In acc. with Commission Regulation (EU) no. 453/2010 of 20 May 2010



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SECTION 1: Identification of the mixture and the company

1.1. Product identifier

Trade name: Copper sulphate technical

IUPAC name: Copper(II) sulphate(VI) pentahydrate

UN No.: 3077 **CAS No**.: 7758-99-8

Index number: 029-004-00-0

REACH registration No.: 01-2119520566-40-XXXX

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

Identified uses: for production of: absorbents, ceramics, coatings, inks, cosmetics, fertilizers, glass, lubricants and greases, putties, fillers, construction chemicals, polishes and waxes, other compounds and fine chemicals, rubber and plastics, washing and cleaning products, catalysts, textile and leather dyes, adhesives, galvanic, chemical reagents, mineral flotation, raw material for non-ferrous smelting, non-metal surface treatment, pigments, processing aids, photochemistry, water treatment.

Uses advised against: Product mustn't be used for biocidal purposes.

1.3. Distrubutor:

Chem Trade Center Sp. z o. o. Sp. k. Łęczyńska str. 50a 20-309 Lublin, Poland Tel. 48 441 37 73

1.4. Emergency telephone

Emergency: 112 Fire department: 998

SECTION 2: Hazards identification

2.1. Classification of the substance

Classification according to Regulation No. 1272/2008 (CLP):

Carc. 1A; H350 – May cause cancer;

Repr. 1B; H360D - May damage the unborn child;

Acute tox. 4; H302 - Harmful if swallowed;

Eye Damage 1; H318 – Causes serious eye damage;

Skin Sens 1; H317 – May cause an allergic skin reaction;

STOT RE 2; H373 – May cause damage to organs through prolonged or repeated exposure;

Aquatic acute 1; H400 – Very toxic to aquatic life;

Aquatic chronic 1; H410 – Very toxic to aquatic life with long lasting effects.

Classification according to Directive 67/548/EWG:

Carc. Cat. 1; R49 – May cause cancer by inhalation;

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Repr. Cat. 2; R61 – May cause harm to the unborn child;

Xn;R22 - Harmful if swallowed;

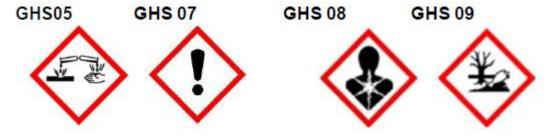
Xi; R41 – Risk of serious damage to eyes;

R43 – May cause sensitization by skin contact;

Xn; R48/20 – Danger of serious damage to health by prolonged exposure; Toxic by inhalation; N; R50/53 – Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2. Label elements

Signal Word: "WARNING"



Hazard Statements (H):

H350 –May cause cancer.

H360D - May damage the unborn child.

H302 - Harmful if swallowed.

H318 - Causes serious eye damage.

H317 – May cause an allergic skin reaction.

H373 – May cause damage to organs through prolonged or repeated exposure.

H410 – Very toxic to aquatic life with long lasting effects.

Precautionary Statements (P):

P201 – Obtain special instructions before use.

P308+313 – If exposed or concerned: Get medical advice/attention.

P501 – Dispose of contents/container to component manufacturer.

P273 – Avoid release to the environment.

P260 – Do not breathe dust.

2.3. Other hazards

May irritate skin.

Hazards not classified by current criteria: none.

SECTION 3: Composition / Information on ingredients

3.1 Substances

In accordance with Regulation Composition	No. 1272/2008 (Percentage		Hazards statements
CuSO4 * 5 H ₂ O		Acute Tox.4	H302
CAS Number: 7758-99-8 EC Number: 231-847-6	over 85%	Eye Damage 1 Aquatic Acute 1	H318 H400
Index Number: 029-004-00-0		Aquatic Chronic 1	H410

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NiSO4		Carc. 1A	H350i
CAS Number: 7786-81-4		Muta. 2	H341
	0.3 - 0.5%	Repr. 1B	H360d
EC Number: 232-104-9 Index Number: 028-009-00-5		STOTRE1	H372
		Acute tox 4	H302
		Skin Irrit2	H332
		Resp Sens 1	H315
		Skin Sens 1	H334
		Aquatic Acute 1	H317
		Aquatic Chronic 1	H400
		.	H410

SECTION 4: First Aid Measures

4.1. Description of first aid measures

Inhalation: First aid: Remove victim immediately from source of exposure. Provide rest in a pitting position. Get medical attention immediately.

Ingestion: First aid: Give plenty of lukewarm water and induce vomiting. Get medical attention immediately.

Eye contact: First aid: Promptly wash eyes with plenty of lukewarm water for 15 minutes. Make sure to remove any contact lenses from the eyes before rinsing. Avoid using pressure water due to risk of eye damage. Get medical attention immediately.

Skin contact: First aid: Remove contaminated clothing, wash the skin immediately with cold water. Get medical attention if the skin becomes irritated.

4.2. Most important acute and delay symptoms and effects of exposure

Possibility of increased blood pressure and abdominal pain (colic) usually preceded by constipation lasting for several days. Acute poisoning may result in liver, kidneys and central nervous system damage. Changes in peripheral nerves mainly of lower limbs, changes in central nervous system and erythronormoblastic anaemia (decrease of haemoglobin in the blood) may occur as a result of chronic poisoning.

4.3. Instructions for immediate medical attention and special treatment of the affected person

A physician is responsible for making decisions concerning treatment methods after detailed examination of patient's state of health.

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing media

Appropriate extinguishing media: non-combustible substance. In case of fire use fire-extinguishing media appropriate for surrounding materials.

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Unsuitable extinguishing media: unknown

5.2. Specific hazards arising from the substance or mixture

In high temperature, sulphur dioxide and/or sulphur trioxide as well as copper oxides may be formed.

5.3. Advice for fire-fighters

Depending on the burning material. In case of direct contact of the substance with fire use full protective clothing and self-contained breathing apparatus.

General recommendations: Inform others about the fire. Evacuate from the hazard location all people not involved in fire suppression. Inform the Smelter Senior Shift Supervisor.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate from the hazard location all people not involved in rescue operations. For personal protection, see section 8.

6.2. Environmental precautions.

In case of accident, do not release into the environment. Do not discharge into drains. Collect from the work area as soon as possible and place in proper containers for disposal. In case of releasing a large amount of material or environment contamination inform suitable authorities and emergency services.

6.3. Methods and materials for containment and cleaning up

Protect the work area to avoid dust generation. Eliminate any leakages (seal damaged container, place in protective container). Clean-up the substance into container and dispose as hazardous waste. In case of solutions collect spillage with absorbents (diatomaceous earth, sand or other absorbent which is not reactive with the substance) to a sealed container.

6.4. Reference to other sections

For personal protection measures, see section 8. For waste disposal see section 13.

SECTION 7: Handling and storage of substances

7.1. Precautions for safe handling

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Avoid formation of aerosols in the work area. Use only small amounts of the substance in properly labelled room with working ventilation. Protective means for spillage clean-up should be available in the work area. Containers with the substance should be labelled properly. When not in use, store tightly closed. Containers may contain residues which are hazardous. Do not eat, drink and smoke when handling the substance. Wash hands before eating when handling the product. Do not swallow. Rooms must be equipped with property working extraction ventilation. The work area must be equipped with safety shower (for body wash) and separate shower for eyes rinsing.

7.2. Conditions for safe storage, including any incompatibilities

Always store in tightly closed original container in a dry, cool and well-ventilated place equipped with electrical and ventilation system. Protect the container against damage. Only properly trained people should have access to suitably labelled container storing place.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure control / individual protection

8.1. Control Parameters:

Occupational exposure limit values to be followed:

Copper and cupric inorganic compounds – per Cu (TLV, TLV-STEL) – TLV: 0.2 mg/m3, TLV-STEL: not determined.

The derived no-effect levels (DNELs) for copper:

DNEL (skin, inhalation; prolonged exposure) – 0.041 mg/kg bw/day); DNEL (oral; short-term exposure) – 0.082 mg/kg bw/day);

Predicted no effect concentrations (PNECs) for copper:

PNEC (Surface waters) $-7.8 \mu g/I$ PNEC (Marine waters) $-5.2 \mu g/I$

PNEC (Fresh waters deposits) - 87 mg/kg of dry mass PNEC (Marine waters deposits) - 676 mg/kg of dry mass PNEC (Soil) - 65.5 mg/kg of dry mass

Additional advice:

Regulation of the Minister of Labour and Social Policy dated 29 November 2002 concerning maximum admissible concentrations and intensities of agents harmful to human health in the work environment (Journal of Laws, Dz.U.02.217.1833 as amended);

Regulation of the Minister of Health dated 30 December 2004 concerning occupational health and safety on protection of workers from risk related to exposure to chemical agents at work. (Journal of Laws, Dz.U.05.11.86 as amended);

Determination in air at the workplace:

PN-91/Z-04030.05 Total dust concentration using filter weight method in the range of 0.05-80.00 mg/m3;

PN-91/Z-04030.06 Respirable dust concentration using filter weight method in the range of 0.05-80.00 mg/ m3;

PN-Z-04008-7.2002. Air purity protection – Air sampling – Principles of air sampling at workplace and results interpretation;

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PN-EN 689:2002 Air in the workplace – Guidelines on evaluation of inhalation exposure to chemicals by comparing with admissible values and measurement strategy;

PN-EN 482:2006 Air in the workplace – General requirements on measurement procedures; PN ISO 4225/Ak:1999 Air quality – General issues – Terminology (national sheet).

8.2. Exposure control

Provide appropriate ventilation for production areas and workplaces. Avoid dust inhalation. During copper processing, use personal protective equipment adequate for existing hazards considering national and European legislation.

Eye and face protection: Use safety goggles.

Hand protection: required – protective gloves securing against chemical substances. Wear protective gloves for chemical substances compliant to EN 374. It is recommended to check resistance of the protective gloves against the chemical substances listed above, with the manufacturer.

NBR(Nitrile rubber) >0,11 mm.>480 minutes (permeation level: 6) Preventive skin protection is recommended (ointment/cream) Skin protection: Protective clothing.

Respiratory protection: Necessary in presence of dust – P-3 air-purifying dust mask.

Hygiene considerations: Change contaminated clothes immediately. Clean the contaminated clothes before reuse. Wash hands and face at the end of work with the substance. When using, do not eat and drink.

SECTION 9. Psychical and chemical properties

Solubility(ies):

9.1. Information on basic psychical and chemical properties

Appearance: blue solid
Odour: odourless
Odour threshold: not applicable

pH: approx.4 (50g/I H2O, 20°C)

Melting point/freezing point: 110°C Initial boiling point and boiling range: 150°C

Flash point:

Evaporation rate:

Flammability (solid, gas):

Upper/lower flammability or explosive limits:

Vapour pressure:

Vapour density:

Relative density:

not applicable
not applicable
not applicable
2,284 g/cm3 (25°C)
approx. 1100 kg /m3

- in water: 423 g/l (20°C), 2023 g/l (20°C)

- in inorganic solvents: low solubility in alcohols,

good solubility in glycerin

Partition coefficient: n-octanol/water:

Auto-ignition temperature:

Decomposition temperature:

Viscosity:

not applicable

not applicable

not applicable

not applicable

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Oxidising properties: not applicable

9.2. Other information

None

SECTION 10: Stability and reactivity

10.1. Reactivity

Low-reactive substance.

10.2. Chemical stability

Substance is stable under normal use and storage conditions.

10.3. Hazardous reactions

no data available

10.4. Conditions to avoid

Heat sources (high temperature).

10.5. Materials to avoid

Strong acids, aluminium, acetylene, nitromethane, hydrazine. Reactive with hydroxylamine. Copper sulphate solutions are acidic and produce hydrogen in contact with magnesium.

10.6. Hazardous decomposition products

Fire or heating may cause production of copper oxides and sulphur oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute Toxicity: harmful if swallowed.

Respiratory toxicity: based on available data, does not meet the criteria for classification.

Corrosive/irritating to skin: based on available data, does not meet the criteria for classification.

Serious eye damage/irritating to eyes: causes serious eye damage.

Allergic to skin and respiratory reaction: may cause an allergic skin reaction.

Germ cell mutagenicity: based on available data, does not meet the criteria for classification.

Carcinogenicity: may cause cancer.

Acute Toxicity: harmful if swallowed.

Reproductive toxicity: may damage fertility or the unborn child.

Toxic effect on target organs—repeated exposure: causes damage to organs through prolonged or repeated exposure.

Aspiration hazard: based on available data, does not meet the criteria for classification.

Lethal and toxic doses and concentrations:

LDL0 (p.o., human) 875 mg/kg

LD50 (i.p., mouse) 18 mg/kg

LD50 (p.o., rat) 300 mg/kg

LDL0 (s.c., mouse) 500 mg/kg

LD50 (s.c., rat) 43 mg/kg

LDL0 (i.v., mouse) 50 mg/kg

LD50 (unknown, rat) 630 mg/kg

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LDL0 (i.v., rabbit) 10 mg/kg

Lowest published lethal dose (LDL0) for human orally 50-857 mg/kg of bodyweight. Lowest published toxic dose (TDL0) for human orally 11-150 mg/kg of bodyweight. Kidneys damage and blood dyscrasia have been found.

11.2 Information on likely routes of exposure

Entry routes: respiratory, ingestion, skin.

Due to slow respiratory and ingestive absorption and low skin absorption only high doses cause acute poisonings. Prolonged absorption causes peripheral muscles weakness, anaemia and central

nervous system disorders. Accumulation in: bones, kidneys and other tissues

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

Detailed information concerning symptoms related to product properties and possible effects of exposure have been described in section 4.2.

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity (LC50/96h) fish ≤ 1 mg/l – very toxic to aquatic organisms. IC50/72h (medium inhibitory concentration) alga < 1 mg/l.

Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment. Do not release to waters, soil and sewerage system. Fungicidal. Toxic concentrations of cupric compounds in aquatic environment: Limit values for surface water quality indicators:

Copper:

0.05 mg/l indicator from the group of substances highly harmful for aquatic life which refers to good and higher than good ecological condition of uniform surface waters.

Sulphates:

Purity class I - < 150 mg SO4 /I; pH = $6.0 \div 8.5$; Purity class II - 250 mg SO4 /I; pH = $6.0 \div 9.5$; Permissible contamination of sewage released into waters and soil:

Cu - 0.5 mg/l, SO4/l - 500 mg/l

Threshold toxic concentration (CuSO4* H2O) fish:

Cyprinus carpio LC50 (96h) - 0.81 mg/l

Pimephales promelas LC50 (96h) – 0.45 mg/l

Threshold toxic concentration for:

crustaceans - Daphnia magna LC50 (48h) - 0.0098 mg/l

algae - Pseudokirchneriella subcapitata EC10 (72h) - 0.108 mg/l

12.2. Persistence and degradability

Not biodegradable in soil or water; may cause contamination of surface and ground waters.

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12.3. Bioaccumulation potential

Copper sulphate coefficient determined through tests is higher than 100 showing significant bioaccumulation properties.

12.4. Mobility in water and soil

Low mobility in soil and aquatic environment.

12.5. PBT & PvBc assessment results

Not applicable - inorganic substance.

12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste disposal methods

Do not empty to sewerage system. Prevent from contamination of surface and ground waters. Do not dispose together with municipal waste. Method of disposal should be discussed with local Environmental Protection Department.

Classification of wastes:

- Waste Catalogue (Journal of Laws, Dz. U.01.112.1206): 06 04 05 Wastes containing other heavy metals;
- OECD Green List of Wastes: GA 120 Copper wastes and scrap
- OECD Amber List of Wastes: AA 040 Copper ashes and residues Legal basis:

Waste Act dated 27.04.2001 (Journal of Laws, Dz. U.2010.185.1243 and Journal of Laws, Dz.U.2010.203.1351 as amended). Act dated 11.05.2001 relating to packing and waste packages (Journal of Laws, Dz. U. No. 63, item 638 as amended). Regulation of the Minister of Environment dated 27.09.2001 in the matter of packages catalogue (Journal of Laws, Dz. U. No. 112, item 1206 as amended). Regulation of the Minister of Economy dated 25 October 2005 on the detailed method for dealing with packaging waste (Journal of Laws, Dz. U. No. 219, item 1858 as amended).

SECTION 14: Transport information

General transport regulations should be used. Covered transport is recommended.

14.1.	UN-Number	

14.2. UN proper shipping name

14.3. Transport hazard class(es)

Warning label no. 9

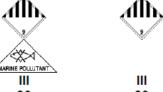
ADR/RID IMGD IATA
3077 3077 3077
ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
SOLID, N.O.S.
9 9 9

Secure packages against moving while shipping



Ш

90



14.4. Packaging group

14.5. Environmental hazards

14.6. Special precautions for users

14.7. Bulk transport in accordance with Annex II to MARPOL 73/78 and IBC Code

N/a

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SECTION 15: Regulatory information

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

Not regulated under the criteria set in Regulation (EC) No. 2037/2000 of the European Parliament and of the Council of 29 June 2000 on substances that deplete the ozone layer (Journal of Laws, Dz.U. L 244 from 29.9.2000 as amended) and Regulation (EC) No. 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC (Journal of Laws, Dz.U. L 158 of 30.4.2004 as amended). The substance is not subject to the criteria set in Regulation (EC) No. 689/2008 of the European

Parliament and of the Council of 17 June 2008 concerning the export and import of dangerous chemicals (Journal of Laws, Dz.U. L 204 of 31.7.2008 as amended).

Cupric compounds are not listed in annex X Decision No. 2455/2001 of the European Parliament and of the Council of 20 November 2001 establishing the list of priority substances in the field of water policy and amending Directive 2000/60/EC (Journal of Laws, Dz.U. L 331, 15/12/2001). Provisions of law:

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the registration, evaluation, authorisation and restriction of chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments; Environmental Protection Law dated 27 April 2001 (Journal of Laws, Dz.U.01.62.627 as amended); Act dated 25 February 2011 on the chemical substances and their mixtures (Journal of Laws, Dz. U. 2011.63.322 as amended); Act dated 14 December 2012 on wastes (Journal of Laws, Dz. U.2013.0.21 as amended); Regulation of the Minister of Environment dated on 27 September 2001 in the matter of packages catalogue (Journal of Laws, Dz.U.01.112.1206 as amended); Act dated 11 May 2001 relating to packing and waste packages (Journal of Laws, Dz.U.01.63.638 as amended); Act dated 19 August 2011 on transportation of hazardous substances (Journal of Laws, Dz.U.2011.227.1367 as amended); Regulation of the Minister for Economy dated 21 December 2005 in the matter of basic requirements for individual protection means (Journal of Laws, Dz.U.2005.259.2173 as amended); Regulation of the Minister of Health dated 2 February 2011 in the matter of tests and measurements on agents harmful for human health in work environment (Journal of Laws, Dz.U.11.166.2526 as amended); Regulation of the Minister of Economy dated 29 January 2013 in the matter of limitations in production, trade or use of hazardous or potentially dangerous substances and mixtures and placing on a market or putting into use products containing such substances and mixtures (Journal of Laws, Dz. U. of 2013 r. item 180 as amended); Regulation of the Minister of Environment dated 28 January 2009 amending the regulation on conditions to be fulfilled at the discharge of effluents to water or soil and on substances posing particular threat to aquatic environment (Journal of Laws, Dz. U. 2009.27.169 as amended).

15.2. Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance.

SECTION 16: Other information

Full version of Hazards Statements and Risk Phrases provided in sections 2 - 15: R38 – Irritating to skin;

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H302 - Harmful if swallowed

H315 - Causes skin irritation;

H319 – Causes serious eye irritation;

H341 – Suspected of causing genetic defects; H332 – Harmful if inhaled;

H334 – May cause allergy or asthma symptoms or breathing difficulties if inhaled; H350i – May cause cancer;

Explanations of abbreviations and acronyms used in the MSDS:

CAS Number – numerical identifier assigned by the Chemical Abstracts Service (CAS) to every chemical substance which allows for its further identification.

EC Number - identifier assigned to chemical substances in EINECS - European Inventory of Existing Chemical Substances or identifier assigned to chemical substances in ELINCS - European List of Notified Chemical Substances), or identifier in the index of chemical substances published in "Nolonger polymers" list.

Index Number – identification code stated in annex VI, part 3 of Regulation (EC) No. 1272/2008 on classification, labelling and packaging of substances and mixtures.

Registration Number – issued by the European Chemicals Agency (ECHA) after registration of the substance/component by the producer/importer in accordance with REACH Regulations.

LD50 – toxic substance dose expressed in the units of mg/kg body weigh needed to kill 50% of the of test subjects exposed.

LC50 – substance concentration in the air expressed in the units of mg/l that will kill 50% of the test subjects exposed over a specified time of inhalation.

EC10 – substance dose expressed in the units of mg/l causing a given pharmacological effect (e.g. growth inhibition) among 10% of the test subjects exposed over a specified time.

NOEC – highest concentration of a toxic substance which presents no adverse effect when used.

TLV – threshold limit value – level of a chemical substance to which a worker can be exposed on the basis of a 8h per day, 40h per week work schedule described in Labour Code for a working lifetime without adverse health effects on this worker and his/her progeny.

TLV -STEL – short-term exposure limit – average concentration level which should not cause any adverse effects on health if the exposure in the work environment is equal to or less than 15 minutes and occurs twice per shift in minimal time intervals of 1 hour.

DNEL – derived level with no effect on organisms.

PNEC – predicted concentration with no effect on environment.

Necessary trainings: on-site training related to safe using of substances with hazardous properties for human and adverse effects on environment.

Sources of information used to compile this material safety data sheet:

ESIS European Chemical Substance Information System;

The product described in the Safety Data Sheet should be stored and used in accordance with good industrial practices and an applicable provisions of the law.

The objective of the information provided in the Safety Data Sheet, based on the current state of knowledge, is to describe the product from the standpoint of legal regulations on safety, health and environmental protection. The information herein should not be understood as a warranty of properties.

The user is responsible for providing appropriate conditions for safe use of the product and shall bear full liability for consequences of improper use of this product.

Version: 1