



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

1.1 Product identifier:

Trade name: Copper Sulfate 10% (CuSO₄) in Phosphoric Acid 21% (H₃PO₄)

Article number: 600933 (Identipack BV)

CAS-number: 7758-98-7 + 7664-38-2

EINECS: 231-847-6 + 231-633-2

UFI: Not applicable.

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

Application of the substance / the mixture : Laboratory, Research or Fabricage.

1.3 Details of the supplier of the safety data sheet:

Downstreamuser

Identipack B.V.

Broekstraat 4

5721 CT Someren

Netherlands

Tel:(+31) (0)493 - 672277

Fax:(+31) (0)439 - 672268

E-mail : info@identipack.com

1.4 Emergency telephone number:

UK Tel: +44 151 951 3317 - Health and Safety Executive (HSE) Chemicals Regulation Directorate (24/7)

Ireland Tel: +353 1 8092566 - Beaumont Hospital - National Poisons Information Centre (24/7)

(EU Tel: 112)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:

Classification according to Regulation (EC) nr. 1272/2008:

Acute Tox. 4: H302 Skin Corr. 1B: H314

Eye Dam. 1: H318

Aquatic Acute 1: H400 Aquatic Chronic 1: H410

2.2 Label elements:

Labelling according to Regulation (EC) nr. 1272/2008:

The product is classified and labelled according to the CLP regulation.

Hazard pictograms:



GHS05

GHS07

GHS09

Signal word: Danger

Hazard-determining components of labelling:

Copper Sulfate 10% in Phosphoric Acid 21%

Hazard statements:

H302 Harmful if swallowed.

H314 Causes severe skin burns.

H318 Causes serious eye damage.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements:

P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313	If skin irritation occurs: Get medical advice/attention.

2.3 Other hazards:

Results of PBT and vPvB assessment:

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

Description: Mixture made by the following substances:

Dangerous components:		
CAS: 7758-98-7 EINECS: 231-847-6 Index: 029-004-00-0		Copper Sulfate (10%): Acute Tox. 4, H302; Skin Irrit. 2, H315; Aquatic Acute 1, H400; Eye Dam. 1, H318; Aquatic Chronic 1, H410;
CAS: 7664-38-2 EINECS: 231-633-2 Index: 015-011-00-6		Phosphoric Acid (21%) Skin Corr. 1B, H314

Additional details:

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures:

General information: Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation:

Supply fresh air; consult a doctor in case of complaints.

After skin contact:

If skin irritation continues, consult a doctor.

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing:

Call for medical help immediately. Do not induce vomiting.

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

No further relevant information available.

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

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media:

Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Use fire extinguishing methods suitable to surrounding conditions.

5.2 Special hazards arising from the substance or mixture:

Sulfur Oxides (SO_x).

5.3 Advice for firefighters:

Protective equipment:

Do not inhale gases in case of fire or combustion.

Additional information:

Keep receptacles cool with water spray.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Avoid formation of dust. Ensure adequate ventilation.
Use respiratory device against the effect of fumes.

6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.
Dilute with plenty of water after collecting the liquid. Do not allow to enter sewers/surface or ground water.

6.3 Methods and material for containment and cleaning up:

Collect the liquid with vacuum in a suitable container and absorb the remainder with a porous material (diatomite, acid binders, universal binders, etc.).
Dispose contaminated material as waste according to Section 13.

6.4 Reference to other sections:

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace.

7.2 Conditions for safe storage, including any incompatibilities:

Storage:

Requirements to be met by storerooms: Store in cool place.

Keep container tightly closed in a dry and well-ventilated place.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: None. Protect from frost.

7.3 Specific end use(s):

No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters:

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: No further relevant information available.

8.2 Exposure controls:

Personal protective equipment:

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Immediately remove all contaminated clothing.

Wash hands before breaks and at the end of work. Avoid contact with the skin.

Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Protection of hands: Protective rubber gloves.

Material of gloves: The glove material has to be impermeable and resistant to the product/the substance/the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Tightly sealed goggles.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Appearance:

Form:	Fluid.
Colour:	Colourless.
Odour:	Odourless.
Odour threshold:	Not determined.

pH-value: 4

Change in condition:

Melting point/freezing point:	0 °C.
Initial boiling point and boiling range:	100 °C.

Flash point: Not applicable.

Flammability (solid, gas): Product is not flammable.

Ignition temperature:

Decomposition temperature:	Not determined.
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.

Vapour pressure at 20 °C:	23 hPa.
Density at 20 °C:	1.09002 g/cm ³ .
Relative density:	Not determined.
Vapour density:	Not determined.
Solubility in / Miscibility with:	
Water:	Fully miscible.

Partition coefficient: (n-octanol/water):	Not determined.
Viscosity:	Not determined.

9.2 Other information: No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity: See 10.3

10.2 Chemical stability:

Thermal decomposition/conditions to be avoided: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions: Reacts with various metals.

10.4 Conditions to avoid: No further relevant information available.

10.5 Incompatible materials: Metals.

10.6 Hazardous decomposition products: In case of fire: Sulfur oxides (SO_x).

SECTION 11: Toxicological information

11.1 Information on toxicological effects:

Acute toxicity: -

Primary irritant effect:

Skin corrosion/irritation:

May cause skin irritation.

Serious eye damage/irritation:

Causes serious eye damage.

Ingestion:

It can be harmful if swallowed.

Inhalation:

May be harmful if inhaled.

Germ cell mutagenicity:

No further relevant information available.

Carcinogenicity:

No further relevant information available.

Reproductive toxicity:

No further relevant information available.

STOT-single exposure: No further relevant information available..

STOT-repeated exposure: No further relevant information available.

SECTION 12: Ecological information

12.1 Toxicity:

Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability: No further relevant information available.

12.3 Bioaccumulative potential: No further relevant information available.

12.4 Mobility in soil: No further relevant information available.

Ecotoxicological effects:

General notes: Water hazard class 3 (Self-assessment): extremely hazardous for waters.

Do not allow product to reach ground water, water course or sewer system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms.

12.5 Results of PBT- and vPvB-assessment:

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects: No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods:

Recommendation: Must not be disposed together with household garbage. Do not allow product to reach sewage system. Reutilise if possible or contact a waste processor for recycling or safe disposal.

Waste disposal key:

The European Union does not establish uniform rules for the disposal of chemical waste, which are special waste. Their treatment and elimination of the domestic legislation of each country. So in each case, you should contact the relevant authorities, or those companies legally authorized for elimination of waste.

Uncleaned packaging: The containers and packing materials contaminated with dangerous substances or preparations, have the same treatment products.

Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

14.1 UN-Number:

ADR, IMDG, IATA: UN3082

14.2 UN proper shipping name:

ADR, IMDG, IATA: 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID
(Copper Sulfate)

14.3 Transport hazard class(es):

ADR:



Class: 9 (M6) Miscellaneous dangerous substances and articles.
Label: 9
IMDG, IATA:



Class: 9 Miscellaneous dangerous substances and articles.
Label: 9

14.4 Packing group:
ADR, IMDG, IATA: III

14.5 Environmental hazards: Yes (copper sulfate)
Marine pollutant: Yes (Symbol: fish and tree)

14.6 Special precautions for user: Warning: Miscellaneous dangerous substances and articles.
Danger code (Kemler): 90
EMS-number: F-A, S-F
Stowage Category: A

14.7 Transport in bulk according to Annex II of:
MARPOL and the IBC-code: Not applicable.

Transport/Additional information:

ADR:

Limited quantities (LQ): 5L
Excepted quantities (EQ): Code E1
Maximum net quantity per inner packaging: 30ml
Maximum net quantity per outer packaging: 1000 ml

Transport category: 3
Tunnel restriction code: E

IMDG:

Limited quantities (LQ): 5L
Excepted quantities (EQ): Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

UN "Model Regulation": UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID (ZINC ACETATE), 9, III

SECTION 15: Regulatory information

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

Directive 2012/18/EU:

Named dangerous substances - ANNEX I: None of the ingredients are listed.

Information about limitation of use: -

Water hazard class: Water hazard class 3 (Self-assessment): extremely hazardous for water.

15.2 Chemical safety assessment: A chemical safety assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases:

H302	Harmful if swallowed.
H314	Causes severe skin burns.
H318	Causes serious eye damage.
H410	Very toxic to aquatic life with long lasting effects.

Abbreviations and acronyms:

ADR:	Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG:	International Maritime Code for Dangerous Goods
IATA:	International Air Transport Association
GHS:	Globally Harmonized System of Classification and Labelling of Chemicals
EINECS:	European Inventory of Existing Commercial Chemical Substances
CAS:	Chemical Abstracts Service (division of the American Chemical Society)
DNEL:	Derived No-Effect Level (REACH)
PNEC:	Predicted No-Effect Concentration (REACH)
LC50:	Lethal concentration, 50 percent
LD50:	Lethal dose, 50 percent
PBT:	Persistent, Bioaccumulative and Toxic
vPvB:	very Persistent and very Bioaccumulative
Acute Tox. 4:	Acute toxicity - Category 4
Skin Corr. 1B:	Skin corrosion/irritation - Category 1B
Eye Dam. 1:	Serious eye damage/eye irritation - Category 1
Aquatic Acute 1:	Hazardous to the aquatic environment - acute aquatic hazard - Category 1
Aquatic Chronic 1:	Hazardous to the aquatic environment - long-term aquatic hazard - Category 1

Sources:

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006, REACH, in the latest valid version.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008, CLP, in the latest valid version.

Globally Harmonized System, GHS

ADR2017