



# SAFETY DATA SHEET

According to Safe Work Australia

Printing date 16.07.2014

Revision: 16.07.2014

## 1 . IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

**Product Name: RBCuZn-D FLUX COATED BRAZING RODS (5% FLUX) - 211556**

**Recommended Use of the Chemical and Restriction on Use:**

Gas welding of brass, braze welding for copper, steel and cast iron, nickel and carbide alloys

**Details of Manufacturer or Importer:**

Primus Australia Pty Ltd  
3/20 Enterprise Drive  
Bundoora VIC 3083

**Phone Number:** 03 9468 4400

**Emergency telephone number:** National Poison Information Centre: 13 11 26

## 2 . HAZARDS IDENTIFICATION

**Hazardous Nature:**



health hazard

Carc. 2 H351 Suspected of causing cancer.

Repr. 1B H360 May damage fertility or the unborn child.

STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.



Skin Sens. 1 H317 May cause an allergic skin reaction.

**Label Elements**

**Signal Word** Danger

**Hazard Statements**

H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer.

H360 May damage fertility or the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure.

**Precautionary Statements**

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P272 Contaminated work clothing should not be allowed out of the workplace.

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P321 Specific treatment (see on this label).

P308+P313 IF exposed or concerned: Get medical advice/attention.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P314 Get medical advice/attention if you feel unwell.

P302+P352 IF ON SKIN: Wash with plenty of water.

P362+P364 Take off contaminated clothing and wash it before reuse.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national regulations.

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## 3 . COMPOSITION AND INFORMATION ON INGREDIENTS

**Chemical Characterisation: Substances****CAS No. Description**

7726-95-6

**Description:** Mixture of substances listed below with nonhazardous additions.**Hazardous Components:**

1303-96-4	Disodium tetraborate, decahydrate ⚠ Repr. 1B, H360	60%
7440-50-8	Copper	48%
7440-66-6	zinc	41.9%
10043-35-3	boric acid ⚠ Repr. 1B, H360	40%
7440-02-0	nickel ⚠ Carc. 2, H351; STOT RE 1, H372; ⚠ Skin Sens. 1, H317	10%
7440-21-3	silicon ⚠ Flam. Sol. 2, H228	0.1%

## 4 . FIRST AID MEASURES

**Inhalation:**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if breathing problems develop.

**Skin Contact:**

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms occur.

**Eye Contact:**

In case of eye contact, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention.

**Ingestion:**

If swallowed, seek immediate medical attention. Do not give anything by mouth to an unconscious person.

**Information for Doctor****Symptoms Caused by Exposure:**

Inhalation: Excessive inhalation of zinc oxide fumes may produce symptoms known as zinc shakes, an acute condition without recognised complications. Symptoms usually disappear within 24 hours.

## 5 . FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:** Water spray, carbon dioxide, foam and dry chemical.

**Specific Hazards Arising from the Chemical:**

Combustion products include hazardous and irritating fumes of the constituent metals or their oxides and / or fluorides.

The molten material presents a thermal hazard.

This product is non-flammable and non-explosive.

**Special Protective Equipment and Precautions for Fire Fighters:**

Wear Safe Work Australia approved self-contained breathing apparatus and full protective clothing.

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## 6 . ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment and Emergency Procedures:**

Wear Safe Work Australia approved respiratory protection, welder's gloves, protective clothing, apron, hat and safety boots. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation.

**Environmental Precautions:**

In the event of a major spill, prevent spillage from entering drains or water courses.

**Methods and Materials for Containment and Cleaning Up:**

Small chips and turnings pick up mechanically. Use vacuum equipment with HEPA filters for accumulated dust. Collect in suitable containers for subsequent disposal.

## 7 . HANDLING AND STORAGE

**Precautions for Safe Handling:**

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of fumes or dust. Use only in a well-ventilated area.

Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

**Conditions for Safe Storage:**

Store in a cool, dry and well ventilated area. Protect from extreme temperatures. Keep away from strong oxidising agents and some halogenated compounds.

## 8 . EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Exposure Standards:****7440-02-0 nickel**

NES TWA: 1\* 0.1\*\* mg/m<sup>3</sup>  
Sen;\*metal;\*\*soluble comp. (as Ni)

**7440-50-8 Copper**

NES TWA: 1\* 0.2\*\* mg/m<sup>3</sup>  
\*dust&mists \*\*fume

**1314-13-2 zinc oxide**

NES STEL: 10\*\* mg/m<sup>3</sup>  
TWA: 10\* 5\*\* mg/m<sup>3</sup>  
\*dust \*\*fume

**Engineering Contols:**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapour below occupational exposure standards.

**Personal Protective Equipment (PPE):****Respiratory Protection:**

Use a Safe Work Australia approved respirable fume respirator or air supplied respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapour, inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible.

For maximum safety wear a respirator at all times when welding or brazing.

See Australian Standards AS/NZS 1715 and 1716 for more information

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**Skin Protection:**

Leather/pigskin, aramid blend, terrycord or cotton blend gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information.

Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

**Eye and Face Protection:**

Eye and face protectors for protection against molten metal and hot solids (face-shields or wire-mesh screens complying with the requirements for medium impact protectors). See Australian/New Zealand Standard AS/NZS 1337 for more information.

## 9 . PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:**

<b>Form:</b>	Metal rods
<b>Colour:</b>	No information available
<b>Odour:</b>	Odourless
<b>Odour Threshold:</b>	Not determined.
<b>pH-Value:</b>	Not applicable.
<b>Melting point/Melting range:</b>	No information available
<b>Initial Boiling Point/Boiling Range:</b>	No information available
<b>Flash Point:</b>	Not applicable.
<b>Flammability:</b>	Non flammable
<b>Auto-ignition Temperature:</b>	Not applicable
<b>Decomposition Temperature:</b>	No information available
<b>Explosion Limits:</b>	
<b>Lower:</b>	Not applicable
<b>Upper:</b>	Not applicable
<b>Vapour Pressure:</b>	Not applicable.
<b>Density:</b>	Not determined.
<b>Relative Density:</b>	No information available
<b>Vapour Density:</b>	Not applicable.
<b>Evaporation Rate:</b>	Not applicable.
<b>Solubility in Water:</b>	Insoluble

## 10 . STABILITY AND REACTIVITY

**Possibility of Hazardous Reactions:** Hazardous polymerisation will not occur.

**Chemical Stability:** Stable at ambient temperature and under normal conditions of use.

**Conditions to Avoid:** Protect from extreme temperatures.

**Incompatible Materials:**

Strong acids; chlorates; bromates; iodates; halogens; chlorofluorocarbons; ammonium nitrate; chlorinated and brominated hydrocarbons; nitrogen oxides; sulfur dioxide; organic and inorganic peroxides; cesium and rubidium carbides; cobalt fluoride; iodine pentafluoride; manganese trifluoride; nitrosyl fluoride; silver fluoride; acetic anhydride; alkali and alkali earth metals; zirconium; platinum; bromine trifluoride.

**Hazardous Decomposition Products:** Fumes of the constituent metals or their oxides and / or fluorides.

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## 11 . TOXICOLOGICAL INFORMATION

**Toxicity:****Acute Health Effects****Inhalation:**

Inhalation of copper oxide and zinc oxide fumes cause irritation to nose and throat and metallic taste in mouth, and cause metal fume fever. Inhalation of large amounts of particulates generated during brazing operations can cause pneumoconiosis (lung disease).

**Skin:**

Fumes generated during brazing operations may cause skin irritation. Contact with the molten material may cause skin burns.

**Eye:**

Fumes generated during brazing operations may cause eye irritation. Contact with the molten material may cause eye burns.

**Ingestion:** May cause gastrointestinal irritation.

**Skin Corrosion / Irritation:** Based on classification principles, the classification criteria are not met.

**Serious Eye Damage / Irritation:** Based on classification principles, the classification criteria are not met.

**Respiratory or Skin Sensitisation:** May cause an allergic skin reaction.

**Germ Cell Mutagenicity:** Based on classification principles, the classification criteria are not met.

**Carcinogenicity:**

Suspected of causing cancer.

Nickel, metallic and alloys is classified by IARC as Group 2B - Possibly carcinogenic to humans.

**Reproductive Toxicity:**

May damage fertility or the unborn child.

Boric acid and disodium tetraborate decahydrate (Borax decahydrate) are classified by Safe Work Australia as Toxic to Reproduction Category 2.

**Specific Target Organ Toxicity (STOT) - Single Exposure:**

Based on classification principles, the classification criteria are not met.

**Specific Target Organ Toxicity (STOT) - Repeated Exposure:**

Causes damage to organs through prolonged or repeated exposure.

**Aspiration Hazard:** Based on classification principles, the classification criteria are not met.

**Chronic Health Effects:**

Chronic overexposure to copper dust may cause tiredness, vomiting and diarrhoea, discolouration of the skin and eyes, and kidney and liver disorder.

Long-term inhalation of nickel oxides is damaging to the lungs, causing lesions and in some cases cancer.

**Existing Conditions Aggravated by Exposure:** Skin, kidney, liver and respiratory disorders.

## 12 . ECOLOGICAL INFORMATION

**Ecotoxicity:**

The components of these products occur naturally in the environment and are not expected to cause adverse effects on plant or animal life.

**Aquatic toxicity:** No information available

**Persistence and Degradability:** No information available

**Bioaccumulative Potential:** No information available

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**Mobility in Soil:** No information available

## 13 . DISPOSAL CONSIDERATIONS

**Disposal Methods and Containers:** Dispose according to applicable local and state government regulations.**Special Precautions for Landfill or Incineration:**

Please consult your state Land Waste Management Authority for more information.

## 14 . TRANSPORT INFORMATION

**UN Number** Not regulated**Proper Shipping Name** Not regulated**Dangerous Goods Class** Not regulated**Packing Group:** Not regulated**Marine pollutant:** Yes

## 15 . REGULATORY INFORMATION

**Australian Inventory of Chemical Substances:**

7440-50-8	Copper
10043-35-3	boric acid
7440-66-6	zinc
1303-96-4	Disodium tetraborate, decahydrate
7440-02-0	nickel
7440-21-3	silicon

## 16 . OTHER INFORMATION

**Creation Date:** 27.06.2014**Prepared by:** MSDS.COM.AU Pty Ltd[www.msds.com.au](http://www.msds.com.au)**Abbreviations and acronyms:**

ADG: Australian Dangerous Goods

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

**Disclaimer**

This MSDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - December 2011"

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