

# Safety Data Sheet:

According to EC Regulation 1907/2006/EC - revision 2015/830

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## SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

### 1.1. Product identifier

Product Name INSTA COPPER  
Product Code EP\_0528G M1 (CLP)

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

#### Recommended use

Anti-seize and lubricating compound.

### 1.3. Details of the supplier of the safety data sheet

NCH European Technical Centre Codnor Gate Business Park Ripley, Derbyshire, DE5 3NW, UK Tel.: 01902 510401.  
E-mail address reach@nch.com  
Website address www.ncheurope.com

### 1.4. Emergency telephone number

01902 510401 (available during Office Hours)

## SECTION 2. HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

#### **Classification according to Regulation (EC) No 1272/2008 (CLP/GHS) and its adaptations**

This mixture is not classified according to EU Regulation No 1272/2008  
Safety data sheet available on request.

### 2.2. Label elements

#### **Labelling according to Regulation (EC) No 1272/2008 (CLP/GHS) Supplemental Hazard Information (EU)**

Safety data sheet available on request.  
For industrial and institutional use only.  
Keep out of reach of children.

### 2.3. Other hazards

No additional hazards identified.

The components in this formulation do not meet the criteria for classification as PBT or vPvB. As defined under the regulation EC 1907/2006.

**SECTION 3. COMPOSITION / INFORMATION OF INGREDIENTS****3.2. Mixture**

| Chemical Name                      | CAS No.    | EC No.    | EU - REACH Reg Number | Weight %   | EU - GHS/CLP           | Notes |
|------------------------------------|------------|-----------|-----------------------|------------|------------------------|-------|
| LUBRICATING OILS                   | 74869-22-0 | 278-012-2 | 01-21194956<br>01-36  | 50 - < 100 | -                      | L     |
| HYDRATED MAGNESIUM SILICATE (TALC) | 14807-96-6 | 238-877-9 | -                     | 20 - < 25  | -                      |       |
| COPPER FLAKE                       | 7440-50-8  | 231-159-6 | .                     | 3 - < 5    | -                      |       |
| PROPYLENE CARBONATE                | 108-32-7   | 203-572-1 | 01-21195373<br>32-48  | 1 - < 3    | Eye Irrit. 2<br>(H319) |       |
| SILICA                             | 7631-86-9  | 231-545-4 | 01-21193794<br>99-16  | < 0.3      | -                      |       |

This mixture contains substances with a Community workplace exposure limit. For any H statements mentioned in this section, see the full text in section 16. The GHS/CLP classification for substances are listed once they have been harmonised according to the REACH Regulation No 1907 / 2006.

**EU Notes**

Note L - The classification as a carcinogen does not apply as the substance contains less than 3% DMSO extract ( IP 346)

**SECTION 4. FIRST AID MEASURES****4.1. Description of first aid measures**General advice

If symptoms persist, call a physician.

Eye Contact

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.

Skin Contact

Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Do not use solvents or thinners. Get medical attention if irritation develops and persists.

Ingestion

Do NOT induce vomiting. Rinse mouth with water. If swallowed, seek medical advice and show the container or label.

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

No information available.

Eye contact

May cause irritation as itching and redness.

Skin contact

Unlikely to be irritant on brief or occasional exposure.

**4.3. Indication of any immediate medical attention and special treatment needed**Notes to physician

Treat symptomatically.

**SECTION 5. FIRE-FIGHTING MEASURES****5.1. Extinguishing media**Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use: Dry powder. Alcohol-resistant foam. Carbon dioxide (CO<sub>2</sub>). Water spray.

Extinguishing media which must not be used for safety reasons

Water jet.

**5.2. Special hazards arising from the substance or mixture**

When exposed to high temperatures, the preparation may release dangerous decomposition products such as carbon monoxide and dioxide, smoke and/or nitrogen oxide. Silicon oxides.

Thermal decomposition can lead to release of irritating gases and vapors.

**5.3. Advice for firefighters**

Firefighters should wear a self-contained breathing apparatus and full protective gear.

**SECTION 6. ACCIDENTAL RELEASE MEASURES****6.1. Personal precautions, protective equipment and emergency procedures**

Avoid contact with skin, eyes, and clothing. Use personal protective equipment. Refer to protective measures listed in sections 7 and 8. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.

**6.2. Environmental precautions**

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. Insoluble in water and will sink.

**6.3. Methods and material for containment and cleaning up**Methods for Containment

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). If using a cloth to wipe up a small spillage, properly dispose of the used cloth to avoid a fire risk.

**6.4. Reference to other sections**

Refer to sections 7, 8 and 13.

**SECTION 7. HANDLING AND STORAGE****7.1. Precautions for safe handling**

Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists. Do not eat, drink or smoke when using this product. Ensure adequate ventilation.

**7.2. Conditions for safe storage, including any incompatibilities**

Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place.

**7.3. Specific end use(s)**

No information available.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. Control parameters**Exposure limits

TWA (8hrs): 5mg/m<sup>3</sup> / STEL(15mins):10mg/m<sup>3</sup>. If vapours, fumes or mists are generated, their concentration in the workplace area should be kept to the lowest reasonable level. For substances.

| Chemical Name                      | European Union | Czech  | Slovakia   | Poland   | Hungary  |
|------------------------------------|----------------|--|--|--|--|
| HYDRATED MAGNESIUM SILICATE (TALC) |                | PEL: 2.0mg/m <sup>3</sup>  | 2mg/m <sup>3</sup> NPEL<br>10mg/m <sup>3</sup> NPEL  | NDS: 4.0 mg/m <sup>3</sup><br>NDS: 1.0 mg/m <sup>3</sup> | ÁK-érték: 2 mg/m <sup>3</sup>  |
| COPPER FLAKE                       |                | PEL: 1mg/m <sup>3</sup><br>PEL: 0.1mg/m <sup>3</sup><br>NPK-P: 2mg/m <sup>3</sup><br>NPK-P: 0.2mg/m <sup>3</sup> | hranicny 2mg/m <sup>3</sup><br>hranicny 0.2mg/m <sup>3</sup><br>1mg/m <sup>3</sup> NPEL<br>0.1mg/m <sup>3</sup> NPEL | NDS: 0.2 mg/m <sup>3</sup>                               | CK-érték: 4 mg/m <sup>3</sup><br>CK-érték: 0.4 mg/m <sup>3</sup><br>ÁK-érték: 1 mg/m <sup>3</sup><br>ÁK-érték: 0.1 mg/m <sup>3</sup> |
| SILICA                             |                | PEL: 0.1mg/m <sup>3</sup><br>PEL: 4.0mg/m <sup>3</sup>   | 4.0mg/m <sup>3</sup> NPEL  |  |  |

Slovakia: Where applicable, the maximum limit under Regulation 355/2006 and Regulation 300/2007 as amended

**8.2. Exposure controls**Engineering Measures

Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Use personal protection equipment as per Directive 89/686/EEC.

Respiratory Protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. If excessive mist formation is likely wear suitable respiratory protection. Conforming to EN 143 eg P2 / P3 Particle filters.

Hand Protection

Wear suitable protective gloves conforming to EN 374. Type of gloves suggested :. Neoprene gloves (0.4mm). Nitrile rubber (0.4 mm). Solvent-resistant gloves (butyl-rubber). Suitability and durability of a glove is dependent upon usage factors such as frequency, duration of use, temperature and chemical resistance. The use of a chemical-protective glove may in practice be much shorter than the permeation time determined through testing. For break through times, refer to glove manufacturers recommendations.

Eye Protection

Safety glasses if the method of use presents the likelihood of eye contact. Approved to EN 166.

General Hygiene Considerations

Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**9.1. Information on basic physical and chemical properties**

Information below relates to typical values and does not constitute a specification.

|                                      |                           |                                 |                           |
|--------------------------------------|---------------------------|---------------------------------|---------------------------|
| <b>Appearance</b>                    | Copper                    | <b>Specific Gravity</b>         | No information available. |
| <b>Physical state</b>                | Paste                     | <b>Solubility</b>               | Insoluble in water        |
| <b>Odor</b>                          | Petroleum distillates     | <b>Autoignition Temperature</b> | > 280 °C                  |
| <b>pH</b>                            | Not applicable            | <b>Viscosity</b>                | Very viscous              |
| <b>Melting Point/Range</b>           | No information available. | <b>Explosive properties</b>     | No information available  |
| <b>Boiling Point/Range</b>           | > 250 °C                  | <b>Oxidizing Properties</b>     | No information available  |
| <b>Flash Point</b>                   | > 200 °C                  | <b>VOC Content (%)</b>          | 0%                        |
| <b>Method</b>                        | Closed cup                |                                 |                           |
| <b>Evaporation Rate</b>              | No information available  |                                 |                           |
| <b>Flammability Limits in Air %:</b> | No information available  |                                 |                           |
| <b>Vapor Pressure</b>                | No information available  |                                 |                           |
| <b>Vapor Density</b>                 | No information available  |                                 |                           |

**9.2. Other information**

No other information available

## SECTION 10. STABILITY AND REACTIVITY

**10.1. Reactivity**

Not considered as highly reactive. See further information below.

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

The mixture itself will not dangerously react or polymerise to create hazardous conditions in normal use.

**10.4. Conditions to avoid**

No conditions to be specially mentioned.

**10.5. Incompatible materials**

Strong oxidizing agents.

**10.6. Hazardous decomposition products**

None under normal storage conditions and use.

When exposed to high temperatures, the preparation may release dangerous decomposition products such as carbon monoxide and dioxide, smoke and/or nitrogen oxide. Silicon oxides.

## SECTION 11. TOXICOLOGICAL INFORMATION

**11.1. Information on toxicological effects**Product Information

The product itself has not been tested.

| Chemical Name       | Oral LD50             | Dermal LD50             | Inhalation LC50         |
|---------------------|-----------------------|-------------------------|-------------------------|
| LUBRICATING OILS    | > 5000 mg/kg ( Rat )  | > 2000 mg/kg ( Rabbit ) | = 2.18 mg/L ( Rat ) 4 h |
| PROPYLENE CARBONATE | = 29000 mg/kg ( Rat ) | > 20 mL/kg ( Rabbit )   |                         |
| SILICA              | > 5000 mg/kg ( Rat )  | > 2000 mg/kg ( Rabbit ) | > 2.2 mg/L ( Rat ) 1 h  |

Sensitization

No information available.

Skin contact

Unlikely to be irritant on brief or occasional exposure.

Eye contact

May cause irritation as itching and redness.

Carcinogenicity

There are no known carcinogenic substances in this product.

Mutagenic Effects

There are no known mutagenic substances in this product.

Reproductive Effects

There are no known substances in this product with effects on reproduction.

**SECTION 12. ECOLOGICAL INFORMATION****12.1. Toxicity**Product Information

The product itself has not been tested.

**Ecotoxicity effects**

Contains substance(s) known to be hazardous to the aquatic environment.

| Chemical Name                      | Toxicity to Fish  | Crustacea                                    | Toxicity to Algae  |
|------------------------------------|---|--|--|
| LUBRICATING OILS                   | LC50 > 5000 mg/L Oncorhynchus mykiss 96 h   | 1000: 48 h Daphnia magna mg/L<br>EC50        |  |
| HYDRATED MAGNESIUM SILICATE (TALC) | LC50 > 100 g/L Brachydanio rerio 96 h   |  |  |
| COPPER FLAKE                       | LC50 0.0068 - 0.0156 mg/L Pimephales promelas 96 h<br>LC50 < 0.3 mg/L Pimephales promelas 96 h<br>LC50 = 0.2 mg/L Pimephales promelas 96 h<br>LC50 = 0.052 mg/L Oncorhynchus mykiss 96 h<br>LC50 = 1.25 mg/L Lepomis macrochirus 96 h<br>LC50 = 0.3 mg/L Cyprinus carpio 96 h<br>LC50 = 0.8 mg/L Cyprinus carpio 96 h<br>LC50 = 0.112 mg/L Poecilia reticulata 96 h | 0.03: 48 h Daphnia magna mg/L<br>EC50 Static | EC50 0.0426 - 0.0535 mg/L Pseudokirchneriella subcapitata 72 h<br>EC50 0.031 - 0.054 mg/L Pseudokirchneriella subcapitata 96 h |
| PROPYLENE CARBONATE                | LC50 > 1000 mg/L Cyprinus carpio 96 h   | 500: 48 h Daphnia magna mg/L<br>EC50         | EC50 > 500 mg/L Desmodesmus subspicatus 72 h   |
| SILICA                             | LC50 = 5000 mg/L Brachydanio rerio 96 h   | 7600: 48 h Ceriodaphnia dubia mg/L<br>EC50   | EC50 = 440 mg/L Pseudokirchneriella subcapitata 72 h   |

**12.2. Persistence and degradability**

Ecotoxicological properties are substance specific, i.e. bioaccumulation, persistence and degradability. The information is given, where available and appropriate, for substance(s) of the mixture.

**12.3. Bioaccumulative potential**

Not likely to bioaccumulate. Component information below.

| Chemical Name       | Partition coefficient |
|---------------------|-----------------------|
| PROPYLENE CARBONATE | 0.48                  |

#### 12.4. Mobility in soil

The product is insoluble and sinks in water.

#### 12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB. As defined under the regulation EC 1907/2006.

#### 12.6. Other adverse effects

No data available.

### SECTION 13. DISPOSAL CONSIDERATIONS

#### 13.1. Waste treatment methods

Slovakia: Dispose of product and packaging in accordance with the law č. 79/2015 Z. of waste and amending certain laws

##### Waste from Residues / Unused Products

Dispose of in accordance with local regulations.

##### Contaminated Packaging

Empty containers should be taken for local recycling, recovery or waste disposal. Empty remaining contents. Recycle according to official regulations.

##### EWC waste disposal No

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. 12 01 12\* spent waxes and fats.

##### Other Information

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

### SECTION 14. TRANSPORT INFORMATION

#### 14.1, 14.2, 14.3, 14.4.

Not classified for transport as dangerous goods

#### 14.5. Environmental hazards

The mixture is not environmentally hazardous for transport.

#### 14.6. Special precautions for user

No special precautions.

#### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Packaged product, not typically transported in IBC's.

#### Additional information

The above information is based on latest transport regulations i.e. ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport.

### SECTION 15. REGULATORY INFORMATION

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

This mixture was classified in compliance with EC Regulation 1272/2008 (CLP) and its adaptations.

Slovakia: Into account the requisition and the law č.67/2010 Z. z. - The conditions referred to chemical substances and mixtures on the market and amending certain acts (Chemical Act)

##### WGK Classification

Water-endangering (WGK 2), Classification according AwSV-Verordnung

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out for this mixture by the supplier

### SECTION 16. OTHER INFORMATION

#### Text of H statements mentioned in Section 3

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H319 - Causes serious eye irritation.

**Prepared By** Austen Pimm

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**Revision summary**

CLP update. SDS sections updated 2 15 3 16

### Abbreviations

REACH: Registration Evaluation Authorisation Restriction of Chemicals

EU: European Union

EC: European community

EEC: European Economic Community

UN: United Nations

CAS: Chemical Abstracts Service

PBT: Persistent Bioaccumulative Toxic

vPvB: very Persistent very Bioaccumulative

LC50: Lethal concentration, 50 percent

LD50 : Lethal dose, 50 percent

EC50: Effective concentration, 50 percent

LogPow: LogP octanol/water

VwVwS: Verwaltungsvorschrift wassergefährdende Stoffe (Administrative order relating to substances hazardous to water - Germany)

WGK: Wassergefährdungsklasse (Water Hazard Class - Germany).

AVV: Abfallverzeichnis-Verordnung (Waste Code - Germany)

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route (European agreement governing the international carriage of dangerous goods by road)

IMDG: International Maritime Dangerous Goods

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations concerning the International carriage of Dangerous goods by rail)

EmS: Emergency Response Procedures for Ships Carrying Dangerous Goods

ERG: Emergency Response Guidebook

IUCLID / RTECS International Uniform Chemical Information Database / Registry of Toxic Effects of Chemical Substances

GHS: Globally Harmonised System of classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

VOC: Volatile Organic Chemical

w/w: weight for weight

DMSO: Dimethyl sulphoxide

OECD: Organization for Economic Cooperation and Development

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

### Further Information

Component test results displayed in sections 11 and 12 are typically supplied by Chemadvisor and assembled from publicly available literature sources e.g. IUCLID / RTECS.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

### Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Safety Data Sheet**