

**IDEAL WORK****PUROMETALLO-ATTIVATORE**

Revision nr. 2

Dated 18/02/2015

Printed on October 16, 2018

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Safety Data Sheet

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

1.1. Product identifier

Code: PUROMETALLO-ATTIVATORE
Product name

1.2. Relevant identified uses of the substance or mixture and uses advised against
Intended use Oxidizing solution

1.3 Details of the supplier of the safety data sheet

Company name IDEAL WORK SRL
Address Via Kennedy, 52
Place and country 31030 Vallà di Riese Pio X (TV)
Italy
tel. +39 0423 /4535
fax +39 0423 /748429

e-mail address for a competent person,
responsible for the safety data sheet

sicurezza@idealwork.it

1.4 Emergency telephone number

For information in an emergency

Poison center:
National Poisons Information Service (Birmingham
Unit) City Hospital
Dudley Rd Birmingham
Telephone: +44 121 507 4123
Fax: +44 121 507 55 88
Emergency telephone: 844 892 0111

SECTION 2. Hazards identification.

2.1. Substance or mixture classification.

The product is not classified as dangerous according to the provisions of Regulation (EC) 1272/2008 (CLP) (and subsequent amendments and adjustments). The product, however, containing hazardous substances in concentrations such as to be declared in section 3, requires a safety data sheet with adequate information, in accordance with Regulation (EC) 1907/2006 and subsequent amendments.

2.1.1. Regulation 1272/2008 (CLP) and subsequent amendments and adjustments.

Hazard classification and indications: -

2.1.2. Directives 67/548 / EEC and 1999/45 / EC and subsequent amendments and adjustments.

Danger symbols: -

R phrases: -

2.2. Elements of the label.

Hazard pictograms: -

Warnings: --

Indications of danger:

EUH210 Safety data sheet available on request.

Precautionary statements: -

2.3. Other dangers.

Information not available.

SECTION 3. Composition/information on ingredients.

3.1. Substances.

Information not applicable.



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3.2. Mixtures.

It contains:

Identification. **Conc.%. Classification 67/548 / EEC.**

AMMONIUM CHLORIDE

CAS. 12125-02-9 4 - 4.5 Xn R22, Xi R36
CE. 235-186-4
INDEX. 017-014-00-8

Classification 1272/2008 (CLP).

Acute Tox. 4 H302, Eye Irrit. 2 H319

TETRACLOROCUPRATO DIAMMONIUM DIHYDRATE

CAS. 10060-13-6 2 - 2.5 Xi R36 / 37/38
CE. -
INDEX. -

Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335

Note: Upper value of the excluded range.

The full text of the risk phrases (R) and hazard statements (H) is given in section 16 of the sheet.

T + = Very Toxic (T +), T = Toxic (T), Xn = Harmful (Xn), C = Corrosive (C), Xi = Irritating (Xi), O = Comburent (O), E = Explosive (E), F + = Extremely Flammable (F +), F = Easily Flammable (F), N = Dangerous for the Environment (N)

SECTION 4. First aid measures.

4.1. Description of first aid measures.

EYES: Remove any contact lenses. Wash immediately and abundantly with water for at least 15 minutes, opening the eyelids well. Consult a doctor if the problem persists.

SKIN: Remove contaminated clothing from behind. Wash immediately and abundantly with water. If irritation persists, consult a doctor. Wash the contaminated garments before reusing them.

INHALATION: Bring the subject to the open air. If breathing is difficult, call a doctor immediately.

INGESTION: Consult a doctor immediately. Induce vomiting only as directed by your doctor. Do not give anything by mouth if the subject is unconscious and if not authorized by the doctor.

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

For symptoms and effects due to the contained substances, see chap. 11.

4.3. Indication of the need to immediately consult a doctor and special treatments.

Information not available.

SECTION 5. Firefighting measures.

5.1. Fire fighting.

SUITABLE EXTINGUISHING MEANS

The means of extinction are the traditional ones: carbon dioxide, foam, dust and nebulized water. UNSUITABLE EXTINGUISHING MEDIA
No one 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. Recommendations for firefighters.

GENERAL INFORMATIONS

Cool the containers with jets of water to avoid the decomposition of the product and the development of substances potentially dangerous for health.

Always wear full fire protection equipment. Collect the extinguishing waters that must not be discharged into the drains. Dispose of contaminated water used for extinction and fire residue according to current regulations.

EQUIPMENT

Normal fire fighting clothing, such as open circuit compressed air breathing apparatus (EN 137), flame retardant (EN469), flame retardant gloves (EN 659) and fire brigade boots (HO A29 or A30).

SECTION 6. Accidental release measures.

6.1. Personal precautions, protective equipment and procedures in case of emergency.

Block the loss if there is no danger.

Wear appropriate protective equipment (including personal protective equipment referred to in Section 8 of the safety data sheet) to prevent contamination of skin, eyes and personal clothing. These indications are valid both for workers to work and for emergency interventions.

6.2. Environmental precautions.

Prevent the product from entering sewers, surface water or groundwater.



6.3. Methods and materials for containment and remediation.

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

Provide sufficient ventilation of the place affected by the leak. Check for possible incompatibilities for the container material in section 7. Disposal of contaminated material must be carried out in accordance with the provisions of point 13.

6.4. Reference to other sections.

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

SECTION 7. Handling and storage.

7.1. Precautions for Safe Handling.

Manipulate the product after having consulted all the other sections of this safety data sheet. Avoid dispersion of the product in the environment. Do not eat, drink or smoke during use. Remove contaminated clothing and protective equipment before accessing the areas where you eat.

7.2. Conditions for safe storage, including any incompatibilities.

Keep only in the original container. Store closed containers in a well-ventilated area away from direct sunlight. Keep containers away from incompatible materials, checking section 10.

7.3. Specific end uses.

Information not available.

SECTION 8. Exposure controls/personal protection.

8.1. Control parameters.

Normative requirements:

Italy	Legislative Decree 9 April 2008, n. 81.
Switzerland	Valeurs limites d'exposition aux postes de travail 2012.
OEL EU	Directive 2009/161 / EU; Directive 2006/15 / EC; Directive 2004/37 / EC;
TLV-ACGIH	Directive 2000/39 / EC.
	ACGIH 2012

AMMONIUM CHLORIDE

Threshold limit value.

Tipo	Stato	TWA/8h		STEL/15min		RESPIR
		mg/m3	ppm	mg/m3	ppm	
TLV	CH	3				
TLV-ACGIH		10		20		

Legend:

(C) = CEILING; INALAB = Inhalable fraction; RESPIR = Breathable fraction; TORAC = Thoracic fraction.

8.2 Exposure controls.

Considering that the use of adequate technical measures should always take priority over personal protective equipment, ensure good ventilation in the workplace through effective local aspiration.

HAND PROTECTION

Protect hands with category I work gloves (see Directive 89/686 / EEC and EN 374 standard) such as latex, PVC or equivalent. The following must be considered for the final choice of the work glove material: degradation, breakage time and permeation. In the case of preparations, the resistance of work gloves must be checked before use as unpredictable. The gloves have a wear time that depends on the duration of exposure.

SKIN PROTECTION

Wear work clothes with long sleeves and safety footwear for professional use of category I (see Directive 89/686 / EEC and standard EN 344). Wash with soap and water after removing protective clothing.

RESPIRATORY PROTECTION

In case of exceeding the threshold value (if available) of one or more of the substances present in the product, referred to the daily exposure in the work environment or to a fraction established by the company prevention and protection service, wear a mask with filter type B or universal type whose class (1, 2 or 3) must be chosen in relation to the limit concentration of use (ref.

Standard EN 141).

The use of respiratory protection devices, such as masks of the type indicated above, is necessary in the absence of technical measures to limit worker exposure. However, the protection offered by the masks is limited.

In case the substance considered is odorless or its olfactory threshold is higher than the relative exposure limit and in case of emergency, that is when the exposure levels are unknown or the concentration of oxygen in the work environment is less than 17% in volume, wear an open circuit compressed air breathing apparatus (see standard EN 137) or external air intake respirator for use with an entire mask, half mask or mouthpiece (see standard EN 138).

PROTECTION OF EYES

Recommended wearing tight protective goggles (see standard EN 166).



SECTION 9. Physical and chemical properties.

9.1. Information on basic physical and chemical properties.

Physical State	Liquid
color	Blue
odor	characteristic
Olfactory threshold.	Not available.
pH.	6
Melting or freezing point.	Not available.
Initial boiling point.	Not available.
Boiling range.	Not available.
Flash point.	> 60 ° C.
Evaporation rate	Not available.
Flammability of solids and gases	Not available.
Lower flammability limit.	Not available.
Upper flammability limit.	Not available.
Lower explosive limit.	Not available.
Upper explosive limit.	Not available.
Vapor pressure.	Not available.
Vapor density	Not available.
Relative density.	1,040 Kg / l
Solubility	Not available.
Partition coefficient: n-octanol / water:	Not available.
Self-ignition temperature.	Not available.
Decomposition temperature.	Not available.
Viscosity	Not available.
Explosive properties	Not available.
Oxidising properties	Not available.

9.2. Other information.

Information not available.

SECTION 10. Stability and reactivity.

10.1. Reactivity.

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

10.2. Chemical stability.

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

10.3. Possibility of dangerous reactions.

Unusual reactions are not expected under normal use and storage conditions.

10.4. Conditions to avoid.

None in particular. However, follow the usual precautions with regard to chemicals. AMMONIUM CHLORIDE: humidity and heat sources.

10.5. Incompatible materials.

AMMONIUM CHLORIDE: Water, trifluoride and bromine pentafluoride, bromine trifluoride, iodine heptafluoride, potassium chlorate, alkali, alkaline carbonates, acids, lead and silver salts.

10.6. Hazardous decomposition products.

AMMONIUM CHLORIDE: oxides of nitrogen, ammonia and hydrochloric acid.

SECTION 11. Toxicological information.

DIAMMON TETRACLOROCUPRATO: oral LD50 (mg / kg) 584 (RAT).

11.1. Information on toxicological effects.

In the absence of experimental toxicological data on the product itself, the possible dangers of the product for health have been evaluated on the basis of the properties of the substances contained, according to the criteria provided for by the reference standard for classification. Consider therefore the concentration of the individual hazardous substances mentioned in section 3, to evaluate the toxicological effects deriving from exposure to the product.

AMMONIUM CHLORIDE
LD50 (Oral). 1410 mg / kg Rat



SECTION 12. Ecological information.

Use according to good working practices, avoiding to disperse the product in the environment. Notify the competent authorities if the product has reached watercourses or sewers or if it has contaminated the soil or vegetation.

12.1. Toxicity.

Information not available.

12.2. Persistence and degradability.

Information not available.

12.3. Bioaccumulative potential.

Information not available.

12.4. Mobility in the soil.

Information not available.

12.5. Results of the PBT and vPvB assessment.

Based on the available data, the product does not contain PBT or vPvB substances in percentages greater than 0.1%.

12.6. Other adverse effects.

Information not available.

SECTION 13. Disposal considerations.

13.1 Waste treatment methods.

Reuse, if possible. The residues of the product as such are to be considered non-hazardous special waste. Disposal must be entrusted to a company authorized to manage waste, in compliance with national and possibly local regulations. Never dispose of the product in the ground, in sewers or watercourses. CONTAMINATED PACKAGING Contaminated packaging must be sent for recovery or disposal in accordance with national waste management regulations.

SECTION 14. Transport information.

The product is not considered dangerous according to the provisions in force concerning the transport of dangerous goods by road (A.D.R.), by rail (RID), by sea (IMDG Code) and by air (IATA).

SECTION 15. Regulatory information.

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

Seveso category. None.

Restrictions related to the product or to the substances contained according to Annex XVII Regulation (EC) 1907/2006.
None.

Substances in Candidate List (Article 59 REACH).
None.

Substances subject to authorization (Annex XIV REACH).
None.

Substances subject to export notification obligation Reg. (EC) 689/2008:
None.

Substances subject to the Rotterdam Convention:
None.

Substances subject to the Stockholm Convention:
None.

Sanitary checks.

Information not available.



15.2. Evaluation of chemical safety.

No chemical safety assessment has been made for the mixture and the substances it contains

SECTION 16. Other information.

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

Acute Tox. 4	Acute toxicity, category 4
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
EUH210	Safety data sheet available on request.

Text of the risk phrases (R) mentioned in sections 2-3 of the sheet:

R22	HARMFUL FOR INGESTION.
R36	IRRITANT FOR EYES.
R36 / 37/38	IRRITANT FOR EYES, RESPIRATORY TRACTORS AND SKIN.

LEGEND:

- ADR: European Agreement for the transport of dangerous goods by road
- CAS NUMBER: Chemical Abstract Service number
- EC50: Concentration that gives effect to 50% of the population subjected to tests
- CE NUMBER: ID number in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived level without effect
- EmS: Emergency Schedule
- GHS: Global harmonized system for the classification and labeling of chemicals
- IATA DGR: Regulations for the transport of dangerous goods of the International Air Transport Association
- IC50: Concentration of immobilization of 50% of the population subjected to tests
- IMDG: International Maritime Code for the transport of dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identification number in Annex VI of the CLP
- LC50: Lethal concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational exposure level
- PBT: Persistent, bioaccumulative and toxic according to REACH
- PEC: Predictable environmental concentration
- PEL: Predictable level of exposure
-
- PNEC: Predictable concentration without effects
- REACH: EC Regulation 1907/2006
- RID: Regulations for the international transport of dangerous goods by train
- TLV: Threshold limit value
- TLV CEILING: Concentration that must not be exceeded during any moment of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Weighted average exposure limit
- VOC: Volatile organic compound
- vPvB: Very persistent and very bioaccumulant according to REACH.

GENERAL BIBLIOGRAPHY:

1. Directive 1999/45 / EC and subsequent amendments
2. Directive 67/548 / EEC and subsequent amendments and adjustments
3. Regulation (CE) 1907/2006 of the European Parliament (REACH)
4. Regulation (EC) 1272/2008 of the European Parliament (CLP)
5. Regulation (EC) 790/2009 of the European Parliament (I Atp. CLP)
6. Regulation (CE) 453/2010 of the European Parliament
7. Regulation (EC) 286/2011 of the European Parliament (II Atp. CLP)
8. The Merck Index. Ed. 10
9. Handling Chemical Safety
10. Niosh - Registry of Toxic Effects of Chemical Substances
11. INRS - Fiche Toxicologique
12. Patty - Industrial Hygiene and Toxicology
13. N.I. Sax - Dangerous properties of Industrial Materials-7th Ed., 1989
14. ECHA Agency website