAT	osti i biološkim alth and Welfa Welfare at Wo a hotărârii guve roului nr. 1.09 Fourth Edition 2 2019/1831; Dir ective (EU) 20 tive 2000/39/E E E E E E E ffects on v Acute local	n graničnim vrijed are at Work (Cher rk (Carcinogens) ernului nr. 1.218/ 03/2006 2020) rective (EU) 2019 17/164; Directive EC; Directive 98/2 0,68 0,068 2,5 0,25 6,8 800 0,092 workers Acute systemic	nostima (NN nical Agents) Regulations 2006, precum /130; Directiv 2009/161/EL 24/EC; Directi 24/EC; Directi mg/l mg/l mg/l mg/l mg/l chronic local 0,13 mg/m3	1/2021) Regulations (2001-2019) n și pentru e (EU) J; Directive ve Chronic systemic 0,13	
IRL ROU GBR EU Predicted no-effect of Normal value in fr Normal value in fr Normal value for Normal value for Normal value for Normal value of S Normal value in fr Normal value in fr	Éire România United Kingdom OEL EU TLV-ACGIH concentration - Pt resh water marine water sedin marine water sedin marine water sedin marine water sedin marine water sedin marine concentration - Pt reffect level - DNE Effects on e Acute local	na radu, gr Decreto Le 2020 Code (2001-2015 Hotărârea i modificarea EH40/2005 Directive (E 2019/983; I 2006/15/EC 91/322/EEC ACGIH 202 NEC NEC NEC NEC NEC NEC	aničnim vrijedr gislativo 9 Apri of Practice for 5) and the Safe nr. 53/2021 per a și completare 5 Workplace ex EU) 2022/431; Directive (EU) 2; Directive 200 C. 21 POTASSI	nostima izložen- ile 2008, n.81 the Safety, He ety, Health and ntru modificarea a hotărârii guve posure limits (F Directive (EU) 2 2017/2398; Dire 04/37/EC; Direc UM DISULFAT	osti i biološkim alth and Welfa Welfare at Wo a hotărârii guve roului nr. 1.09 Fourth Edition 2 2019/1831; Dir ective (EU) 20 tive 2000/39/E E E E E E E ffects on v Acute local	n graničnim vrijed are at Work (Cher rk (Carcinogens) ernului nr. 1.218/ 33/2006 2020) rective (EU) 2019 17/164; Directive EC; Directive 98/2 0,68 0,068 2,5 0,25 6,8 800 0,092 workers Acute systemic	nostima (NN nical Agents) Regulations 2006, precum /130; Directiv 2009/161/EL 24/EC; Directi 24/EC; Directi mg/l mg/kg/d mg/l mg/l mg/kg/d Chronic local 0,13 mg/m3	1/2021) Regulations (2001-2019) n și pentru e (EU) J; Directive ve Chronic systemic 0,13	

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SECTION 8. Exposure controls/personal protection ... / >>

				BARIU	M SULFATE				
Threshold Limit Va									
Туре	Country	TWA/8h		STEL/15	min	Remarks / 0	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					Ba		
OELV	IRL	2				RESP			
TLV	ROU	0,5					Ва		
WEL	GBR	10				INHAL			
WEL	GBR	4				RESP			
OEL	EU	0,5					Ba		
TLV-ACGIH		5							
Predicted no-effect	t concentrati	on - PNEC							
Normal value ir	n fresh water						0,115	mg/l	
Normal value for	or fresh wate	r sediment					600	mg/kg/d	
Normal value o	f STP micro	organisms					62,2	mg/l	
Normal value for			ment				207	mg/kg/d	
lealth - Derived n								00	
	Effe	ects on cons	umers			Effects on wo	orkers		
Route of expos	ure Acu	ite Ac	cute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
•	loca	al sv	stemic	local	systemic	local	systemic	local	systemic
Inhalation		,		VND	10		,	10	10
					mg/m3			mg/m3	mg/m3
				ZINC POWD	ER STABILIZ	ED			
hreshold Limit Va		T14/4/01		0TEL // -			.		
Туре	Country	TWA/8h		STEL/15		Remarks / 0	Observations		
	DELL	mg/m3	ppm	mg/m3	ppm	5505			
MAK	DEU	0,1		0,4		RESP			
redicted no-effec									
Normal value ir	n fresh water						0,0206	mg/l	

Normal value in mari	ne water					0,0061	mg/l	
Normal value for fres	h water sedi	iment				117,8	mg/kg/d	
Normal value for mar	rine water se	ediment				56,5	mg/kg/d	
Normal value of STP	microorgan	isms				0,1	mg/l	
Normal value for the	terrestrial co	ompartment				35,6	mg/kg/d	
Health - Derived no-effe	ct level - DN	IEL / DMEL						
	Effects of	n consumers			Effects on w	vorkers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	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

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 ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

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).

mg/kg bw/d

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SECTION 8. Exposure con	trols/personal protecti	on/>>		
reactions. SKIN PROTECTION Wear category III profession body with soap and water a EYE PROTECTION Wear a hood visor or protect RESPIRATORY PROTECT Use a type P filtering facem (see standard EN 149). ENVIRONMENTAL EXPOS The emissions generated by compliance with environment	nal long-sleeved overalls ofter removing protective of ctive visor combined with TON hask, whose class (1, 2 or SURE CONTROLS y manufacturing processo ntal standards.	clothing. airtight goggles (see standard 3) and effective need, must b	ulation 2016/425 and s EN 166). e defined according to by ventilation equipme	standard EN ISO 20344). Wash the outcome of risk assessment ant, should be checked to ensure
SECTION 9. Physical and che	mical properties			
	moai properties			
9.1. Information on basic phys	ical and chemical proper	ties		
Properties Appearance Colour Odour Melting point / freezing poin Initial boiling point Flammability Lower explosive limit Upper explosive limit Flash point Auto-ignition temperature Decomposition temperature pH Kinematic viscosity Solubility Partition coefficient: n-octar Vapour pressure Density and/or relative dens Relative vapour density Particle characteristics	e nol/water	Value powder white odourless not available not applicable not available not available not available not available not available partially soluble in water not available not available	Concer	ation I:ASTM D1293-18 htration: 2.9 % rature: 25 °C
9.2. Other information				
9.2.1. Information with rega Information not available 9.2.2. Other safety characte		sses		
Total solids (250°C / 482°F Explosive properties)	100,00 % not applicable		
SECTION 10. Stability	/ and reactivity			
10.1. Reactivity				
There are no particular risks	s of reaction with other su	ubstances in normal conditions	of use.	
10.2. Chemical stability				
The product is stable in nor	mal conditions of use and	d storage.		
10.3. Possibility of hazardous	reactions			
The powders are potentially	explosive when mixed w	vith air.		
CITRIC ACID MONOHYDR Violent reactions possibl		agents, Bases, Reducing ager	nts.	@ EPV 11 3 0 - SDS 1004



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SECTION 10. Stability and reactivity ... / >>

FN

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

SECTION 11. Toxicological information

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

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 - mists / powders) of the mixture: ATE (Oral) of the mixture: ATE (Dermal) of the mixture:

Corrosive to the respiratory tract.

POTASSIUM DISULFATE LD50 (Oral): LC50 (Inhalation mists/powders):

CITRIC ACID MONOHYDRATE LD50 (Dermal): LD50 (Oral):

BARIUM SULFATE LD50 (Oral):

SKIN CORROSION / IRRITATION

> 5 mg/l Not classified (no significant component) Not classified (no significant component)

2140 mg/kg Rat 0,85 mg/l/4h Rat

> 2000 mg/kg 3000 mg/kg Rat

> 3000 mg/kg Mouse

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SECTION 11. Toxicologica	I information / >>		
Corrosive for the skin Classification according to t	he experimental Ph value		
SERIOUS EYE DAMAGE /	IRRITATION		
Causes serious eye damag	e		
RESPIRATORY OR SKIN S	SENSITISATION		
Does not meet the classifica	ation criteria for this hazard cl	ass	
GERM CELL MUTAGENIC	ITY		
Does not meet the classification	ation criteria for this hazard cl	ass	
CARCINOGENICITY			
Does not meet the classification	ation criteria for this hazard cl	ass	
REPRODUCTIVE TOXICIT	<u>Y</u>		
Does not meet the classification	ation criteria for this hazard cl	ass	
STOT - SINGLE EXPOSUR	<u>RE</u>		
Does not meet the classifica	ation criteria for this hazard cl	ass	
STOT - REPEATED EXPOS	SURE		
Does not meet the classifica	ation criteria for this hazard cl	ass	
ASPIRATION HAZARD			
Does not meet the classifica	ation criteria for this hazard cl	ass	
11.2. Information on other haz	ards		
Based on the available data disruptors with human healt		n substances listed in the main European lists o	of potential or suspected endocrine
SECTION 12. Ecologie	cal information		
This product is dangerous for	or the environment and the ac	quatic organisms. In the long term, it have nega	tive effects on aquatic environment.
12.1. Toxicity			
POTASSIUM DISULFATE LC50 - for Fish EC50 - for Crustacea		680 mg/l/96h Pimephales promelas 720 mg/l/48h Daphnia magna	
CITRIC ACID MONOHYDR LC50 - for Fish	ATE	440 mg/l/96h Leuciscus idus	
ZINC POWDER STABILIZE LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Pl EC10 for Algae / Aquatic Pl Chronic NOEC for Fish Chronic NOEC for Crustace	Plants ants	7,1 mg/l/96h Nothobranchius guentheri 0,416 mg/l/48h Ceriodaphnia dubia 0,015 mg/l/72h Pseudokirchneriella subcapita 0,084 mg/l/72h Nitzschia closterium, Diatom, 0,25 mg/l Salmo trutta 0,05 mg/l Daphnia magna	
12.2. Persistence and degrada	ability		
CITRIC ACID MONOHYDR Solubility in water Rapidly degradable	ATE	> 10000 mg/l	

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SECTION 12. Ecological in	nformation / >>		
BARIUM SULFATE Solubility in water Degradability: information r	not available	0,1 - 100 mg/l	
ZINC POWDER STABILIZI Solubility in water Degradability: information r		0,1 - 100 mg/l	
12.3. Bioaccumulative potentia	al		
CITRIC ACID MONOHYDF Partition coefficient: n-octar BCF		-1,64 Log Kow 3,2	
12.4. Mobility in soil			
Information not available			
12.5. Results of PBT and vPv	B assessment		
On the basis of available da	ata, the product does not cont	ain any PBT or vPvB in percentage ≥ than 0,1%.	
12.6. Endocrine disrupting pro	operties		
CITRIC ACID MONOHYDF Harmful effect due to pH sh	RATE hift. Discharge into the environ	ment must be avoided.	
	a, the product does not contain tal effects under evaluation.	n substances listed in the main European lists of	potential or suspected endocrine
12.7. Other adverse effects			
Information not available			
SECTION 13. Dispos	al considerations		
13.1. Waste treatment method	ds		
should be evaluated accord Disposal must be performe Waste transportation may to CONTAMINATED PACKAG	ding to applicable regulations. ed through an authorised waste be subject to ADR restrictions. GING	dered special hazardous waste. The hazard level e management firm, in compliance with national a of in compliance with national waste managemen	nd local regulations.
SECTION 14. Transp	ort information		
14.1. UN number or ID numbe	ər		
ADR / RID, IMDG, IATA:	2923		
14.2. UN proper shipping nam	ıe		
IMDG: COF	RROSIVE SOLID, TOXIC, N.C	D.S. (Potassium Disulfate mixture) D.S. (Potassium Disulfate mixture) D.S. (Potassium Disulfate mixture)	

MT5009-0 - Nitrogen Reagent With device over the test of the second over the test over test over test over test over the test over the test over test o	(m) milwau			Electronics Kft.	Revision nr.5 Dated 08/03/2023 Printed on 08/03/2023 Page n. 10 / 12
14.3. Transport hazard class(e) ADR / RID: Class: 8 Label: 8 (6.1) MDG: Class: 8 Label: 8 (6.1) IATA: Class: 8 Label: 8 (6.1) IATA: Class: 8 Label: 8 (6.1) ADR / RID, MOD, MATA: III ADR / RID: NO MDR / RID: NO MDR / RID: NO MDR / RID: NO MDR: Pass: MITA: Pass: MMR: Pass: MMR: Pass: More manyort in bulk according to IMO instruments Information not relevant Immed outstance or mixture Seveso Category - Directive 2012/18/EU: In2 Redirection: relevant Passion on otherwise product or contaline subletance previnors Stob		INCE	MT5009-0 -	Nitrogen Reagent	Page n. 10 / 12 Replaced revision:4 (Dated 15/11/2022)
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Milwaukee Electronics Kft.

MT5009-0 - Nitrogen Reagent

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SECTION 16. Other information ... / >>

- 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) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
- 22. Delegated Regulation (UE) 2022/692 (XVIII 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: 03 / 08 / 09 / 11 / 12.