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SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended.

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

1.1 Product identifier Product Name: CP202 Product Size: ALL

Other means of identification

SDS number: 20000007405

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

Identified uses: Metal Brazing

Uses advised against: Not known. Read this SDS before using this product.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Importer/Supplier/Distributor Information

Company Name: GS Metal Joining Ltd Address: 154 Mandalay Rd

> Pleasley Mansfield Nottinghamshire NG19 7TJ

UK

Telephone: +44 (0)1623 707954

Contact Person: Safety Data Sheet Questions:

shaun@gsmetaljoining.co.uk

1.4 Emergency telephone number:

UK +44 (0)1623 707954

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has not been classified as hazardous according to the legislation in force.

Classification according to Regulation (EC) No 1272/2008 as amended.

Not classified as hazardous according to applicable GHS hazard classification criteria.



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2.2 Label Elements Not applicable

2.3 Other hazards Heat rays (infrared radiation) from flame or hot metal can injure eyes.

Overexposure to brazing fumes and gases can be hazardous. Read and understand the manufacturer's instructions, Safety Data Sheets and the

precautionary labels before using this product.

Substance(s) formed under the conditions of use:

Fumes produced from use of this product may contain the following constituent(s) and/or their complex metallic oxides as well as solid particles or other constituents from the solder, brazing consumable, flux material or base metal, or base metal coating not listed below.

Chemical name	CAS-No.
Carbon dioxide	124-38-9
Carbon monoxide	630-08-0
Nitrogen dioxide	10102-44-0
Ozone	10028-15-6

SECTION 3: Composition/information on ingredients

Reportable Hazardous Ingredients 3.2 Mixtures

Chemical name	Concentration	CAS-No.	EC No.	Classification	Notes	REACH Registration No.
Copper and/or copper alloys and compounds (as Cu)	50 - <100%	7440-50-8	231-159-6	Aquatic Acute: 1: H400 Aquatic Chronic: 3: H412	#	01-2119480154-42;
Phosphorus	5 - <10%	7723-14-0	231-768-7	Flam. Sol.: 1: H228 Aquatic Acute: 3: H412 Aquatic Chronic: 3: H412	#	01-2119448009-39;

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

CLP: Regulation No. 1272/2008.

The full text for all H-statements is displayed in section 16.

Composition Comments: The term "Hazardous Ingredients" should be interpreted as a term defined

in Hazard Communication standards and does not necessarily imply the existence of a welding hazard. The product may contain additional non-hazardous ingredients or may form additional compounds under the condition of use. Refer to Sections 2 and 8 for more information.

SECTION 4: First aid measures

4.1 Description of first aid measures

[#] This substance has workplace exposure limit(s).



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Inhalation: Move to fresh air if breathing is difficult. If breathing has stopped, perform

artificial respiration and obtain medical assistance at once.

Skin Contact: Remove contaminated clothing and wash the skin thoroughly with soap and

water. For reddened or blistered skin, or thermal burns, obtain medical

assistance at once.

Eye contact: Do not rub eye. Any material that contacts the eye should be washed out

immediately with water. If easy to do, remove contact lenses. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms

occur after washing.

Ingestion: Avoid hand, clothing, food, and drink contact with fluxes, metal fume or

powder which can cause ingestion of particulate during hand to mouth activities such as drinking, eating, smoking, etc. If ingested, do not induce vomiting. Contact a poison control center. Unless the poison control center advises otherwise, wash out mouth thoroughly with water. If symptoms

develop, seek medical attention at once.

4.2 Most important symptoms and effects, both acute and

delayed:

Short-term (acute) overexposure to fumes and gases from welding and allied processes may result in discomfort such as metal fume fever, dizziness, nausea, or dryness or irritation of nose, throat, or eyes. May aggravate pre-existing respiratory problems (e.g. asthma, emphysema). Long-term (chronic) overexposure to fumes and gases from welding and allied processes can lead to siderosis (iron deposits in lung), central nervous system effects, bronchitis and other pulmonary effects. Refer to Section 11 for more information.

4.3 Indication of any immediate medical attention and special treatment needed

Hazards:

The hazards associated with welding and its allied processes such as soldering and brazing are complex and may include physical and health hazards such as but not limited to electric shock, physical strains, radiation burns (eye flash), thermal burns due to hot metal or spatter and potential health effects of overexposure to fumes, gases or dusts potentially generated during the use of this product. Refer to Section 11 for more

information.

Treatment: Treat symptomatically.

SECTION 5: Firefighting measures

General Fire Hazards: As shipped, this product is nonflammable. However, welding arc and

sparks as well as open flames and hot surfaces associated with brazing and soldering can ignite combustible and flammable materials. Read and understand American National Standard Z49.1, "Safety in Welding, Cutting and Allied Processes" and National Fire Protection Association NFPA 51B, "Standard for Fire Prevention during Welding, Cutting and Other Hot Work"

before using this product.

5.1 Extinguishing media Suitable extinguishing

media:

Use fire-extinguishing media appropriate for surrounding materials.



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Unsuitable extinguishing media:

Do not use water jet as an extinguisher, as this will spread the fire.

5.2 Special hazards arising from the substance or mixture:

During fire, gases hazardous to health may be formed.

5.3 Advice for firefighters Special fire fighting procedures:

Use standard firefighting procedures and consider the hazards of other

involved materials.

Special protective equipment for fire-fighters: Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus

and full protective clothing must be worn in case of fire.

SECTION 6: Accidental release measures

6.1 Personal precautions. protective equipment and emergency procedures:

If airborne dust and/or fume is present, use adequate engineering controls and, if needed, personal protection to prevent overexposure. Refer to recommendations in Section 8.

6.2 Environmental Precautions:

Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer. Environmental manager must be informed of all major spillages.

6.3 Methods and material for containment and cleaning up:

Absorb with sand or other inert absorbent. Stop the flow of material, if this is without risk. Clean up spills immediately, observing precautions in the personal protective equipment in Section 8. Avoid generating dust. Prevent product from entering any drains, sewers or water sources. Refer to Section 13 for proper disposal.

6.4 Reference to other sections:

For further specification, refer to section 8 of the SDS.

SECTION 7: Handling and storage:

7.1 Precautions for safe handling:

Prevent abrading consumable materials or creating dust. Provide appropriate exhaust ventilation at places where fume or dust is formed. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Read and understand the manufacturer's instruction and the precautionary label on the product. See American National Standard Z49.1, "Safety In Welding, Cutting and Allied Processes" published by the American Welding Society, http://pubs.aws.org and OSHA Publication 2206 (29CFR1910),

U.S. Government Printing Office, www.gpo.gov.

7.2 Conditions for safe storage, including any incompatibilities:

Store in closed original container in a dry place. Store in accordance with local/regional/national regulations. Store away from incompatible materials.

SECTION 8: Exposure controls/personal protection



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8.1 Control Parameters

MAC, PEL, TLV and other exposure limit values may vary per element and form - as well as per country. All country-specific values are not listed. If no occupational exposure limit values are listed below, your local authority may still have applicable values. Refer to your local or national exposure limit values.

Control Parameters

Occupational Exposure Limits: Great Britain

odupational Exposure Limits. Ordat Britain							
Chemical Identity	Туре	Exposure Limit Values	Source				
Copper and/or copper alloys and compounds (as Cu) - Inhalable dusts and mists as Cu	nd compounds (as Cu) - halable dusts and mists		UK. EH40 Workplace Exposure Limits (WELs) (2007)				
	STEL	2 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (2007)				
Copper and/or copper alloys and compounds (as Cu) - Fume.	TWA	0,2 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (2007)				
Phosphorus	STEL	0,3 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (2007)				
	TWA	0,1 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (2007)				

Biological Limit Values: Great Britain

None of the components have assigned exposure limits.

Biological Limit Values: ACGIH

None of the components have assigned exposure limits.

Additional exposure limits under the conditions of use: Great Britain

Chemical Identity	Туре	Exposure Limit Values	Source
Carbon dioxide	TWA	5.000 ppm	UK. EH40 Workplace Exposure Limits (WELs)
	STEL	15.000 ppm	UK. EH40 Workplace Exposure Limits (WELs)
Carbon monoxide	TWA	30 ppm	UK. EH40 Workplace Exposure Limits (WELs)
	STEL	200 ppm	UK. EH40 Workplace Exposure Limits (WELs)
	STEL	100 ppm	EU. Indicative Exposure Limit Values in
			Directives 91/322/EEC, 2000/39/EC,
			2006/15/EC, 2009/161/EU (Indicative)
	TWA	20 ppm	EU. Indicative Exposure Limit Values in
			Directives 91/322/EEC, 2000/39/EC,
			2006/15/EC, 2009/161/EU (Indicative)
Nitrogen dioxide	TWA	0,5 ppm	EU. Indicative Exposure Limit Values in
			Directives 91/322/EEC, 2000/39/EC,
			2006/15/EC, 2009/161/EU (Indicative)
	STEL	1 ppm	EU. Indicative Exposure Limit Values in
			Directives 91/322/EEC, 2000/39/EC,
			2006/15/EC, 2009/161/EU (Indicative)
Ozone	STEL	0,2 ppm	UK. EH40 Workplace Exposure Limits (WELs)

Additional exposure limits under the conditions of use: US

Chemical Identity	Туре	Exposure Limit Values	Source
Carbon dioxide	TWA	5.000 ppm	US. ACGIH Threshold Limit Values (12 2010)
	STEL	30.000 ppm	US. ACGIH Threshold Limit Values (12 2010)
	PEL	5.000 ppm 9.000 mg/m3	US. OSHA Table Z-1 Limits for Air



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				Contaminants (29 CFR 1910.1000) (02 2006)
Carbon monoxide	TWA	25 ppm		US. ACGIH Threshold Limit Values (12 2010)
	PEL	50 ppm	55 mg/m3	US. OSHA Table Z-1 Limits for Air
				Contaminants (29 CFR 1910.1000) (02 2006)
Nitrogen dioxide	TWA	0,2 ppm		US. ACGIH Threshold Limit Values (02 2012)
	Ceiling	5 ppm	9 mg/m3	US. OSHA Table Z-1 Limits for Air
				Contaminants (29 CFR 1910.1000) (02 2006)
Ozone	PEL	0,1 ppm	0,2 mg/m3	US. OSHA Table Z-1 Limits for Air
				Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	0,05 ppm		US. ACGIH Threshold Limit Values (03 2014)
	TWA	0,20 ppm		US. ACGIH Threshold Limit Values (03 2014)
	TWA	0,10 ppm		US. ACGIH Threshold Limit Values (03 2014)
	TWA	0,08 ppm		US. ACGIH Threshold Limit Values (03 2014)

8.2 Exposure controls Appropriate Engineering Controls

Ventilation: Use enough ventilation and local exhaust at the arc, flame or heat source to keep the fumes and gases from the worker's breathing zone and the general area. Train the operator to keep their head out of the fumes. **Keep exposure as low as possible.**

Individual protection measures, such as personal protective equipment General information: Exposure Guidelines: To reduce the po

Exposure Guidelines: To reduce the potential for overexposure, use controls such as adequate ventilation and personal protective equipment (PPE). Overexposure refers to exceeding applicable local limits, the American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values (TLVs) or the Occupational Safety and Health Administration's (OSHA) Permissible Exposure Limits (PELs). Workplace exposure levels should be established by competent industrial hygiene assessments. Unless exposure levels are confirmed to be below the applicable local limit, TLV or PEL, whichever is lower, respirator use is required. Absent these controls, overexposure to one or more compound constituents, including those in the fume or airborne particles, may occur resulting in potential health hazards. According to the ACGIH, TLVs and Biological Exposure Indices (BEIs) "represent conditions under which ACGIH believes that nearly all workers may be repeatedly exposed without adverse health effects." The ACGIH further states that the TLV-TWA should be used as a guide in the control of health hazards and should not be used to indicate a fine line between safe and dangerous exposures. See Section 10 for information on constituents which have some potential to present health hazards. Welding consumables and materials being joined may contain chromium as an unintended trace element. Materials that contain chromium may produce some amount of hexavalent chromium (CrVI) and other chromium compounds as a byproduct in the fume. In 2018, the American Conference of Governmental Industrial Hygienists (ACGIH) lowered the Threshold Limit Value (TLV) for hexavalent chromium from 50 micrograms per cubic meter of air (50 µg/m³) to 0.2 µg/m³. At these new limits, CrVI exposures at or above the TLV may be possible in cases where adequate ventilation is not provided. CrVI compounds are on the IARC and NTP lists as posing a lung cancer and sinus cancer risk. Workplace conditions are unique and welding fume exposures levels vary. Workplace exposure assessments must be conducted by a qualified professional, such as an industrial hygienist, to determine if exposures are below applicable limits and to make recommendations when necessary for preventing overexposures.



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Eye/face protection: Wear helmet, face shield or eye protection with filter lens shade number 2

for torch soldering and 3-4 for torch brazing, and follow the

recommendations as specified in ANSI Z49.1, Section 4, based on your process details. Shield others by providing appropriate screens and eye

protection.

Skin protection

Hand Protection: Wear protective gloves. Suitable gloves can be recommended by the glove

supplier.

Other: Protective Clothing: Wear hand, head, and body protection which help to

prevent injury from radiation, open flames, hot surfaces, sparks and electrical shock. See Z49.1. At a minimum, this includes welder's gloves and a protective face shield when welding, and may include arm protectors, aprons, hats, shoulder protection, as well as dark substantial clothing when welding, brazing and soldering. Wear dry gloves free of holes or split seams. Train the operator not to permit electrically live parts or electrodes from contacting the skin . . . or clothing or gloves if they are wet. Insulate yourself from the work piece and ground using dry plywood, rubber mats or

other dry insulation.

Respiratory Protection: Keep your head out of fumes. Use enough ventilation and local exhaust to

keep fumes and gases from your breathing zone and the general area. An approved respirator should be used unless exposure assessments are

below applicable exposure limits.

Hygiene measures: Do not eat, drink or smoke when using the product. Always observe good

personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Determine the composition and quantity of fumes and gases to which workers are exposed by taking an air sample from inside the welder's helmet if worn or in the worker's breathing zone. Improve ventilation if exposures are not

below limits. See ANSI/AWS F1.1, F1.2, F1.3 and F1.5, available from the

American Welding Society, www.aws.org.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: Bare brazing consumable.

Physical state: Solid Form: Solid

Color:

No data available.

Odor:

No data available.

Odor Threshold:

pH:

No data available.

No data available.

Melting Point:

No data available.

Evaporation Rate: No data available.



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Flammability (solid, gas):

Flammability Limit - Upper (%):

Flammability Limit - Lower (%):

Vapor pressure:

Vapor density (air=1):

Density:

Relative density:

No data available.

Solubility(ies)

Solubility in Water: No data available. No data available. Solubility (other): Partition coefficient (n-octanol/water): No data available. **Autoignition Temperature:** No data available. **Decomposition Temperature:** No data available. SADT: No data available. Viscosity: No data available. **Explosive properties:** No data available. No data available. Oxidizing properties:

SECTION 10: Stability and reactivity

10.1 Reactivity: The product is non-reactive under normal conditions of use, storage and

transport.

10.2 Chemical Stability: Material is stable under normal conditions.

10.3 Possibility of hazardous

reactions:

None under normal conditions.

10.4 Conditions to avoid: Avoid heat or contamination.

10.5 Incompatible Materials: Strong acids. Strong oxidizing substances. Strong bases.



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10.6 Hazardous Decomposition Products:

Fumes and gases from welding and its allied processes such as brazing and soldering cannot be classified simply. The composition and quantity of both are dependent upon the metal to which the joining or hot work is applied, the process, procedure - and where applicable - the electrode or consumable used. Other conditions which also influence the composition and quantity of the fumes and gases to which workers may be exposed include: coatings on the metal being welded or worked (such as paint, plating, or galvanizing), the number of operators and the volume of the work area, the quality and amount of ventilation, the position of the operator's head with respect to the fume plume, as well as the presence of contaminants in the atmosphere (such as chlorinated hydrocarbon vapors from cleaning and degreasing activities.)

In cases where an electrode or other applied material is consumed, the fume and gas decomposition products generated are different in percent and form from the ingredients listed in Section 3. Decomposition products of normal operation include those originating from the volatilization, reaction, or oxidation of the materials shown in Section 3, plus those from the base metal and coating, etc., as noted above. Reasonably expected fume constituents produced during arc welding and brazing include the oxides of iron, manganese and other metals present in the welding consumable or base metal. Hexavalent chromium compounds may be in the welding or brazing fume of consumables or base metals which contain chromium. Gaseous and particulate fluoride may be in the fume of consumables or flux materials which contain fluoride. Gaseous reaction products may include carbon monoxide and carbon dioxide. Ozone and nitrogen oxides may be formed by the radiation from the arc associated with welding.

SECTION 11: Toxicological information

General information: The International Agency for Research on Cancer (IARC) has determined

welding fumes and ultraviolet radiation from welding are carcinogenic to humans (Group 1). According to IARC, welding fumes cause cancer of the lung and positive associations have been observed with cancer of the kidney. Also according to IARC, ultraviolet radiation from welding causes ocular melanoma. IARC identifies gouging, brazing, carbon arc or plasma arc cutting, and soldering as processes closely related to welding. Read and understand the manufacturer's instructions, Safety Data Sheets and

the precautionary labels before using this product.

Information on likely routes of exposure

Inhalation: Inhalation is the primary route of exposure. In high concentrations, dust,

vapors, fumes or mists may irritate nose, throat and mucus membranes.

Skin Contact: Moderately irritating to skin with prolonged exposure.

Eye contact: HEAT RAYS (INFRARED RADIATION) from flame or hot metal can injure

eves.

Ingestion: Avoid ingestion - wear gloves and other appropriate personal protection -

wash hands thoroughly following use or handling.

Symptoms related to the physical, chemical and toxicological characteristics



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Inhalation: Short-term (acute) overexposure to fumes and gases from brazing and

soldering may result in discomfort such as metal fume fever, dizziness, nausea, or dryness or irritation of nose, throat, or eyes. May aggravate pre-existing respiratory problems (e.g. asthma, emphysema). Long-term (chronic) overexposure to fumes and gases from brazing and soldering can lead to siderosis (iron deposits in lung), central nervous system effects, bronchitis and other pulmonary effects. Products which contain lead or cadmium have additional specific health hazards - refer to Sections 2, 8

and 11 of this SDS.

11.1 Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: Not classified

Specified substance(s):

Copper and/or copper alloys and compounds

LD 50 (Rat): 481 mg/kg

(as Cu)

Dermal

Product: Not classified

Inhalation

Product: Not classified

Repeated dose toxicity

Product: Not classified

Skin Corrosion/Irritation

Product: Not classified

Serious Eye Damage/Eye Irritation

Product: Not classified

Respiratory or Skin Sensitization

Product: Not classified

Carcinogenicity

Product: Arc rays: Skin cancer has been reported.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro

Product: Not classified

In vivo

Product: Not classified

Reproductive toxicity

Product: Not classified



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Specific Target Organ Toxicity - Single Exposure

Product: Not classified

Specific Target Organ Toxicity - Repeated Exposure

Product: Not classified

Aspiration Hazard

Product: Not classified

Symptoms related to the physical, chemical and toxicological characteristics under the condition of use

Additional toxicological Information under the conditions of use:

Acute toxicity

Inhalation

Specified substance(s):

Carbon dioxide LC Lo (Human, 5 min): 90000 ppm

Carbon monoxide LC 50 (Rat, 4 h): 1300 ppm Nitrogen dioxide LC 50 (Rat, 4 h): 88 ppm

Ozone LC Lo (Human, 30 min): 50 ppm

Other effects:

Specified substance(s):

Carbon dioxide Asphyxia

Carbon monoxide Carboxyhemoglobinemia

Nitrogen dioxide Lower respiratory tract irritation

SECTION 12: Ecological information

12.1 Ecotoxicity

Acute hazards to the aquatic environment:

Fish

Product: Not classified

Specified substance(s):

Copper and/or copper alloys and compounds

LC 50 (Fathead minnow (Pimephales promelas), 96 h): 1,6 mg/l

(as Cu)

Phosphorus LC 50 (Danio rerio, 96 h): 33,2 mg/l

Aquatic Invertebrates

Product: Not classified

Specified substance(s):

Copper and/or copper EC 50 (Water flea (Daphnia magna), 48 h): 0,102 mg/l alloys and compounds

(as Cu)

Phosphorus EC 50 (Daphnia magna, 48 h): 10,5 mg/l

Chronic hazards to the aquatic environment:

Fish

Product: Not classified



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Aquatic Invertebrates

Product: Not classified

Toxicity to Aquatic Plants

Product:

Not classified

Specified substance(s):

Copper and/or copper alloys and compounds

(as Cu)

LC 50 (Green algae (Scenedesmus dimorphus), 3 d): 0,0623 mg/l

12.2 Persistence and Degradability

Biodegradation

Product: No data available.

12.3 Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Specified substance(s):

Copper and/or copper alloys and compounds

Blue-green algae (Anacystis nidulans), Bioconcentration Factor (BCF):

36,01 (Static)

(as Cu)

Phosphorus Various, Bioconcentration Factor (BCF): 62.000 Aquatic sediment

Experimental result, Key study

12.4 Mobility in soil: No data available.

12.5 Results of PBT and vPvB

assessment:

No data available.

12.6 Other adverse effects: No data available.

12.7 Additional Information: No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information: The generation of waste should be avoided or minimized whenever

possible. When practical, recycle in an environmentally acceptable, regulatory compliant manner. Dispose of non-recyclable products in accordance with all applicable Federal, State, Provincial, and Local

requirements.

Disposal instructions: Dispose of this material and its container to hazardous or special waste

collection point.

Contaminated Packaging: Dispose of contents/container to an appropriate treatment and disposal

facility in accordance with applicable laws and regulations, and product

characteristics at time of disposal.

SECTION 14: Transport information

ADR



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14.1 UN Number:

14.2 UN Proper Shipping Name: NOT DG REGULATED

14.3 Transport Hazard Class(es)

Class: NR
Label(s): –
Hazard No. (ADR): –
Tunnel restriction code:

14.4 Packing Group:

Limited quantity
Excepted quantity

14.5 Marine Pollutant No

ADN

14.1 UN Number:

14.2 UN Proper Shipping Name: NOT DG REGULATED

14.3 Transport Hazard Class(es)

Class: NR
Label(s): –
Hazard No. (ADR): –

14.4 Packing Group: –
Limited quantity

Excepted quantity

14.5 Marine Pollutant No

RID

14.1 UN Number:

14.2 UN Proper Shipping Name NOT DG REGULATED

14.3 Transport Hazard Class(es)

Class: NR
Label(s): –

14.4 Packing Group: –

14.5 Marine Pollutant No

IMDG

14.1 UN Number:

14.2 UN Proper Shipping Name: NOT DG REGULATED

14.3 Transport Hazard Class(es)

Class: NR Label(s): – EmS No.:

14.4 Packing Group: –

Limited quantity Excepted quantity

14.5 Marine Pollutant No

IATA

14.1 UN Number:

14.2 Proper Shipping Name: NOT DG REGULATED

14.3 Transport Hazard Class(es):

Class: NR
Label(s): –

14.4 Packing Group: –

Cargo aircraft only:



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Passenger and cargo aircraft:

Limited quantity: Excepted quantity

14.5 Marine Pollutant No

Cargo aircraft only: Allowed.

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

SECTION 15: Regulatory information

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

EU Regulations

Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer: None

Regulation (EC) No. 850/2004 on persistent organic pollutants: None

Regulation (EC) No. 689/2008 Import and export of dangerous chemicals: None

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended: None

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use:

Chemical name	CAS-No.	Concentration
Phosphorus	7723-14-0	1,0 - 10%

Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work.: None

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding.: None

Directive 96/82/EC (Seveso III): on the control of major accident hazards involving dangerous substances:

Chemical name	CAS-No.	Concentration
Phosphorus	7723-14-0	1,0 - 10%

EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants:

Chemical name	CAS-No.	Concentration
Copper and/or copper alloys and compounds	7440-50-8	90 - 100%
(as Cu)		

Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work:

Chemical name	CAS-No.	Concentration
Phosphorus	7723-14-0	1,0 - 10%

National Regulations



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Water Hazard Class

non-hazardous to water

(WGK):

INRS, maladies professionelles, table of work-related illnesses

Listed: 5

Α

15.2 Chemical safety

No Chemical Safety Assessment has been carried out.

assessment:

Inventory Status:

Australia AICS: On or in compliance with the inventory Canada DSL Inventory List: On or in compliance with the inventory On or in compliance with the inventory EINECS, ELINCS or NLP:

One or more components are not listed or are exempt from listing. Japan (ENCS) List:

China Inv. Existing Chemical Substances: On or in compliance with the inventory Korea Existing Chemicals Inv. (KECI): On or in compliance with the inventory

Canada NDSL Inventory: One or more components are not listed or are exempt from listing.

On or in compliance with the inventory Philippines PICCS: US TSCA Inventory: On or in compliance with the inventory New Zealand Inventory of Chemicals: On or in compliance with the inventory

Japan ISHL Listing: One or more components are not listed or are exempt from listing. Japan Pharmacopoeia Listing: One or more components are not listed or are exempt from listing.

On or in compliance with the inventory Mexico INSQ: Ontario Inventory: On or in compliance with the inventory Taiwan Chemical Substance Inventory: On or in compliance with the inventory

SECTION 16: Other information

Definitions:

References

PBT PBT: persistent, bioaccumulative and toxic substance. vPvB vPvB: very persistent and very bioaccumulative substance.

Key literature references and

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as

sources for data: amended.

Wording of the H-statements in section 2 and 3

H228 Flammable solid.

H400 Very toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

Other information: Additional information is available by request.

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Disclaimer:

The Lincoln Electric Company urges each end user and recipient of this SDS to study it carefully. See also www.lincolnelectric.com/safety. If necessary, consult an industrial hygienist or other expert to understand this information and safeguard the environment and protect workers from potential hazards associated with the handling or use of this product. This information is believed to be accurate as of the revision date shown above. However, no warranty, expressed or implied, is given. Because the conditions or methods of use are beyond Lincoln Electric's control, we assume no liability resulting from the use of this product. Regulatory requirements are subject to change and may differ between various locations. Compliance with all applicable Federal, State, Provincial, and local laws and regulations remain the responsibility of the user.

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Annex to the extended Safety Data Sheet (eSDS) Exposure Scenario:

Read and understand the "Recommendations for Exposure Scenarios, Risk Management Measures and to identify Operational Conditions under which metals, alloys and metallic articles may be safely welded", which is available from your supplier and at http://european-welding.org/health-safety.

Welding/Brazing produces fumes which can affect human health and the environment. Fumes are a varying mixture of airborne gases and fine particles which, if inhaled or swallowed, constitute a health hazard. The degree of risk will depend on the composition of the fume, concentration of the fume and duration of exposure. The fume composition is dependent upon the material being worked, the process and consumables being used, coatings on the work such as paint, galvanizing or plating, oil or contaminants from cleaning and degreasing activities. A systematic approach to the assessment of exposure is necessary, taking into account the particular circumstances for the operator and ancillary worker that can be exposed.

Considering the emission of fumes when welding, brazing or cutting of metals, it is recommended to (1) arrange risk management measures through applying general information and guidelines provided by this exposure scenario and (2) using the information provided by the Safety Data Sheet, issued in accordance with REACH, by the welding consumable manufacturer.

The employer shall ensure that the risk from welding fumes to the safety and health of workers is eliminated or reduced to a minimum. The following principle shall be applied:

- 1- Select the applicable process/material combinations with the lowest class, whenever possible.
- 2- Set welding process with the lowest emission parameter.
- 3- Apply the relevant collective protective measure in accordance with class number. In general, the use of PPE is taken into account after all other measures is applied.
- 4- Wear the relevant personal protective equipment in accordance with the duty cycle.

In addition, compliance with the National Regulations regarding the exposure to welding fumes of welders and related personnel shall be verified.