

Jinhua Beiduo Import & Export Co.,Ltd. Tel:86-579-83533866Fax:86-579-83533811

Email: info@jhbeiduo.com www.beiduoalloys.com

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Safety Data Sheet

To the Purchaser: This SDS contains important environmental, health, and toxicology information for your employees who have ordered this product. Please be sure this information is given to them. If you resell this product, a copy of the SDS should be given to the buyer.

1.Supplier and product

Jinhua Beiduo Import & Export Co., Ltd. Address: #2999 Binhong West Road, Jinhua, Zhejiang, China Telephone: 86-579-83533866 83533877 Fax:86-579-83533811 Emergency Phone Number: +86-579-83533866 / mobile: +86-13388668333

Product: Copper brazing flux powder
Model: CJ301
Product Use(s): flux products, for copper / steel brazing with copper alloy brazing material together.
CAS Number: N/A
Chemical Name: N/A

2.Hazards identification

2.1GHS Classification:

Acute toxicity (oral), Category 4H302Skin corrosion/irritation, Category 1BH314Reproductive toxicity, Category 1BH360Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

May damage fertility or the unborn child. Harmful if swallowed. Causes severe skin burns and eye damage.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP)



Signal word (CLP) : Hazardous ingredients : Hazard statements (CLP) :

Danger boric acid; potassium bifluoride, potassium hydrogen difluoride; Boron H302 - Harmful if swallowed

H314 - Causes severe skin burns and eye damage

P201 - Obtain special instructions before use

H360 - May damage fertility or the unborn child

Precautionary statements (CLP) :

- P202 Do not handle until all safety precautions have been read and understood
- P260 Do not breathe fume, vapours
- P264 Wash hands, forearms and face thoroughly after handling
- P270 Do not eat, drink or smoke when using this product
- P280 Wear protective gloves, eye protection, face protection, protective clothing
- P301+P312 IF SWALLOWED: Call a POISON CENTER if you feel unwell
- P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting

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P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P308+P313 - IF exposed or concerned: Get medical advice/attention P310 - Immediately call a doctor P330 - Rinse mouth P405 - Store locked up P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

2.3. Other hazards

Other hazards not contributing to the classification: None under normal conditions.

3. Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
boric acid substance listed as REACH Candidate	(CAS No) 10043-35-3 (EC no) 233-139-2 (EC index no) 005-007-00-2	65-75	Repr. 1B, H360FD
Borax	(CAS No) 1303-96-4	25-35	Acute Tox. 4 (Oral), H302

Full text of H-statements: see section 16

4. First aid measures

4.1. Description of first aid measures

First-aid measures general : Get immediate medical advice/attention.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention.

First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Get immediate medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. Get immediate medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Get immediate medical advice/attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : May cause respiratory irritation.

Symptoms/injuries after skin contact : Burns.

Symptoms/injuries after eye contact : Serious damage to eyes.

Symptoms/injuries after ingestion : Burns.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5 Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Use extinguishing media appropriate for surrounding fire.

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5.2. Special hazards arising from the substance or	mixture
Fire hazard :	The product is not flammable.
Explosion hazard :	Product is not explosive.
Reactivity in case of fire :	Not known.
Hazardous decomposition products in case of fire:	Toxic fumes may be released.
5.3. Advice for firefighters	
Precautionary measures fire :	No special measures required.
Firefighting instructions :	Use extinguishing media appropriate for surrounding fire.
Protection during firefighting :	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

6 Accidental release measures

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid release to the environment.

6.1.1. For non-emergency personnel

Protective equipment : Wear suitable protective clothing, gloves and eye or face protection.

Emergency procedures : Only qualified personnel equipped with suitable protective equipment may intervene. Ventilate spillage area. Do not breathe fume, vapours. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". Avoid contact with skin and eyes.

Do not breathe smokes, Vapours. Wear suitable protective clothing, gloves and eye or face protection. Emergency procedures : Ventilate area.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Take up liquid spill into absorbent material. Place in an appropriate container and dispose of the contaminated material at a licensed site. This material and its container must be disposed of in a safe way, and as per local legislation.

Other information : This material and its container must be disposed of as hazardous waste.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of solid materials or residues refer to section 13 : "Disposal considerations".

7 Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe fume, vapours.

Hygiene measures : Always wash hands after handling the product. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Separate working clothes from town clothes. Launder separately.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ensure adequate ventilation, especially in confined areas.

Storage conditions : Store locked up. Store in a well-ventilated place. Keep cool. Incompatible materials : Heat sources.

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Storage area : Store in a well-ventilated place. Store away from heat. Packaging materials : Keep only in original container.

7.3. Specific end use(s) Fluxing agent.

8 Exposure controls/personal protection

8.1. Control parameters No additional information available

8.2. Exposure controls

Appropriate engineering controls :EnsurePersonal protective equipment :GlovesMaterials for protective clothing :Wear :Hand protection :ProtectionEye protection :Wear tSkin and body protection :WearRespiratory protection :Combine

Ensure good ventilation of the work station. Gloves. Protective goggles. Face shield. Protective clothing. Wear suitable protective clothing Protective gloves Wear tight fitting safety glasses or facial screen Wear suitable protective clothing Combined gas/dust mask with filter type P3



Environmental exposure controls :

Avoid release to the environment.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties	
Physical state :	Solid
Appearance :	Powder.
Colour :	white
Odour :	odourless.
Odour threshold :	No data available
рН :	No data available
Relative evaporation rate (butylacetate=	1) : No data available
Melting point :	500 °C
Freezing point :	Not applicable
Boiling point :	No data available
Flash point :	Not applicable
Auto-ignition temperature :	Not applicable
Decomposition temperature :	No data available
Flammability (solid, gas) :	Non flammable
Vapour pressure :	No data available
Relative vapour density at 20 °C :	No data available
Relative density :	pprox 1.6 Not applicable
Solubility :	No data available
Log Pow :	No data available
Viscosity, kinematic :	Not applicable
Viscosity, dynamic :	No data available
Explosive properties :	Product is not explosive.
Oxidising properties :	Oxidising solids Not applicable.



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Explosive limits : 9.2. Other information No additional information available Not applicable

10. Stability and reactivity

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

10.2. Chemical stability Stable under normal conditions

10.3. Possibility of hazardous reactions No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Strong oxidizing agents, Strong bases, Strong acids, Aluminum, Tin, Zinc, chlorinated hydrocarbons, Acetone. Avoid contact with strong reducing

agents such as metal hydrides, acetic anhydride or alkali metals.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced

11. Toxicological information

11.1. Information on toxicological effects Acute toxicity : Oral: Harmful if swallowed. ATE CLP (oral) 405.452 mg/kg bodyweight Boron (7440-42-8) LD50 oral 650 mg/kg Skin corrosion/irritation : Causes severe skin burns and eye damage. Serious eye damage/irritation : Serious eye damage, category 1, implicit Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met) Not classified (Based on available data, the classification criteria are not met) Germ cell mutagenicity : Carcinogenicity : Not classified (Based on available data, the classification criteria are not met) Reproductive toxicity : May damage fertility or the unborn child. Specific target organ toxicity (single exposure) : Not classified (Based on available data, the classification criteria are not met) Specific target organ toxicity (repeated exposure): Not classified (Based on available data, the classification criteria are not met) Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

12. Ecological information

12.1. Toxicity

Ecology - general : Before neutralisation, the product may represent a danger to aquatic organisms. Ecology - water : Before neutralisation, the product may represent a danger to aquatic organisms.

12.2. Persistence and degradability



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P&I Black, White & L-6040 Fluxes Persistence and degradability Not established.

12.3. Bioaccumulative potentialP&I Black, White & L-6040 FluxesBioaccumulative potential Not established.

12.4. Mobility in soil P&I Black, White & L-6040 Fluxes Ecology - soil Not established.

12.5. Results of PBT and vPvB assessment
Component
boric acid (10043-35-3) This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects Other adverse effects : None known. Additional information : Avoid release to the environment

13. Disposal considerations

Waste treatment methods

Regional legislation (waste) :Disposal must be done according to official regulations.Waste treatment methods :Dispose of contents/container in accordance with licensed collector's sorting instructions.Waste disposal recommendations : Avoid release to the environment. Discharging into rivers and drains is forbidden. Dispose
of contents/container to a hazardous or special waste collection point.

Ecology - waste materials :

Avoid release to the environment

14. Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number	-
UN-No. (ADR) :	1759
UN-No. (IMDG) :	1759
UN-No. (IATA) :	1759
UN-No. (ADN) :	1759
UN-No. (RID) :	1759

14.2. UN proper shipping name

Proper Shipping Name (ADR) : CORROSIVE SOLID, N.O.S. (potassium bifluoride, potassium hydrogen difluoride(7789-29-9)) Proper Shipping Name (IMDG) : CORROSIVE SOLID, N.O.S. (potassium bifluoride, potassium hydrogen difluoride(7789-29-9)) Proper Shipping Name (IATA) : Corrosive solid, n.o.s. (potassium bifluoride, potassium hydrogen difluoride(7789-29-9)) Proper Shipping Name (ADN) : CORROSIVE SOLID, N.O.S. (potassium bifluoride, potassium hydrogen difluoride(7789-29-9)) Proper Shipping Name (RID) : CORROSIVE SOLID, N.O.S. (potassium bifluoride, potassium hydrogen difluoride(7789-29-9)) Proper Shipping Name (RID) : CORROSIVE SOLID, N.O.S. (potassium bifluoride, potassium hydrogen difluoride(7789-29-9)) Transport document description (ADR) :

UN 1759 CORROSIVE SOLID, N.O.S. (potassium bifluoride, potassium hydrogen difluoride(7789-29-9)), 8, II, (E) Transport document description (IMDG) :

UN 1759 CORROSIVE SOLID, N.O.S. (potassium bifluoride, potassium hydrogen difluoride(7789-29-9)), 8, II Transport document description (IATA) :

UN 1759 Corrosive solid, n.o.s. (potassium bifluoride, potassium hydrogen difluoride(7789-29-9)), 8, II Transport document description (ADN) :

UN 1759 CORROSIVE SOLID, N.O.S. (potassium bifluoride, potassium hydrogen difluoride(7789-29-9)), 8, II Transport document description (RID) :

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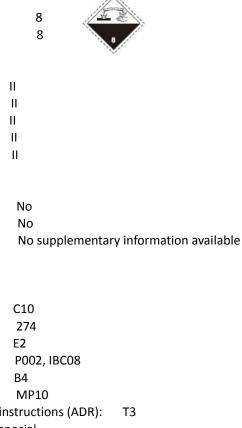
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UN 1759 CORROSIVE SOLID, N.O.S. (potassium bifluoride, potassium hydrogen difluoride(7789-29-9)), 8, II 14.3. Transport hazard class(es)

1/2

ADR

Transport hazard class(es) (A Danger labels (ADR) :	.DR): 8 8	***
IMDG Transport hazard class(es) (II Danger labels (IMDG) :	MDG): 8 8	
IATA Transport hazard class(es) (I <i>I</i> Hazard labels (IATA) :	ATA): 8 8	A B
ADN		
Transport hazard class(es) (A Danger labels (ADN) : RID	.DN): 8 8	
Transport hazard class(es) (R Danger labels (RID) :	ID): 8 8	
14.4. Packing group Packing group (ADR) : Packing group (IMDG) : Packing group (IATA) : Packing group (ADN) :	 	x -
Packing group (RID) :	II	
14.5. Environmental hazards Dangerous for the environm Marine pollutant : Other information :	ent : No No	upplementary inform
14.6. Special precautions for - Overland transport Classification code (ADR) : Special provisions (ADR) : Excepted quantities (ADR) : Packing instructions (ADR) : Special packing provisions (A Mixed packing provisions (A Portable tank and bulk conta Portable tank and bulk conta provisions (ADR) : Tank code (ADR) : Vehicle for tank carriage : Transport category (ADR) :	C10 274 E2 P002, ADR): B4 DR): MP10 ainer instruction iner special TP33 SGAN, L4BN AT 2	ons (ADR): T3
Special provisions for carriag	ge - Packages(A	ADR): V11





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Hazard identification number (Kemler No.): 80

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
15.1.1. EU-Regulations
Contains no REACH substances with Annex XVII restrictions
Contains a substance on the REACH candidate list in concentration ≥ 0.1% or with a lower specific limit: Boric acid (EC 233-139-2, CAS 10043-35-3)
Contains no REACH Annex XIV substances
15.1.2. National regulations
No additional information available
15.2. Chemical safety assessment
No chemical safety assessment has been carried out

16. Other information including information on preparation and revision of the SDS

Full text of H- and EUH-statements:

Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Repr. 1B	Reproductive toxicity, Category 1B
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
H301	Toxic if swallowed
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H319	Causes serious eye irritation
H360	May damage fertility or the unborn child
H360FD	May damage fertility. May damage the unborn child

Further information:

Judgments as to the suitability of information herein or the purchaser's purposes are necessarily the purchaser's responsibility. Reasonable care has been taken in the preparation of this material, but there are NO WARRANTIES, NO REPRESENTATIONS AND NO RESPONSIBILITY AS TO THE ACCURACY OR THE SUITABILITY OF THIS INFORMATION FOR ANY PURCHASER'S USE OR FOR ANY CONSEQUENCE TO USE.