



Safety Data Sheet

according to WHS Regulations

Printing date 24.04.2017

Revision: 24.04.2017

1 Identification

Product Name: SILVER BRAZING FLUX**Other Means of Identification:** Mixture**Other Name:** Silver Brazing Paste Flux, AWS A5.31**Part Number:** 228478**Recommended Use of the Chemical and Restriction on Use:**

For welding consumables and related products.

Details of Manufacturer or Importer:

Primus Australia Pty Ltd trading as Companion Brands.

3/20 Enterprise Drive,
Bundoora VIC 3083**Phone Number:** 03 9468 4400**Emergency telephone number:** National Poison Information Centre: 13 11 26

2 Hazard(s) Identification

Hazardous Nature:

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)



skull and crossbones

Acute Toxicity (Oral) 3

H301

Toxic if swallowed.



health hazard

Toxic To Reproduction 1B

H360FD

May damage fertility. May damage the unborn child.



Skin Corrosion/Irritation 2

H315

Causes skin irritation.

Serious Eye Damage/Irritation 2A

H319

Causes serious eye irritation.

STOT SE 3

H335

May cause respiratory irritation.

Signal Word Danger**Hazard Statements**

H301 Toxic if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H360FD May damage fertility. May damage the unborn child.

H335 May cause respiratory irritation.

Precautionary Statements

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.

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

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P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321	Specific treatment (see on this label).
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P330	Rinse mouth.
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.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container in accordance with local/regional/national regulations.

3 Composition and Information on Ingredients

Chemical Characterization: Mixtures
Description: Mixture of substances listed below with nonhazardous additions.

Hazardous Components:

10043-35-3	Boric acid ☠ Toxic To Reproduction 1B, H360FD	30 - 45%
12228-71-6	Potassium fluorohydroborate ☠ Acute Toxicity (Oral) 3, H301; ☠ Skin Corrosion/Irritation 2, H315; Serious Eye Damage/Irritation 2A, H319; STOT SE 3, H335	20 - 40%
1332-77-0	Boric acid (H ₂ B ₄ O ₇), dipotassium salt ☠ Toxic To Reproduction 2, H361; ☠ Serious Eye Damage/Irritation 2A, H319; STOT SE 3, H335	15 - 25%
14075-53-7	Potassium tetrafluoroborate ☠ Acute Toxicity (Oral) 4, H302; Skin Corrosion/Irritation 2, H315; Serious Eye Damage/Irritation 2A, H319	7 - 15%

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 for at least 15 minutes. Seek medical attention if symptoms occur.

Eye Contact:

In case of eye contact, hold eyelids open and rinse with water for at least 15 minutes. Seek medical attention if symptoms occur.

Ingestion:

If swallowed, do not induce vomiting. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

Symptoms Caused by Exposure:

Inhalation: May cause irritation to the nose, throat and lungs.

May cause headache, dizziness, difficulty breathing and chest pain.

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Some gases released during welding may cause pulmonary oedema, asphyxiation or death.
 Excessive inhalation of fumes may cause 'metal fume fever'. Symptoms include chills, fever, aches, sweating, vomiting and other flu-like symptoms.
 Skin Contact: Causes skin irritation. May cause an allergic skin reaction.
 Eye Contact: Causes serious eye irritation and watering.
 Ingestion: Toxic if swallowed. May cause headache, dizziness, difficulty breathing and chest pain.

5 Fire Fighting Measures

Suitable Extinguishing Media: Use fire extinguishing methods suitable to surrounding conditions.

Specific Hazards Arising from the Chemical:

Fire may produce toxic or irritating fumes.
 Product is not flammable.
 Containers close to fire should be removed if safe to do so.

Special Protective Equipment and Precautions for Fire Fighters:

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

6 Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear suitable protective clothing. Do not breathe dust. Ensure adequate ventilation. Avoid generating dust.

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:

Stop leak if safe to do so and scoop up spilled material or wipe up with clean rag or paper towel. Collect the spilled material and place into a suitable container for 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 vapours or dust.
 Use only outdoors or 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. Contaminated work clothing must not be allowed out of the workplace. 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 heat, sparks and open flames.

8 Exposure controls and personal protection

Exposure Standards:

14075-53-7 Potassium tetrafluoroborate

WES	TWA: 2.5 mg/m ³ as F
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Engineering Controls:

Maintain air concentration below occupational exposure standards, providing adequate ventilation.

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Respiratory Protection:

Where an inhalation risk exists, wear a Class P1 (particulate) respirator. At high dust levels, wear a powered air purifying respirator (PAPR) with Class P3 (Particulate) filter or an air-line respirator or a full-face Class P3 (particulate) respirator. See Australian/New Zealand Standards AS/NZS 1715 and 1716 for more information.

Skin Protection:

Welding gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information. When selecting hand protection, the product should comply with relevant performance criteria. For example, gloves should meet a suitable level of abrasion resistance to provide protection against hazards of a workplace.

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: Helmet or face shield with appropriate filter.

9 Physical and Chemical Properties

Appearance:

Form: Paste

Colour: White

Odour: Odourless

Odour Threshold: No information available

pH-Value: No information available

Melting point/freezing point: 500 °C

Initial Boiling Point/Boiling Range: No information available

Flash Point: No information available

Flammability: Product is not flammable.

Auto-ignition Temperature: No information available

Decomposition Temperature: No information available

Explosion Limits:

Lower: No information available

Upper: No information available

Vapour Pressure: No information available

Relative Density: No information available

Vapour Density: No information available

Evaporation Rate: No information available

Solubility in Water: No information available

Partition Coefficient (n-octanol/water): No information available

Viscosity: No information available

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: No further relevant information available.

Incompatible Materials: No further relevant information available.

Hazardous Decomposition Products:

Various welding fumes will be generated during use. The composition of welding fumes will depend on the circumstances of use, but can be expected to include oxides of carbon, nitrogen, boron, iron, manganese, silicon, chromium and copper. Ozone may be generated in some circumstances. Some products may also contain antimony, barium, molybdenum, niobium, strontium, tungsten or zirconium.

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11 Toxicological Information

Toxicity:**LD₅₀/LC₅₀ Values Relevant for Classification:****10043-35-3 Boric acid**Oral LD₅₀ >2660 mg/kg (rat)**12228-71-6 Potassium fluoroborohydroborate**Oral LD₅₀ 5854 mg/kg (rat)**1332-77-0 Boric acid (H₂B₄O₇), dipotassium salt**Oral LD₅₀ >2500 mg/kg (rat)**10043-35-3 Boric acid**Oral LD₅₀ >2660 mg/kg (rat)**Acute Health Effects****Inhalation:**

May cause irritation to the nose, throat and lungs.

May cause headache, dizziness, difficulty breathing and chest pain.

Some gases released during welding may cause pulmonary oedema, asphyxiation or death.

Excessive inhalation of fumes may cause 'metal fume fever'. Symptoms include chills, fever, aches, sweating, vomiting and other flu-like symptoms.

Skin: Causes skin irritation. May cause an allergic skin reaction.**Eye:** Causes serious eye irritation and watering.**Ingestion:** Toxic if swallowed. May cause headache, dizziness, difficulty breathing and chest pain.**Skin Corrosion / Irritation:** Causes skin irritation.**Serious Eye Damage / Irritation:** Causes serious eye irritation.**Respiratory or Skin Sensitisation:** Based on classification principles, the classification criteria are not met.**Germ Cell Mutagenicity:** Based on classification principles, the classification criteria are not met.**Carcinogenicity:** This product does NOT contain any IARC listed chemicals.**Reproductive Toxicity:** May damage fertility or the unborn child.**Specific Target Organ Toxicity (STOT) - Single Exposure:** May cause respiratory irritation.**Specific Target Organ Toxicity (STOT) - Repeated Exposure:**

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

Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Toxic

Irritant

12 Ecological Information

Ecotoxicity:**Aquatic toxicity:****10043-35-3 Boric acid**LC₅₀/96 h 279 mg/L (fish)EC₅₀/48 h 133 mg/L (daphnia)

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1332-77-0 Boric acid (H₂B₄O₇), dipotassium salt	
EC ₅₀ /96 h	133 mg/L (carp)
LC ₅₀ /96 h	280 mg/L (rainbow trout)

Persistence and Degradability: No further relevant information available.**Bioaccumulative Potential:** Bioaccumulation is not expected to occur.**Mobility in Soil:** No further relevant information available.**Other adverse effects:** No further relevant 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

15 Regulatory information

Australian Inventory of Chemical Substances:	
10043-35-3	Boric acid
1332-77-0	Boric acid (H ₂ B ₄ O ₇), dipotassium salt
14075-53-7	Potassium tetrafluoroborate

Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:

Poisons Schedule: 5

16 Other information

Date of Preparation or Last Revision: 24.04.2017**Prepared by:** MSDS.COM.AU Pty Ltdwww.msds.com.au**Abbreviations and acronyms:**

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

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

LC₅₀: Lethal concentration, 50 percentLD₅₀: Lethal dose, 50 percent

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)

Acute Toxicity (Oral) 3: Acute toxicity – Category 3

Acute Toxicity (Oral) 4: Acute toxicity – Category 4

Skin Corrosion/Irritation 2: Skin corrosion/irritation – Category 2

Serious Eye Damage/Irritation 2A: Serious eye damage/eye irritation – Category 2A

Toxic To Reproduction 1B: Reproductive toxicity – Category 1B

Toxic To Reproduction 2: Reproductive toxicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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Disclaimer

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