INFORMATIONS CONCERNANT LE FOURNISSEUR DE LA FDS :

Préparation :

Code produit : 998 098E
Désignation : Borax, pain de 112 g
Utilisation : Brazing flux agent

Identification de la Société :

Raison Sociale: Cookson-CLAL
Adresse siège social : 5 Chemin du Plateau 69570 Dardilly
Telephone: 0800 878 202
E-mail: qualite@cookson-clal.com

Numéro d'appel d'urgence :

N° ORFILA (INRS) : + 33 (0)1 45 42 59 59 - http://www.centres-antipoison.net
Ce numéro permet d'obtenir les coordonnées de tous les centres Antipoison Français.
Ces centres antipoison et de toxicovigilance fournissent une aide médicale gratuite (hors coût d'appel), 24 heures sur 24 et 7 jours sur 7.

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Issuing Date 25-Jun-21 **Revision Date** 25-Jun-21 **Revision Number** 1

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

1.1. Product identifier

Product Code(s) 998-098E, 998-0981, 1VP-001

Product Name Borax flux bar, Borax flux cone

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

Recommended use Brazing flux agent

Uses advised against Use only for intended applications

1.3. Details of the supplier of the safety data sheet

Supplier
Cookson Precious Metals Ltd
59-83 Vittoria Street
Birmingham
B1 3NZ
United Kingdom
+44 (0) 121 200 2120

For further information, please contact
E-mail address info@cooksongold.com

1.4. Emergency telephone number

Emergency Telephone +44 (0)121 200 2120
(Monday - Friday 08:00-20:00, Saturday - Sunday 10:00-16:00)

Europe 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Regulation (EC) No 1272/2008

Harmful if swallowed	H302
Harmful in contact with skin	H312
May damage fertility or the unborn child	H360FD

2.2. Label elements
Contains Disodium Tetraborate Decahydrate, Boric acid and Potassium hydroxide.

Pictograms

Signal word

Danger

Hazard statements
H302+312: Harmful if swallowed or in contact with skin
H360FD: May damage fertility or the unborn child

Precautionary Statements
P201: Obtain special instructions before use
P202: Do not handle until all safety precautions have been read and understood
P264:
P270: Do not eat, drink or smoke when using this product
P281: Wear protective gloves / protective clothing / eye protection / face protection
P301+312: If swallowed call a poison centre if you feel unwell
P308+313: If exposed or concerned get medical advice / attention
P405: Store locked up
P501: Dispose of contents / containers in accordance to all local, national and international regulations

2.3. Other hazards
The product does not contain any substance(s) classified as PBT or vPvB

SECTION 3: Composition/information on ingredients

3.1 Substances
Not applicable

3.2 Mixtures

Chemical name	EC No.	CAS No.	Weight (%)	Classification according to (EC) 1272/2008	REACH registration number
Disodium Tetraborate Decahydrate	215-540-4	1303-96-4	*	H360FD Respr. 1B	-
Boric Acid	233-139-2	10043-35-3	*	H360FD Respr. 1B	01-2119486683-25-XXXX
Potassium hydroxide	215-181-3	1310-58-3	*	H302 Acute Tox. 4 H314 Skin Corr. 1A	01-2120767289-38-XXXX

*withheld by supplier to protect confidential business information. Contact emergency number in SECTION 1 if more information is required.

For full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice — Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

Inhalation — Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Get immediate medical advice/attention.

Eye contact — Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

Skin contact — IF ON CLOTHING: rinse immediately contaminated clothing and skin with plenty of water before removing clothes. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. Get immediate medical advice/attention.

Ingestion	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Get immediate medical advice/attention.
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing.

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

Symptoms	May cause irritation and redness of the eyes, may cause irritation of the respiratory tract. For unborn child, reduced foetal weight and skeletal malformations may occur.

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

Note to doctors	Treat symptomatically. If large amounts ingested or inhaled contact poison centre immediately.

SECTION 5: Fire fighting measures

5.1. Extinguishing media

Suitable Extinguishing Media	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	None.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	None
Hazardous combustion products	Carbon oxides, metal oxides and boron oxides.

5.3. Advice for fire-fighters

Special protective equipment for fire-fighters	Fire-fighters should wear self-contained breathing apparatus and full fire fighting turnout gear. Use personal protection equipment. Move containers from fire area if you can do it without risk. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. ALWAYS stay away from tanks engulfed in fire. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible withdraw from area and let fire burn.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Evacuate personnel to safe areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. See section 8 for more information. Stop leak if you can do it without risk. Use personal protective equipment as required.
Other information	Ventilate the area. Refer to protective measures listed in Sections 7 and 8.
For emergency responders	Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions	Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Should not be released into the environment. Do not allow to enter into soil/subsoil.

6.3. Methods and material for containment and cleaning up

Methods for containment	Dyke far ahead of spill; use dry sand to contain the flow of material. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Stop leak if you can do it without risk.
Methods for cleaning up	Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. With clean shovel place material into clean, dry container and cover loosely; move containers from spill area. Flush area with flooding quantities of water. Prevent product from entering drains.
Prevention of secondary Hazards	Clean contaminated objects and areas thoroughly observing environmental regulations. Wear appropriate protective equipment and ensure adequate ventilation.

6.4. Reference to other sections

Reference to other sections	See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling	Use personal protection equipment. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Handle in accordance with good industrial hygiene and safety practice. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Take off contaminated clothing and wash it before reuse.
General hygiene considerations	Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes or clothing.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep at temperatures between 5 and 35 °C. Keep away from heat, open flames and other ignition sources. Keep in properly labelled containers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Protect from moisture. Store locked up. Keep out of the reach of children. Store away from other materials.

7.3. Specific end use(s)

Risk management methods (RMM)	The information required is contained within this safety data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits
Known exposure limits for components listed below.

Chemical name	European Union	United Kingdom	France	Spain	Germany
Disodium Tetraborate Decahydrate	-	LTEL 5mgm^{-3}	-	-	-
Boric Acid	-	-	-	-	-
Potassium hydroxide	-	STEL 2mgm^{-3}	-	-	-
Chemical name	**Italy**	**Portugal**	**Netherlands**	**Finland**	**Denmark**
Disodium Tetraborate Decahydrate	-	-	-	-	-
Boric Acid	-	-	-	-	-
Potassium hydroxide	-	-	-	-	-
Chemical name	**Austria**	**Switzerland**	**Poland**	**Norway**	**Ireland**
Disodium Tetraborate Decahydrate	-	-	-	-	LTEL 5mgm^{-3}
Boric Acid	-	-	-	-	-
Potassium hydroxide	-	-	-	-	STEL 2mgm^{-3}

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering controls
Showers
Eyewash stations
Ventilation systems.

Personal protective equipment

Eye/face protection
Wear tight fitting chemical splash goggles when eye and face contact is possible due to spraying of material.

Hand protection
Wear suitable gloves. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves.

Skin and body protection
Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Wear fire/flame resistant/retardant clothing.

Respiratory protection
In case of insufficient ventilation, wear suitable respiratory equipment. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

General hygiene considerations
Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes or clothing.

Environmental exposure controls	Prevent product from entering drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	
Physical state	Solid
Colour	White
Odour	No information available
Odour threshold	No information available

Property	**Value(s)**
pH	No data available
Melting point / freezing point	No data available
Boiling point / boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Flammability Limit in Air	
Upper flammability or explosive limits	No data available
Lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Water solubility	No data available
Solubility(ies)	No data available
Partition coefficient	No data available
Auto ignition temperature	No data available
Decomposition temperature	No data available
Kinematic viscosity	No data available
Dynamic viscosity	No data available
Explosive properties	No information available.
Oxidising properties	No information available.

9.2. Other information

Softening point	No information available
Molecular weight	No information available
VOC Content (%)	No information available
Liquid Density	No information available
Bulk density	No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	Stable under normal conditions.

10.2. Chemical stability

Stability	Stable under normal conditions.
Explosion data	
Sensitivity to mechanical impact	None
Sensitivity to static discharge	None

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Hazardous reactions will not occur under normal transport or storage conditions.

10.4. Conditions to avoid

Conditions to avoid None

10.5. Incompatible materials

Incompatible materials None

10.6. Hazardous decomposition products

Hazardous decomposition products The mixture is stable at room temperature. At elevated temperatures the product may release hazardous materials, see SECTION 5.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available. May cause irritation of the respiratory tract (based on components)

Eye contact Specific test data for the substance or mixture is not available. May cause irritation and redness (based on components)

Skin contact Specific test data for the substance or mixture is not available. Dusts may cause mild irritation at point of contact (based on components).

Ingestion Specific test data for the substance or mixture is not available. Harmful if swallowed (based on components)

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Coughing, difficulty in breathing. Dust may be irritant to eyes, skin and respiratory system. Ingestion may cause irritation, nausea and diarrhoea.

Numerical measures of toxicity

Acute toxicity

Specific test data for the mixture is not available. Classification based on data available for components.
H302+H312: Harmful if swallowed or in contact with skin

Component information

Chemcal name	Oral LD50	Dermal LD50	Inhalation LD50
Disodium Tetraborate Decahydrate	2660mg/kg	-	-
Boric Acid	-	-	-
Potassium hydroxide	-	-	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity	Classification based on data available for components. H360F: May damage fertility. H360D: May cause damage to unborn child.
STOT - single exposure	Based on available data, the classification criteria are not met.
STOT - repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Not applicable.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity	Based on available data, the classification criteria are not met.
Unknown aquatic toxicity	Contains 0 % of components with unknown hazards to the aquatic environment.

12.2. Persistence and degradability

Persistence and degradability	No information available

12.3. Bioaccumulative potential

Bioaccumulation	No information available

12.4. Mobility in soil

Mobility in soil	No information available
Mobility	No information available

12.5. Results of PBT and vPvB assessment

This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects	No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products	Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers. Dispose of packaging in accordance with local regulations.
Waste codes / waste designations according to EWC / AVV	According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: Transport information

This product is not regulated for transport (ADR/RID/IMDG/IATA)

ADR/RID/IMDG/IATA

14.1 UN number	N/A
14.2 UN proper shipping name	N/A
14.3 Transport hazard class(es)	N/A

Subsidiary hazard class	N/A
14.4 Packing group	N/A
Description	N/A
14.5 Environmental hazards	None
14.6 Special Precautions for Users	
Special Provisions	N/A

SECTION 15: Regulatory information

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

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Authorisations and/or restrictions on use:
This product contains one or more substances subject to authorisation or restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

Chemical name	Subjected to restriction	Subjected to authorisation
Boric acid	30	-

Persistent Organic Pollutants
Not applicable

Dangerous substance category per Seveso Directive (2012/18/EU)
Not applicable

Named dangerous substances per Seveso Directive (2012/18/EU)
Not applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009
Not applicable

International Inventories
TSCA Contact supplier for inventory compliance status
DSL/NDSL Contact supplier for inventory compliance status
EINECS/ELINCS Contact supplier for inventory compliance status
ENCS Contact supplier for inventory compliance status
IECSC Contact supplier for inventory compliance status
KECL Contact supplier for inventory compliance status
PICCS Contact supplier for inventory compliance status
AICS Contact supplier for inventory compliance status

Legend:
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

15.2. Chemical safety assessment

Chemical Safety Report No information available

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3
H302: Harmful if swallowed
H314: Causes severe skin burns and eye damage
H360FD: May damage fertility or the unborn child

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	LTEL	LTEL (Long Term Exposure Limit)

Classification procedure
Calculation method
Expert judgment and weight of evidence determination

Key literature references and sources for data used to compile the SDS
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
EPA (Environmental Protection Agency)
Acute Exposure Guideline Level(s) (AEGL(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
Japan GHS Classification
Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme
Organisation for Economic Co-operation and Development Screening Information Data Set
RTECS (Registry of Toxic Effects of Chemical Substances)
World Health Organization

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Revision Note Initial Release.

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet