

# Safety Data Sheet:

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

Print Date 04/20/2018

Creation Date 01/31/2017

Revision No. 2.1  
Revision date 30/05/2017

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

### 1.1. Product identifier

Product Name Insta Copper aerosol  
Product Code EP\_2401G

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

#### Recommended use

Lubricants, Greases and Release Products.

### 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

Aerosols: Category 1  
Skin irritation: Category 2  
STOT- single exposure: Category 3  
Aquatic chronic: Category 2  
H222 - Extremely flammable aerosol  
H315 - Causes skin irritation  
H336 - May cause drowsiness or dizziness  
H411 - Toxic to aquatic life with long lasting effects  
H229 - Pressurized container: May burst if heated

### 2.2. Label elements

#### Labelling according to Regulation (EC) No 1272/2008 (CLP/GHS)

Contains HYDROCARBONS, C6-C7, ISOALKANES, CYCLICS, < 5% N-HEXANE

#### Hazard pictograms



Signal Word Danger

#### Hazard Statements

H222 - Extremely flammable aerosol  
H315 - Causes skin irritation  
H336 - May cause drowsiness or dizziness  
H411 - Toxic to aquatic life with long lasting effects  
H229 - Pressurized container: May burst if heated

#### Precautionary Statements

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
P211 - Do not spray on an open flame or other ignition source

PAGE FOOTER - EUROPE GHS SUB

P251 - Do not pierce or burn, even after use

P271 - Use only outdoors or in a well-ventilated area

P273 - Avoid release to the environment

P260 - Do not breathe spray

P261 - Avoid breathing mist/spray.

P280 - Wear protective gloves and eye/face protection

P312 - Call a POISON CENTER or doctor if you feel unwell

P391 - Collect spillage

P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

Keep out of reach of children.

For industrial and institutional use only.

### 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

Chemical Name	CAS No.	EC No.	EU - REACH Reg Number	Weight %	EU - GHS/CLP	Notes
HYDROCARBONS, C6-C7, ISOALKANES, CYCLICS, < 5% N-HEXANE	NOT KNOWN	921-024-6	01-21194755 14-35	25 - < 50	Flam. Liq. 2 (H225) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) STOT SE 3 (H336) Aquatic Chronic 2 (H411)	
PROPANE	74-98-6	200-827-9	01-21194869 44-21	20 - < 25	Press. Gas Flam. Gas 1 (H220)	
BUTANE	106-97-8	203-448-7	01-21194746 91-32	20 - < 25	Press. Gas Flam. Gas 1 (H220)	K
COPPER FLAKE	7440-50-8	231-159-6	.	5 - < 10	-	
Amines, hydrogenated tallow alkyl	61788-45-2	262-976-6	.	< 0.1	Skin Irrit. 2 (H315) Eye Dam. 1 (H318) STOT RE 2 (H373) Asp. Tox. 1 (H304) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	

For any H statements mentioned in this section, see the full text in section 16.

### EU Notes

Note K - The classification as a carcinogen or mutagen does not apply as the substance contains less than 0.1% w/w 1,3-butadiene

## SECTION 4. FIRST AID MEASURES

### 4.1. Description of first aid measures

#### General advice

Get medical attention immediately if symptoms occur. Avoid breathing vapors or mists.

Eye Contact

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

Skin Contact

Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention immediately if irritation develops and persists.

Ingestion

Rinse mouth with water. If swallowed, do not induce vomiting - seek medical advice.

Inhalation

Remove from the area to fresh air. Seek medical attention if respiratory irritation develops or if breathing becomes difficult. If exposed to high concentrations of the aerosol vapours, move to fresh air.

**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

Prolonged contact will dry and defat the skin and may cause irritation such as itching and redness.

Inhalation

Inhalation of mists may result in irritation to the respiratory tract. May cause headaches, dizziness, drowsiness and nausea.

**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: Water spray. Dry powder. Alcohol-resistant foam. Carbon dioxide (CO<sub>2</sub>).

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 mixture may release dangerous decomposition products such as carbon monoxide and dioxide, smoke and/or nitrogen oxide.

Pressurized container. Extremely flammable. Keep product and empty container away from heat and sources of ignition.

**5.3. Advice for firefighters**

Firefighters should wear a self-contained breathing apparatus and full protective gear. Cool fire-exposed containers with water spray to prevent bursting.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

**6.1. Personal precautions, protective equipment and emergency procedures**

Avoid contact with skin, eyes, and clothing. Prevent further leakage or spillage if safe to do so. Refer to protective measures listed in sections 7 and 8. Remove all sources of ignition. Evacuate personnel to safe areas. Due to the nature of the packaging, a large spill is unlikely. For a small spill, absorb with a damp cloth and rinse area into a sanitary sewer. Use care as spills may be slippery.

**6.2. Environmental precautions**

Prevent product from contaminating soil or from entering sewage, drainage systems, and bodies of water. Prevent further leakage or spillage if safe to do so. Insoluble in water and hence will float on the surface.

**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). Remove all sources of ignition.

Methods for Cleaning up

For the non volatile residues: Clean preferably with a detergent, do not use solvents.

**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. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Ensure adequate ventilation.

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

Keep away from open flames, hot surfaces and sources of ignition. P401 - Store in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C.

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

No information available.

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

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
PROPANE				NDS: 1800 mg/m <sup>3</sup>	
BUTANE				NDSch: 3000 mg/m <sup>3</sup> NDS: 1900 mg/m <sup>3</sup>	CK-érték: 9400 mg/m <sup>3</sup> ÁK-érték: 2350 mg/m <sup>3</sup>
COPPER FLAKE		PEL: 1mg/m <sup>3</sup> PEL: 0.1mg/m <sup>3</sup> NPK-P: 2mg/m <sup>3</sup> NPK-P: 0.2mg/m <sup>3</sup>	hranicny 2mg/m <sup>3</sup> hranicny 0.2mg/m <sup>3</sup> 1mg/m <sup>3</sup> NPEL 0.1mg/m <sup>3</sup> NPEL	NDS: 0.2 mg/m <sup>3</sup>	CK-érték: 4 mg/m <sup>3</sup> CK-érték: 0.4 mg/m <sup>3</sup> ÁK-érték: 1 mg/m <sup>3</sup> ÁK-érték: 0.1 mg/m <sup>3</sup>

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

In case of insufficient ventilation wear suitable respiratory equipment. Conforming to EN 14387 (organic vapours). When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hand Protection

Wear suitable protective gloves conforming to EN 374. Type of gloves suggested :. Solvent-resistant gloves (butyl-rubber). Fluorinated rubber. Polyvinyl alcohol. 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.

**Environmental exposure controls**

Local authorities should be advised if significant spillages cannot be contained.

**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, Liquid	<b>Specific Gravity</b>	0.72
<b>Odor</b>	Characteristic	<b>Solubility</b>	Not miscible
<b>pH</b>	No information available.	<b>Autoignition Temperature</b>	No information available.
<b>Melting Point/Range</b>	No information available.	<b>Viscosity</b>	No information available
<b>Boiling Point/Range</b>	-44 °C	<b>Explosive properties</b>	Not explosive
<b>Flash Point</b>	< -50 °C	<b>Explosion limits</b>	
<b>Evaporation Rate</b>	No information available	<b>Upper</b>	0.8 Vol %
<b>Flammability Limits in Air %:</b>	No information available	<b>Lower</b>	10.9 Vol %
<b>Vapor Pressure</b>	8300 hPa @ 20 °C	<b>Oxidizing Properties</b>	No information available
<b>Vapor Density</b>	No information available	<b>VOC Content (%)</b>	68

**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**

Keep away from open flames, hot surfaces, and sources of ignition. Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C.

**10.5. Incompatible materials**

Strong oxidizing agents. Strong acids. Strong bases.

**10.6. Hazardous decomposition products**

None under normal storage conditions and use.

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

**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
HYDROCARBONS, C6-C7, ISOALKANES, CYCLICS, < 5% N-HEXANE			>20 mg/l (Vapour) (Rat)
PROPANE			= 658 mg/L ( Rat ) 4 h
BUTANE			= 658 g/m <sup>3</sup> ( Rat ) 4 h
Amines, hydrogenated tallow alkyl	> 2000 mg/kg ( Rat )		

Sensitization

No information available.

Skin contact

Prolonged contact will dry and defat the skin and may cause irritation such as itching and redness.

Inhalation

Inhalation of mists may result in irritation to the respiratory tract. May cause headaches, dizziness, drowsiness and nausea.

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
HYDROCARBONS, C6-C7, ISOALKANES, CYCLICS, < 5% N-HEXANE	LL50 12 mg/l (96h)	EL50 3 mg/l (48h)	EL50 55 mg/l (72h)
COPPER FLAKE	LC50 0.0068 - 0.0156 mg/L Pimephales promelas 96 h LC50 < 0.3 mg/L Pimephales promelas 96 h LC50 = 0.2 mg/L Pimephales promelas 96 h LC50 = 0.052 mg/L Oncorhynchus mykiss 96 h LC50 = 1.25 mg/L Lepomis macrochirus 96 h LC50 = 0.3 mg/L Cyprinus carpio 96 h LC50 = 0.8 mg/L Cyprinus carpio 96 h LC50 = 0.112 mg/L Poecilia reticulata 96 h	0.03: 48 h Daphnia magna mg/L EC50 Static	EC50 0.0426 - 0.0535 mg/L Pseudokirchneriella subcapitata 72 h EC50 0.031 - 0.054 mg/L Pseudokirchneriella subcapitata 96 h
Amines, hydrogenated tallow alkyl	LC50 = 0.88 mg/L Brachydanio rerio 96 h LC50 1.0 - 10.0 mg/L Brachydanio rerio 96 h	0.13: 48 h Daphnia magna mg/L EC50	

**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**

Bioaccumulation unlikely due to the high volatility of the product. Component information below.

Chemical Name	Partition coefficient
PROPANE	2.3
BUTANE	2.89

**12.4. Mobility in soil**

The product is insoluble and floats on water. This product is volatile and will readily evaporate to the air if released into the environment.

**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. Recycle according to official regulations. For empty containers - Do not weld, solder, braze, grind etc.. Do not expose to heat, flames, sparks or other sources of ignition. Do not pierce or burn, even after use.

EWC waste disposal No

The following EWC/ AVV waste codes may be applicable: 16 05 04\* gases in pressure containers (including halons) containing dangerous substances. 15 01 10\* packaging containing residues of or contaminated by dangerous substances.

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.**

## IMDG/IMO

<b>UN-No</b>	UN1950
<b>Proper Shipping Name</b>	Aerosols, Flammable
<b>Hazard Class</b>	2.1
<b>EmS No.</b>	F-D, S-U

## ADR/RID

<b>UN-No</b>	UN1950
<b>Hazard Class</b>	2.1
<b>Classification Code</b>	5F
<b>Limited Quantity</b>	1L
<b>Transport Cat. (Tunnel Restriction Code)</b>	2 (D)

## IATA/ICAO

<b>UN-No</b>	UN1950
<b>Hazard Class</b>	2.1
<b>ERG-Code</b>	10P

**14.5. Environmental hazards**

The mixture is 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.

This mixture was classified in compliance with the directive 1999/45/EC and its adaptations. This mixture is not classed as hazardous by Directive 1999/45/EC. In addition, Directive 2009/2/EC with the 31st Adaptation of Directive 67/548/EEC (Hazardous substances) has been taken into account.

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

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

## 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

H220 - Extremely flammable gas. H225 - Highly flammable liquid and vapor. H304 - May be fatal if swallowed and enters airways. H315 - Causes skin irritation. H318 - Causes serious eye damage. H336 - May cause drowsiness or dizziness. H373 - May cause damage to organs through prolonged or repeated exposure if inhaled. H400 - Very toxic to aquatic life. H410 - Very toxic to aquatic life with long lasting effects. H411 - Toxic to aquatic life with long lasting effects.

**Prepared By** Pilar Ortiz

**Creation Date** 01/31/2017

**Revision date** 30/05/2017

### Revision summary

Initial release

### 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**



