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Replaced revision:2 (Dated 10/10/2022)

Safety Data Sheet

According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

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

1.1. Product identifier

Product name CYTREAT® 304

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

Intended use Additive for paper mill

Identified Uses Industrial Professional Consumer
Additive for paper mill
Uses Advised Against

Industrial Professional Consumer
- -

Any use not included among those recommended

1.3. Details of the supplier of the safety data sheet

Name N.C.R. BIOCHEMICAL S.p.A.

Full address Via dei Carpentieri, 8-Zona Industriale il Prato

District and Country 40050 Castello d'Argile (BO)

Italia

Tel. +39 051 6869611 Lun-Ven 8.30-13.00/14.00-16.30

Fax +39 051 6869617

e-mail address of the competent person

responsible for the Safety Data Sheet regulatory@ncr-biochemical.com

1.4. Emergency telephone number

For urgent inquiries refer to Italy:

CAV Ospedale Niguarda Ca' Granda - Milano 02 66101029

CAV Azienda Ospedaliera Papa Giovanni XXII - Bergamo 800 883300 CAV Centro Nazionale di Informazione Tossicologica - Pavia 0382 24444

CAV Az. Osp. Careggi - Firenze 055 7947819 CAV Policlinico Gemelli - Roma 06 3054343 CAV Policlinico Umberto I - Roma 06 49978000

CAV Osp. Pediatrico Bambino Gesù - Roma 06 68593726

CAV Az. Osp. Cardarelli - Napoli 081 7472870 CAV Az. Osp. Univ. Foggia - Foggia 800183459

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 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:

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: --

Hazard statements:

H412 Harmful to aquatic life with long lasting effects.

EUH208 Contains: Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and



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SECTION 2. Hazards identification .../>>

2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)

May produce an allergic reaction.

Precautionary statements:

P273 Avoid release to the environment.

2.3. Other hazards

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

The product does not contain substances with endocrine disrupting properties in concentration ≥ 0.1%.

SECTION 3. Composition/information on ingredients

3.1. Substances

Information not relevant

3.2. Mixtures

Contains:

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

Polyamide amine

CAS $5 \le x < 10$ Aquatic Chronic 2 H411

EC INDEX

REACH Reg. Polymer

Methanol

CAS 67-56-1 $0 \le x < 0.1$ Flam. Liq. 2 H225, Acute Tox. 3 H301, Acute Tox. 3 H311, Acute Tox. 3 H331,

STOT SE 1 H370

EC 200-659-6 STOT SE 2 H371: ≥ 3%

INDEX 603-001-00-X STA Oral: 100 mg/kg, STA Dermal: 300 mg/kg, STA Inhalation vapours: 3

mg/l

REACH Reg. 01-2119433307-44-XXXX

613-167-00-5

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6]

(3:1)

INDEX

CAS 55965-84-9 0 ≤ x < 0,0015 Acute Tox. 2 H310, Acute Tox. 2 H330, Acute Tox. 3 H301, Skin Corr. 1C

H314, Eye Dam. 1 H318, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=100,

Aquatic Chronic 1 H410 M=100, EUH071

EC 911-418-6 Skin Corr. 1C H314: ≥ 0,6%, Skin Irrit. 2 H315: ≥ 0,06%, Skin Sens. 1A H317:

 \geq 0,0015%, Eye Dam. 1 H318: \geq 0,6%, Eye Irrit. 2 H319: \geq 0,06%

STA Oral: 100 mg/kg, STA Dermal: 50,001 mg/kg, LC50 Inhalation

mists/powders: 0,33 mg/l/4h

REACH Reg. EXEMPTED - Art. 15 (2) of REACH regulation

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 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.



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

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.

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

Block the leakage if there is no hazard.

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 into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point

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.

Methanol

Always consider that the substance is classified as flammable.

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.



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

Storage class TRGS 510 (Germany): 12

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Dogulaton	Deferences
Requiatory	References:

BGR	България	НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. ЗА ЗАЩИТА НА РАБОТЕЩИТЕ ОТ РИСКОВЕ, СВЪРЗАНИ С ЕКСПОЗИЦИЯ НА ХИМИЧНИ АГЕНТИ ПРИ РАБОТА (изм. ДВ. бр.5 от 17
		Януари 2020г.)
CZE	Česká Republika	Nařízení vlády č. 41/2020 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů
DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
DNK	Danmark	Bekendtgørelse om grænseværdier for stoffer og materialer - BEK nr 1458 af 13/12/2019
ESP		Límites de exposición profesional para agentes químicos en España 2021
	España	
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
FIN	Suomi	HTP-VÄRDEN 2020. Koncentrationer som befunnits skadliga. SOCIAL - OCH HÄLSOVÅRDSMINISTERIETS PUBLIKATIONER 2020:25
GRC	Ελλάδα	Π.Δ. 26/2020 (ΦΕΚ 50/Α` 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των οδηγιών 2017/2398/ΕΕ, 2019/130/ΕΕ και 2019/983/ΕΕ «για την τροποποίηση της οδηγίας 2004/37/ΕΚ "σχετικά με την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με
HUN	Magyarország	την έκθεση σε καρκινογόνους ή μεταλλαξιγόνους παράγοντες κατά την εργασία"» Az innovációért és technológiáért felelős miniszter 5/2020. (II. 6.) ITM rendelete a kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
LID) (I Image As Is a	,
HRV	Hrvatska	Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnimkemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NOR	Norge	Forskrift om endring i forskrift om tiltaksverdier og grenseverdier for fysiske og kjemiske faktorer i
	Ü	arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer (forskrift om tiltaks- og grenseverdier), 21. august 2018 nr. 1255
NLD	Nederland	Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit
POL	Polska	Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy
SWE	Sverige	Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska
OVVL	Overige	gränsvärden (AFS 2018:1)
SVK	Slovensko	NARIADENIE VLÁDY Slovenskej republiky z 12. augusta 2020, ktorým sa mení a dopĺňa nariadenie vlády Slovenskej republiky č. 356/2006 Z. z. o ochrane zdravia zamestnancov pred rizikami súvisiacimi s expozíciou karcinogénnym a mutagénnym faktorom pri práci v znení
		neskorších predpisov
TUR	Türkiye	Kimyasal Maddelerle Çalışmalarda Sağlık ve Güvenlik Önlemleri Hakkında Yönetmelik 12.08.2013 / 28733
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
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
	TI \ / A C C !! !	2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2021



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SECTION 8. Exposure controls/personal protection

Methanol **Threshold Limit Value** Type Country TWA/8h STEL/15min Remarks / Observations mg/m3 mg/m3 ppm **BGR** TLV 50 SKIN 250 TLV CZE 1000 SKIN 200 800 AGW DEU 270 1080 SKIN MAK DEU 270 200 1080 800 SKIN TLV DNK 260 200 ESP SKIN VI A 333 250 VLEP FRA 260 200 1300 1000 SKIN HTP FIN 200 330 250 SKIN 270 TLV **GRC** 260 200 325 250 HUN 260 ΑK GVI/KGVI 200 HRV 260 SKIN VI FP ITA 260 200 SKIN TLV NOR 130 100 SKIN TGG NLD 133 100 SKIN NDS/NDSCh POL 100 300 SWE 200 SKIN NGV/KGV 250 350 250 **NPEL** SVK 260 200 SKIN **FSD** TUR 260 200 WEL **GBR** 266 200 333 250 SKIN OEL EU 260 200 SKIN TLV-ACGIH 260 200 328 250 Cute, IBE Predicted no-effect concentration - PNEC Normal value in fresh water 20,8 mg/l 2.08 Normal value in marine water mg/l 77 mg/kg/d Normal value for fresh water sediment 7,7 Normal value for marine water sediment mg/kg/d Normal value for water, intermittent release 1,54 mg/l Normal value of STP microorganisms 100 mg/l Normal value for the food chain (secondary poisoning) VND Normal value for the terrestrial compartment 100 mg/kg/d Normal value for the atmosphere VND

Health - Derived no-effect level - DNEL / DMEL									
	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	
Oral		8		8					
		mg/kg bw/d		mg/kg bw/d					
Inhalation	50	50	50	50	260	260	260	260	
	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	
Skin	VND	8	VND	8	VND	40	VND	40	
		mg/kg bw/d		mg/kg bw/d		mg/kg		mg/kg	
						bw/d		bw/d	

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC

no. 220-239-6] (3:1)

Threshold Limit Value							
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
AGW	DEU	0,2		0,4		INHAL	

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.

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.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends



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SECTION 8. Exposure controls/personal protection

on the duration and type of use.

SKIN PROTECTION

Wear category I 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.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529. 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		liquid	
Colour		light yellow	
Odour		Not available	
Odour threshold		Not determined	
Melting point / freezing point		Not determined	
Initial boiling point	>	100 °C	
Flammability		not flammable	
Lower explosive limit		Not applicable	
Upper explosive limit		Not applicable	
Flash point	>	60 °C	Method:ASTM D93
Auto-ignition temperature		Not determined	
Decomposition temperature		Not determined	
pH .		6,5 - 8,5	Method:ITL 70
•		•	Temperature: 25 °C
Kinematic viscosity		Not determined	•
Solubility		soluble	Method:ITL 73
Partition coefficient: n-octanol/water		Not determined	
Vapour pressure		Not determined	
Density and/or relative density		1,05 ± 0,05 g/ml	Method:ITL 15 B
,		,	Temperature: 20 °C
Relative vapour density		Not determined	,
Particle characteristics		Not applicable	

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

Evaporation rate Not determined

Explosive properties not applicable because it does not contain any explosives

functional groups

Oxidising properties not applicable because it does

not contain any oxidizing functional groups



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SECTION 10. Stability and reactivity

10.1. Reactivity

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

Methano

Avoid exposure to: ignition sources, sources of heat, electrostatic discharges, overheated surfaces, naked flames, high temperatures.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

Methanol

Avoid exposure to: high temperatures,naked flames,ignition sources,sources of heat,electrostatic discharges,overheated surfaces.

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1) Avoid exposure to: high temperatures,heat,light,UV rays.

10.5. Incompatible materials

Information not available

10.6. Hazardous decomposition products

Methanol

When heated to decomposition releases: carbon dioxide, carbon monoxide.

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1) In decomposition develops: sulphur oxides, nitric oxide, carbon dioxide, carbon monoxide, metal oxides.

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

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

Methanol

Unless otherwise specified in the following paragraphs, for the involved substance toxicological data in the following list are considered not available: acute toxicity, skin corrosion/irritation, serious eye damage/irritation, respiratory or skin sensitisation, germ cell mutagenicity, carcinogenicity, reproductive toxicity, STOT - single exposure, STOT - repeated exposure, aspiration hazard.

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:

ATE (Oral) of the mixture:

Not classified (no significant component) Not classified (no significant component)



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SECTION 11. Toxicological information/>>

ATE (Dermal) of the mixture: Not classified (no significant component)

Methanol

LD50 (Dermal): 17100 mg/kg Rabbit, review article or handbook, reliability 4 STA (Dermal): 300 mg/kg estimate from table 3.1.2 of Annex I of the CLP

(figure used for calculation of the acute toxicity estimate of the mixture) 1187 mg/kg Rat, study performed according to internal company standards,

LD50 (Oral): reliability 2

at the concentration of 15%

> 115,9 mg/l/4h Rat, Study performed according to internal company standards,

LC50 (Inhalation vapours): reliability 2

at the concentration of 99,8%

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6]

(3:1)

LC50 (Inhalation mists/powders): 0,33 mg/l/4h Rat, dust/mist

at the concentration of 14%

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

Methanol

No signs of irritation after exposure. The substance is not irritating to the skin.

The test was performed on rabbits according to standard methods accepted, reliability 2.

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

Methanol

No signs of irritation after exposure. The substance is not irritating to the eyes.

The test was performed on rabbits according to standard methods accepted, reliability 2.

RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction.

Contains:

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)

Respiratory sensitization

Information not available

Skin sensitization

Methanol

Signs of irritation after 1 hour exposure, completely reversible after 8 days. The substance is not sensitizing to skin. Based on available data, the classification criteria are not met. The test was performed on guinea pig by equivalent test or similar to OECD Guideline 406, reliability 2.

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

Methanol

Based on available data, the classification criteria are not met. The tests performed are equivalent or similar to OECD Guideline 471 and 474, reliability 2.

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)

In vitro assays did not show mutagenic effects. In vivo assays did not show mutagenic effects.

CARCINOGENICITY

Does not meet the classification criteria for this hazard class



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SECTION 11. Toxicological information .../>

Methanol

Based on available data, the classification criteria are not met. The tests performed are equivalent or similar to OECD Guideline 453, reliability 2.

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)

It did not cause tumors in tested animals.

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

Adverse effects on sexual function and fertility

Methanol

No toxicity to the maternal and prenatal development, no teratogenicity at any dose level. Tested up to 1000 mg / kg bw / day. Based on available data, the classification criteria are not met. The tests performed are equivalent or similar to OECD Guideline 414, reliability 1.

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)

In studies on animals it does not interfere with reproduction.

Adverse effects on development of the offspring

Methanol

Based on available data, the classification criteria are not met. The tests performed are equivalent or similar to OECD Guideline 416, reliability 2.

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)

It has not caused birth defects or other effects in the fetus even at doses that have caused toxic effects on the mother.

Effects on or via lactation

Information not available

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)

The evaluation of available data suggests that this material is not a toxic substance STOT-SE.

Target organs

Information not available

Route of exposure

Information not available

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)

Excessive exposure may cause irritation of the upper respiratory tract (nose and throat).

Target organs

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)

Nose and throat.

Route of exposure



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SECTION 11. Toxicological information .../>>

Information not available

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)

Aspiration into the lungs can occur during ingestion or vomiting, causing damage to the tissues or lungs themselves.

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

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

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)

LC50 - for Fish 0,19 mg/l/96h Oncorrhynchus mykiss, flow-through, according to OECD Guideline 203 or

equivalent

EC50 - for Crustacea 0,16 mg/l/48h Daphnia magna, flow-through, according to OECD Guideline 202 or

equivalent

EC50 - for Algae / Aquatic Plants 0,027 mg/l/72h Pseudokirchneriella subcapitata, according to OECD Guideline 201 or

equivalent

Chronic NOEC for Fish 0,05 mg/l Oncorhynchus mykiss, 14d
Chronic NOEC for Crustacea 0,1 mg/l Daphnia magna, flow-through, 21d

Chronic NOEC for Algae / Aquatic Plants 0,0014 mg/l Skeletonema costatum, static, 72h, growth rate

Polyamide amine

LC50 - for Fish

3,16 mg/l/96h Branchydanio rerio, OECD 203
EC50 - for Crustacea

> 25 mg/l/48h Daphnia magna, OECD 202
EC50 - for Algae / Aquatic Plants

2,8 mg/l/72h Scenedesmus

Methanol

LC50 - for Fish 15400 mg/l/96h Lepomis macrochirus, according to EPA-660/3-75-009, 1975, reliability 2

EC50 - for Crustacea 18260 mg/l/96h Daphnia magna, according to OECD Guideline 202, reliability 2
EC50 - for Algae / Aquatic Plants 22000 mg/l/72h Pseudokirchneriella subcapitata, according to OECD Guideline 201,

reliability2

Chronic NOEC for Fish 446,7 mg/l Pimephales promelas, QSAR, Calculation performed with ECOSAR,

reliability 2

Chronic NOEC for Crustacea 208 mg/l Daphnia magna, 21Dd, OECD QSAR Toolbox, reliability 2

12.2. Persistence and degradability

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1) Entirely degradable 50%, 10d OECD Test, but considered rapidly degradable. photodegradation 0,38-1,3d

Polyamide amine

NOT rapidly degradable <10%, Closed bottle / OECD TG 301 D

Methanol

Solubility in water > 1000 g/l @ 20°C

Rapidly degradable 1067 mgO2/g substance, Bibliographic source: Vom Wasser 47: 241-265, reliability2

12.3. Bioaccumulative potential

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1) Partition coefficient: n-octanol/water 0,401

Methanol

Partition coefficient: n-octanol/water -0,77 Bibliographic source: Food Chem. Toxicol.; EN; 38; 7; 2000, reliability 2

BCF < 10 Leuciscus idus melanotus, 72h, Bibliographic source:Chemosphere 14(10):

1589-1616, reliability 2





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SECTION 12. Ecological information .../>

12.4. Mobility in soil

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1) Partition coefficient: soil/water 28 estimated

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. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. Other adverse effects

Information not available

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.

CONTAMINATED PACKAGING

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

SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number or ID number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information

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

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Seveso Category - Directive 2012/18/EU:

None

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

Product

3 - 40

Point
Contained substance

Point 75

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

Not applicable

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 Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Information not available

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:

Flam. Liq. 2 Flammable liquid, category 2
Acute Tox. 2 Acute toxicity, category 2
Acute Tox. 3 Acute toxicity, category 3

STOT SE 1 Specific target organ toxicity - single exposure, category 1

Skin Corr. 1CSkin corrosion, category 1CSkin Sens. 1ASkin sensitization, category 1A

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

H225 Highly flammable liquid and vapour.

H310 Fatal in contact with skin.
H330 Fatal if inhaled.
H301 Toxic if swallowed.

H370 Causes damage to organs.

H314 Causes severe skin burns and eye damage.H317 May cause an allergic skin reaction.

H400 Very 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
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level

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- 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: 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
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 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: Time-weighted average exposure limit
- TWA STEL: Short-term 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) 2020/878 (II Annex of REACH Regulation)
- 4. Regulation (EC) 790/2009 (I Atp. CLP) 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) 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)
- 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.





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.../>> **SECTION 16. Other information**

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: 09 / 15.