

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

- **1.1 Product identifier**
- **Trade name:** COBOR FLUX 1052
- **Article number:** 1052/1
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Product category** PC38 Welding and soldering products (with flux coatings or flux cores.), flux products
- **Application of the substance / the mixture** Brazing flux
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Specialised Welding Products Ltd
- Unit 1, Farringdon Industrial Centre, Farringdon, Nr Alton, Hampshire GU34 9DD, UK
- Tel: +44 (0)1420 588180, Email: sales@wsp.uk.net
- **1.4 Emergency telephone number:** +44 (0)1420 588180
- www.specialisedwelding.co.uk

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS08 health hazard

Repr. 2 H361d Suspected of damaging the unborn child.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms** GHS07, GHS08
- **Signal word** Warning
- **Hazard-determining components of labelling:**
potassium difluorodihydroxyborate(1-)
potassium tetraborate
- **Hazard statements**
H302 Harmful if swallowed.
H361d Suspected of damaging the unborn child.
- **Precautionary statements**
P281 Use personal protective equipment as required.
P264 Wash thoroughly after handling.
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Additional information:**
Presence of Substances of Very High Concern (SVHC) according to REACH Regulation terms.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

Trade name: COBOR FLUX 1052

(Contd. of page 1)

SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 85392-66-1 EINECS: 286-925-2	potassium difluorodihydroxyborate(1-) ⚠ Acute Tox. 4, H302	50-100%
CAS: 12045-78-2 EINECS: 215-575-5 Reg.nr.: 01-2119970730-37-xxxx	potassium tetraborate ⚠ Repr. 2, H361d	10-50%
CAS: 10043-35-3 EINECS: 233-139-2 Reg.nr.: 01-2119486683-25-xxxx	boric acid ⚠ Repr. 1B, H360FD	<1%

- **Additional information**
Possible traces of boric acid.
For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information**
Immediately remove any clothing soiled by the product.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation** In case of unconsciousness place patient stably on their side for transportation.
- **After skin contact** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact** Rinse opened eye for several minutes under running water.
- **After swallowing**
Look for a medical aid immediately and show him the label or this sheet.
Do NOT induce vomiting, do NOT drink, seek medical advice
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **5.2 Special hazards arising from the substance or mixture** Hydrogen fluoride (HF)
- **5.3 Advice for firefighters**
- **Protective equipment:** Mount respiratory protective device.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Not required.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Dispose of contaminated material as waste according to item 13.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

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(Contd. on page 3)

Trade name: **COBOR FLUX 1052**

(Contd. of page 2)

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** *Open and handle receptacle with care.*
- **Information about protection against explosions and fires:** *Keep respiratory protective device available.*
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:** *No special requirements.*
- **Information about storage in one common storage facility:** *Not required.*
- **Further information about storage conditions:**
Advised preservation period under normal storage conditions: 6 months.
Keep receptacle tightly sealed.
- **7.3 Specific end use(s)** *No further relevant information available.*

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:** *No further data; see item 7.*
- **8.1 Control parameters**
- **Components with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· DNELs

12045-78-2 potassium tetraborate

Oral	DNEL	1.2 mg/kg bw/day (user) (acute & chronic systemic effects)
Dermal	DNEL	242.40 mg/kg bw/day (user) (chronic systemic effects)
		480.60 mg/kg bw/day (worker) (chronic systemic effects)
Inhalative	DNEL	5.16 mg/m ³ (user) (chronic systemic effects)
		1025 mg/m ³ (worker) (chronic systemic effects)

· PNECs

12045-78-2 potassium tetraborate

PNEC	2.02 mg/l (Fresh water) (of boron)
	13.7 mg/l (intermittent releases) (of boron)
	10 mg/l (STP microorganismes station d'eaux usées) (of boron)
	2.02 mg/l (Sea water) (of boron)
PNEC	5.4 mg/kg (soil) (of boron, kg dry soil)

- **Additional information:** *The lists that were valid during the creation were used as basis.*

· 8.2 Exposure controls

· **Personal protective equipment**

· **General protective and hygienic measures**

- Keep away from foodstuffs, beverages and feed.*
- Immediately remove all soiled and contaminated clothing*
- Wash hands before breaks and at the end of work.*
- Store protective clothing separately.*
- Avoid contact with the skin.*
- Avoid contact with the eyes and skin.*

· **Breathing equipment:** *Not required.*

· **Protection of hands:**

- Protective gloves.*
- The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.*
- Due to a lack of tests, no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.*
- Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation*

(Contd. on page 4)

Trade name: COBOR FLUX 1052

(Contd. of page 3)

· **Glove material**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact penetration time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Not required.

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· **Form:** Powder

· **Colour:** White

· **Odour:** Odourless

· **Odour threshold:** Not determined.

· **pH-value:** Not applicable.

· **Change in condition**

· **Melting point/Melting range:** undetermined

· **Boiling point/Boiling range:** undetermined

· **Flash point:** Not applicable

· **Flammability (solid, gaseous)** Not determined.

· **Ignition temperature:**

· **Decomposition temperature:** Not determined.

· **Self igniting:** Product is not self igniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Explosion limits:**

· **Lower:** Not determined.

· **Upper:** Not determined.

· **Vapour pressure:** Not applicable.

· **Density:** Not determined

· **Relative density** Not determined.

· **Vapour density** Not applicable.

· **Evaporation rate** Not applicable.

· **Solubility in / Miscibility with**

· **Water:** Partly soluble

· **Partition coefficient (n-octanol/water):** Not determined.

· **Viscosity:**

· **dynamic:** Not applicable.

· **kinematic:** Not applicable.

· **Organic solvents:** 0.0 %

· **Solids content:** 100 %

· **9.2 Other information** No further relevant information available.

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(Contd. on page 5)

Trade name: COBOR FLUX 1052

(Contd. of page 4)

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** Hydrogen fluoride

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**
Harmful if swallowed.

- **LD/LC50 values that are relevant for classification:**

12045-78-2 potassium tetraborate

Oral	LD50	3500-4100 mg/kg (rat) (OCDE ligne directrice 401) substance testée : acide borique
Dermal	LD50	(rabbit) Based on a dermal LD50 value with boric acid in rabbits greater than 2000mg/kg bw, and since potassium tetraborate is not anticipated to have a dermal LD50 value in the range of 2000-5000 mg/kg bodyweight, the classification criteria are not met.
Inhalative	LC50	(rat) (OCDE ligne directrice 403) Based on LC50 values in rats for acute inhalation toxicity studies with other borates that were >2g/m3, the classification criteria are not met.

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/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.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
Possible risk of impaired fertility.
Possibility risk of harm to the unborn child.
- **Others datas concerning CMR effects** Limited evidence of a carcinogenic effect.
- **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**
Suspected of damaging the 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** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.

- **Type of test** Effective concentration Method Assessment

12045-78-2 potassium tetraborate

CE50 / 48h	133 mg/l (daphnia) (en bore (B) - daphnia magna straus) substance testée : acide borique
CL50 / 96h	40 mg/l (fish) (en bore (B) - limanda limanda) substance testée : tétraborate de sodium

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.

(Contd. on page 6)

Trade name: COBOR FLUX 1052

(Contd. of page 5)

- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**



Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- **European waste catalogue**
Must apply in all cases all local, regional and national laws and European directives. The end user must determine the specific code of waste for each industry using the appropriate European Code European Waste Catalogue. It is recommended that all details are specified by the responsible waste.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- | | |
|---|-----------------|
| · 14.1 UN-Number
· ADR, ADN, IMDG, IATA | Void |
| · 14.2 UN proper shipping name
· ADR, ADN, IMDG, IATA | Void |
| · 14.3 Transport hazard class(es)
· ADR, ADN, IMDG, IATA
· Class | Void |
| · 14.4 Packing group
· ADR, IMDG, IATA | Void |
| · 14.5 Environmental hazards:
· Marine pollutant: | No |
| · 14.6 Special precautions for user | Not applicable. |
| · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable. |
| · UN "Model Regulation": | Void |

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations**
- **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **Customs Combined Nomenclature :** 38.10.90.90.00

(Contd. on page 7)

Trade name: COBOR FLUX 1052

(Contd. of page 6)

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

* **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H302 Harmful if swallowed.

H360FD May damage fertility. May damage the unborn child.

H361d Suspected of damaging the unborn child.

· **Department issuing MSDS:** Technical service