

Date of issue: 20 August 2020  
Revised by: Simonne Moses - HSNO Consultant SDS No: 1.1

# Safety Data Sheet

## 4527 Copper Weld Thru Primer

Classified as: Hazardous according to the EPA Hazardous Substances  
(Minimum Degrees of Hazard) Notice 2017.

### Section 1: SUBSTANCE AND SUPPLIER DETAILS

**Product Name:** 4527 Copper Weld Thru Primer

**Supplier:** RA Johnstone & Co Ltd trading as  
RJP Performance Coatings  
33 Ha Crescent,  
Wiri, Auckland 2104  
New Zealand

**Phone:** +64 9 25000 91

**Recommended Use:** Primer

**In Case of Emergency Contact:**

CHEMCALL: 0800 CHEMCALL (243 622)

### Section 2: HAZARDS IDENTIFICATION

Classified as a Dangerous Good for Transport.

Classified as hazardous according to criteria in the EPA Hazardous Substances (Minimum Degrees of Hazards) Notice 2017.

Classified under the group standard "Aerosols (Flammable, Toxic [6.7]) Group Standard 2017"

HSNO APPROVAL NUMBER: **HSR002517**

HSNO CLASSIFICATIONS: 2.1.2A – Flammable aerosol  
6.1D – Acutely toxic, oral  
6.1D – Acutely toxic, inhalation  
6.3A – Skin irritant  
6.4A – Eye irritant  
6.5B – Contact sensitiser  
6.6A – Known or presumed human mutagen  
6.7A – Known or presumed human carcinogen  
6.8B – Suspected reproductive or developmental toxicant  
6.9B – Harmful to human target organs or systems  
9.1A – Very ecotoxic in the aquatic environment  
9.3C – Harmful to terrestrial vertebrates

GHS Classification: Flammable aerosol – Category 1  
Acute toxicity, oral – Category 4  
Acute toxicity, inhalation – Category 4  
Skin corrosion/irritation – Category 2  
Serious eye damage/irritation – Category 2

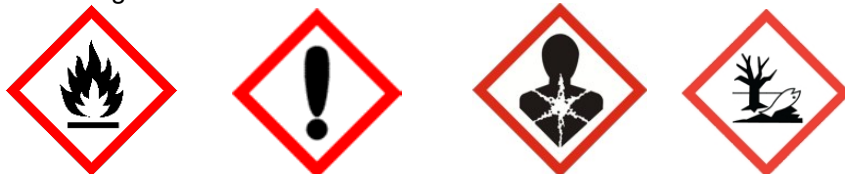
Skin sensitisation – Category 1  
Germ cell mutagenicity – Category 1B  
Carcinogenicity – Category 1B  
Reproductive toxicity – Category 2  
Specific target organ systemic toxicity (repeated exposure)– Category 2  
Aquatic toxicity (chronic) – Category 1

Note: There is no GHS equivalent for terrestrial vertebrate toxicity.

#### Hazard Statements:

H222 Extremely flammable aerosol  
H302 Harmful if swallowed  
H332 Harmful if inhaled  
H315 Causes skin irritation  
H319 Causes serious eye irritation  
H317 May cause an allergic skin reaction  
H340 May cause genetic defects  
H350 May cause cancer  
H361 Suspected of damaging fertility or the unborn child  
H373 May cause damage to organs through prolonged or repeated exposure  
H410 Very toxic to aquatic life with long-lasting effects.  
H433 Harmful to terrestrial vertebrates

#### GHS Pictograms:



## DANGER

#### PREVENTION STATEMENTS:

P102 – Keep out of reach of children.  
P103 – Read label before use.  
P201 – Obtain special instructions before use.  
P202 – Do not handle until all safety precautions have been read and understood.  
P210 – Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
P211 – Do not spray on an open flame or other ignition source.  
P251 – Pressurised container: do not pierce or burn, even after use.  
P260 – Do not breathe aerosol spray.  
P264 – Wash hands, exposed skin, thoroughly after handling.  
P270 – Do not eat, drink or smoke when using this product.  
P271 – Use only outdoors or in a well-ventilated area.  
P272 – Contaminated work clothing should not be allowed out of the workplace.  
P273 – Avoid release to the environment.  
P280 – Wear protective gloves, protective clothing, eye protection, face protection.  
P281 – Use personal protective equipment as required.

#### RESPONSE STATEMENTS:

P101 – If medical advice is needed, have product container or label at hand.  
P301 + P312 – IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P330 – Rinse mouth.  
P304 + P340 – IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.  
P312 – Call a POISON CENTER or doctor/physician if you feel unwell.  
P302 + P352 – IF ON SKIN: Wash with plenty of soap and water.

P321 – (No specific treatment required)  
P333 + P313 – IF skin irritation or rash occurs: Get medical advice/attention.  
P362 – Take off contaminated clothing and wash before re-use.  
P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313 – IF eye irritation persists: Get medical advice/attention.  
P308 + P313 – If exposed or concerned: Get medical advice/attention.  
P391 – Collect spillage.

#### STORAGE

P410 + P412 – Protect from sunlight. Do not expose to temperatures exceeding 50°C.  
P405 – Store locked up.

#### DISPOSAL

P501 - In accordance with the EPA Hazardous Substances (Disposal) Notice 2017. Refer to Section 13 of this SDS.

#### Additional Information:

Beware: Deliberately sniffing or inhaling concentrated contents can be harmful or fatal.

### Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Main Component	CAS Number	Concentration
Propane/Isobutane/n-butane	68476-86-8	30 – 40%
Methyl Acetate	79-20-9	20 - 30%
Butyl Acetate	123-86-4	10 - 20%
Toluene	108-88-3	10 – 20%
Acetone	67-64-1	1 – 10%
Copper Powder	7440-50-8	1 – 10%
Zinc Powder	7440-66-6	1 – 10%
Xylene	1330-20-7	0.1 – 1%
Ethyl Benzene	100-41-4	0.1 – 1%

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Note: If Chemical Name/CAS No is "proprietary" or "trade secret and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret as it is commercially sensitive.

### Section 4: FIRST AID MEASURES

**Workplace Facilities Required:** Eye wash and safety shower facilities should be provided.

**If Inhaled:** Remove to fresh air. Seek medical attention if symptoms persist.

**In Contact with Eye:** Hold eyes open, flush with water for at least 15 minutes. Seek medical attention if irritation develops and persists.

**In Contact with Skin:** Wash skin with plenty of water, while removing contaminated clothing and shoes. Wash contaminated clothing before re-use. Seek medical attention if skin irritation or rash develops and persists.

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**If Swallowed:** DO NOT INDUCE VOMITING. Rinse mouth. Give small quantities of water. Never give anything by mouth to an unconscious person. Seek immediate medical attention. If vomiting occurs, keep head below hips to prevent aspiration to lungs.

**Advice to Doctor:** Treat symptomatically.

## Section 5: FIRE FIGHTING MEASURES

**Fire/Explosion Hazard:** Product is highly flammable. Aerosol cans may explode when heated.

**Suitable Extinguishing Media:** Cool containers using water spray. Do not use water jet. Extinguish fire with carbon dioxide, alcohol resistant foam or dry powder.

**Precautions in Connection with Fire:** Combustion may produce oxides of carbon.

**Advice for firefighters:** Wear full firefighting gear and self-contained breathing apparatus.

## Section 6: ACCIDENTAL RELEASE MEASURES

**An emergency response plan is required under Part 5 of the Health and Safety at Work (Hazardous Substances) Regulations 2017 when held in quantities greater than 3,000L aggregate water capacity.**

**Precautions:** Clear area of all unprotected personnel. Keep unnecessary and unprotected personnel from entering area. Eliminate all sources of ignition. Avoid release to drains/waterways.

**Suitable Protective Equipment:** Emergency responders should use eye protection, protective clothing, hand protection and, where there is a risk of inhaling vapours, respiratory protection.

**Spill or Leak Procedures.** Remove aerosol can to an open area away from ignition sources and waterways where it can discharge safely. Any liquid spill can be absorbed with inert, non-combustible material. Place contaminated absorbent material in a labelled waste container for disposal.

**Waste Disposal Methods:** Dispose of as per Section 13.

**Emergency preparation:** Ensure there is appropriate and adequate personal protective equipment, trained personnel and clean up materials for management of accidental release.

## Section 7: HANDLING AND STORAGE

**Precautions for Safe Handling:** Avoid contact with skin and eyes. Do not breathe aerosol spray. Use in a well-ventilated area or outdoors. Do not eat, drink or smoke when using this product. Remove contaminated clothing and wash hands and face before entering eating areas. Keep away from ignition sources, heat and direct sunlight. Do not

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puncture or cut aerosol cans. Keep away from waterways, drains, etc.

**Storage:** Keep out of direct sunlight. Do not expose to temperatures exceeding 50°C. Store in a well-ventilated area. Store locked up.

**Site Storage Requirements:** Site Signage will be required when quantities exceed 3,000L aggregate water capacity.

## Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

**Workplace Exposure Standards NZ:** No Workplace Exposure Standards have been established for this product but have been established for the following constituents:

Toluene – TWA 50 ppm, 188 mg/m<sup>3</sup>  
Acetone – TWA 500 ppm, 1,185 mg/m<sup>3</sup>, STEL 1,000 ppm, 2,375 mg/m<sup>3</sup>  
Xylene – TWA 50 ppm, 217 mg/m<sup>3</sup>  
Ethyl Benzene – TWA 100 ppm, 434 mg/m<sup>3</sup>, STEL 125 ppm, 543 mg/m<sup>3</sup>  
Methyl Acetate – TWA 200 ppm, 606 mg/m<sup>3</sup>, STEL 250 ppm, 757 mg/m<sup>3</sup>  
Butyl Acetate – TWA 150 ppm, 713 mg/m<sup>3</sup>, STEL 200 ppm, 950 mg/m<sup>3</sup>  
Butane – TWA 800 ppm, 1900 mg/m<sup>3</sup>  
Copper (dust, mists) – TWA 1 mg/m<sup>3</sup>  
Zinc (dust) – TWA 10 mg/m<sup>3</sup>

**Engineering Controls:** Eyewash facilities and safety showers should be provided in the work area where there is a risk of exposure to eyes and skin. If use results in exposure to aerosol sprays, use engineering controls such as local exhaust ventilation to ensure workers are not exposed to concentrations that exceed workplace exposure standards.

**Personal Protective Equipment:** Avoid contact with the skin and eyes. Avoid inhaling aerosol sprays.

**Hand protection:** Wear gloves that are resistant to the product. Refer to Australian and New Zealand Standard AS/NZS 2161 for protective gloves.

**Skin and body protection:** Overalls may be required if handling for prolonged periods and use may result in skin contact. Refer to Australian and New Zealand Standard AS/NZS 4501 for occupational protective clothing.

**Eye protection:** Use chemical safety glasses with side shields or chemical goggles to protect eyes. Refer to AS/NZS 1336 for suitable eye and face protection.

**Respiratory protection:** Where there is inadequate ventilation, and use results in exposure to aerosol sprays, use a respirator fitted with a solvent vapour cartridge. Refer to AS/NZS 1715 and AS/NZS 1716 for suitable respiratory protection.

**Other information:** PPE selected must be impervious to the substance. Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating, drinking or smoking. Handle in accordance with safe industrial hygiene practices.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

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<b>Description:</b>	Aerosol	<b>Colour:</b>	Copper
<b>Odour:</b>	Solvent	<b>Odour Threshold:</b>	Not determined
<b>pH:</b>	Not determined	<b>Solubility (water, 25°C):</b>	Insoluble
<b>Melting/Freezing point:</b>	Not determined	<b>Boiling Point:</b>	Not determined
<b>Flammability:</b>	Highly flammable	<b>Flash Point:</b>	-96.4°C (propellant)
<b>LEL/UEL:</b>	Not determined	<b>Vapour Pressure (20°C):</b>	Not determined
<b>Decomposition Temp:</b>	Not determined	<b>Auto-Ignition Temp:</b>	Not self-igniting
<b>Relative Density:</b>	0.846 (Water =1)	<b>Evaporation Rate (nButyl Acetate =1):</b>	Not applicable
<b>Partition Coefficient: n-octanol/water</b>	Not determined	<b>Viscosity:</b>	Not determined
<b>Vapour Density:</b>	Not determined	<b>VOC:</b>	54.66%

## Section 10: STABILITY AND REACTIVITY

<b>Stability:</b>	Stable under normal cool, dry storage conditions. Protect from heat.
<b>Reactivity:</b>	Not reactive under normal conditions of use.
<b>Conditions to Avoid:</b>	Heat, sparks, open flames and other sources of ignition. Store out of direct sunlight. Storage temperatures not to exceed 50°C.
<b>Incompatibility:</b>	Keep away from oxidising agents, strong acids, strong alkalis, combustible products such as paper, wood, cardboard.
<b>Hazardous Decomposition:</b>	May form oxides of carbon on heating.

## Section 11: TOXICOLOGICAL INFORMATION

### Acute Exposure

<b>Acute Toxicity:</b>	LD50 oral > 300 - < 2000 mg/kg LD50 dermal > 5000 mg/kg LC50 inhalation > 1 - 5 mg/L (spray)
<b>Inhalation:</b>	Harmful if inhaled.
<b>Ingestion:</b>	Harmful if swallowed.
<b>Skin Contact:</b>	Skin irritant.
<b>Eye Contact:</b>	Eye irritant.
<b>Sensitiser:</b>	Product is a contact sensitiser and may cause an allergic reaction.

### Chronic Exposure:

<b>Mutagen/Carcinogen/Reproductive Toxicant</b>	Known or presumed to cause genetic defects and cancer. Suspected reproductive or developmental toxicant.
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Specific Target Organ Systemic

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**Toxicity:** Harmful to human target organs or systems through prolonged or repeated exposure.

Toxicity data is based on hazardous ingredient information and information in the EPA Chemical Classification and Identification Database.

## Section 12: ECOLOGICAL INFORMATION

**Ecotoxicity:**  $LC_{50} \leq 1$  mg/L in the aquatic environment.

Product is very ecotoxic in the aquatic environment and harmful to terrestrial vertebrates. Avoid losses to the environment.

**Persistence/degradability:** No data.

**Bioaccumulation:** No data.

**Mobility:** Product is insoluble in water.

Ecotoxicity data is based on hazardous ingredient information.

## Section 13: DISPOSAL CONSIDERATIONS

**Disposal:** Dispose of partially empty aerosol cans via an approved waste disposal contractor. Keep product away from drains/waterways.

**Disposal of Packaging:** Empty aerosols may still contain flammable vapours and should be treated as hazardous. Do not puncture or incinerate. Dispose of packaging via an approved waste disposal contractor.

## Section 14: TRANSPORT INFORMATION

Classified as a Dangerous Good for transport in accordance with NZS5433:2012, IMDG or IATA.



NZS5433:2012

UN No: 1950

Proper Shipping Name: Aerosols, flammable (not exceeding 1L capacity)

Class: 2.1

Packing Group: N/A

IMDG:

UN No: 1950

Proper Shipping Name: Aerosols, flammable (not exceeding 1L capacity)

Class: 2.1

Packing Group: N/A

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Marine Pollutant: No  
EmS: F-D, S-U

IATA:  
UN No: 1950  
Proper Shipping Name: Aerosols, flammable (not exceeding 1L capacity)  
Class: 2.1  
Packing Group: N/A

Ensure transportation methods prevent leakage from packages and collapsing loads.

## Section 15: REGULATORY INFORMATION

**Group Standard Allocation:** Aerosols (Flammable, Toxic [6.7]) Group Standard 2017

**HSNO Approval Code:** HSR002517

**HSNO Classifications:**

2.1.2A	Flammable aerosol
6.1D	Acutely toxic, oral
6.1D	Acutely toxic, inhalation
6.3A	Skin irritant
6.4A	Eye irritant
6.5B	Contact sensitiser
6.6A	Known or presumed human mutagen
6.7A	Known or presumed human carcinogen
6.8B	Suspected reproductive or developmental toxicant
6.9B	Harmful to human target organs or systems
9.1A	Very ecotoxic in the aquatic environment
9.3C	Harmful to terrestrial vertebrates

**This substance triggers:**

Compliance Certificate	3,000L aggregate water capacity
Certified Handler	N/A
Quantity that must be secured	3,000L aggregate water capacity
Emergency Response Plan	3,000L aggregate water capacity
Secondary Containment	3,000L aggregate water capacity
Signage	3,000L aggregate water capacity
Fire Extinguishers	1 required for quantities > 3,000L aggregate water capacity

This substance is not required to be Tracked. All workplace personnel handling this substance are required to be trained on the safe handling and PPE requirements for the hazards associated with this substance.

**NZIOC:** All hazardous ingredients are listed in the NZ Inventory of Chemicals.

## Section 16: OTHER INFORMATION

The information provided in this Safety Data Sheet relates only to the specific material designated herein. This Safety Data Sheet summarises our best knowledge of the health and safety hazard information of the product and



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how to safely handle the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including its use in conjunction with other products.

This substance is approved under HSNO for use as a surface coating treatment. All reasonable care has been taken to ensure that the information and advice contained herein are from sources believed to be reliable and to represent the most up-to-date knowledge available at the date given in Section 16. No liability is assumed for any damages related to the use or misuse of this substance.

All chemical materials may present unknown hazards as people have varying degrees of sensitivity to chemicals. Therefore, this product should be used with caution. The information herein is given in good faith, but no warranty, express or implied is made.

SDS Issued: 20/8/2020

Reason for Revision: Update to New Zealand regulatory requirements.

Note: This SDS has been derived from an American SDS which is compliant with US regulatory requirements.

References:

EPA NZ Chemical Classification and Information Database

ECHA European Classification Database

EPA Guide: Assigning a Hazardous Substance to a Group Standard, 2014

Supplier SDS: International Epoxies and Sealers, 4527 Copper Weld Thru Primer, September 2015

**END OF SAFETY DATA SHEET**