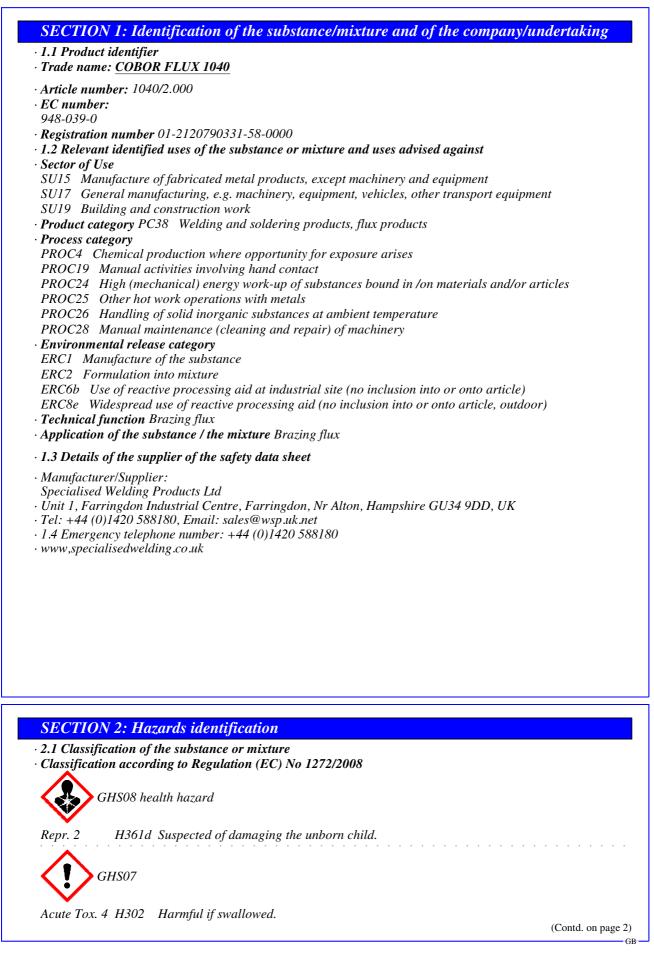
Super6

Safety data sheet according to 1907/2006/EC, Article 31

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Trade name: COBOR FLUX 1040

	(Contd. of page 1)
The substa Hazard pi	elements according to Regulation (EC) No 1272/2008 ance is classified and labelled according to the CLP regulation. actograms GHS07, GHS08 rd Warning
U	etermining components of labelling:
	product of mixed inorganic base and acid resulting in potassium trihydroxy fluoroborate,
	m tetrahydroxy tetraboronpentaoxide dehydrate, potassium tetrafluroborate in powder form.
Hazard st	
	ırmful if swallowed.
	spected of damaging the unborn child.
	nary statements
P264	
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P3	12 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P308+P3	13 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.
2.3 Other	hazards
Results of	PBT and vPvB assessment
	applicable.
vPvB: Not	t applicable.

SECTION 3: Composition/information on ingredients

· 3.1 Chemical characterisation: Substances

· CAS No. Description:

Reaction product of mixed inorganic base and acid resulting in potassium trihydroxy fluoroborate, dipotassium tetrahydroxy tetraboronpentaoxide dehydrate, potassium tetrafluroborate in powder form.

• Identification number(s):

- EC number: 948-039-0
- · Additonal information:

This product contains an UVCB substance which was registered using a READ-ACCROSS approach with potassium tetraborate (CAS n°12045-78-2).

Possible traces of SVHC substance according to Article 59 of Regulation No. 1907/2006 ("REACH") at a concentration <0,1%.

SECTION 4: First aid measures

- 4.1 Description of first aid measures
- · General information

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- · After inhalation Supply fresh air; consult doctor in case of complaints.
- After skin contact Generally the product does not irritate the skin.
- · After eye contact
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- · After swallowing

Swallowing small quantities (one teaspoon) will cause no harm to healthy adults. If larger amounts are swallowed, give two glasses of water to drink and seek medical attention.

 \cdot 4.2 Most important symptoms and effects, both acute and delayed

This product may compromise fertility and / or harm the fetus.

Symptoms of accidental over-exposure to high doses of inorganic borate salts have been associated with ingestion or absorption through large areas of severely damaged skin. These may include nausea, vomiting, and diarrhoea, with delayed effects of skin redness and peeling.

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· Information for doctor

No specific antidote. Treat the symptoms.

If vomiting occurs, keep head lower than the rest of the body so as to prevent aspiration into the lungs. • **4.3 Indication of any immediate medical attention and special treatment needed**

Simple observation is necessary for ingestion by an adult of less than a few grams of product. In the case of ingestion of larger amounts, maintain fluid and electrolyte balance and maintain adequate renal function. Gastric lavage is only recommended for highly exposed and symptomatic patients in whom vomiting has not cleared the stomach. Hemodialysis should be reserved for patients with massive acute absorption, especially for patients with impaired renal function. Boron assays in urine or blood are only useful for verifying exposure but are not useful for assessing the severity of the poisoning or as a guide for treatment.

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. Use fire fighting measures that suit the environment.

- 5.2 Special hazards arising from the substance or mixture Possibility of formation of toxic and/or corrosive decomposition products. Hydrogen fluoride (HF)
- · 5.3 Advice for firefighters
- · Protective equipment: Wear fully protective suit.
- · Additional information

The product is non-combustible.

non-flammable substance/product.

The product itself is not combustible; Define the means of extinction according to a fire in the vicinity. In case of fire and / or explosion, do not breathe fumes. Large quantities of extinguishing water containing dissolved product should be retained. Contaminated extinguishing water should be disposed of in accordance with local official regulations.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Handle in accordance with good hygiene and safety at work. Before the break and after work, wash your hands thoroughly. Remove and wash contaminated clothing before reuse. Provide safety showers and eye fountains in workshops where the mix is handled consistently.

· Information about protection against explosions and fires: No special measures required.

· 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.
- \cdot Further information about storage conditions:

Advised preservation period under normal storage conditions: 24 months. Keep receptacle tightly sealed.

Keep away from food, beverages and animal feed.

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· Storage class

· Class according to regulation on flammable liquids: Void

• 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

This product contains an UVCB substance that has been registered using a READ-ACCROSS approach with potassium tetraborate (CAS No. 12045-78-2). Values (DNEL, PNEC, etc) and recommendations on exposure are defined in relation to this reference substance.

· Components with limit values that require monitoring at the workplace:

This substance does not have a exposure limit. However, it may be necessary to move closer to national legislation with regard to fluoride and borate.

CAS: 14075-53-7 potassium tetrafluoroborate				
WEL Long	WEL Long-term value: 2.5 mg/m ³			
as F	as F			
CAS: 1303-86-2 boric oxide				
	WEL Short-term value: 20 mg/m ³			
Long	Long-term value: 10 mg/m ³			
·DNELs				
CAS: 1204	5-78-2	potassium tetraborate		
Oral	DNEL	1.2 mg/kg bw/day (user long term systemic effect)		
		1.2 mg/kg bw/day (user short term systemic effect)		
Dermal	DNEL	242.4 mg/kg bw/day (user long term systemic effect)		
		480.6 mg/kg bw/day (worker long term systemic effect) (chronic systemic effects)		
Inhalative	DNEL	5.16 mg/m3 (user long term systemic effect)		
		10.25 mg/m3 (worker long term systemic effect)		
· PNECs				
CAS: 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.

Wash hands before breaks and at the end of work.

Safety showers and eye wash stations should be strategically located in areas where hazardous products are stored or used. Their location should be close enough for immediate use, but at a distance that would not create additional danger.

• Breathing equipment:

Provide an adequate ventilation, through the installation of local exhaust ventilation-unit and a general exhaust system. Applying recommended technical measures, it is not necessary to wear personal protective equipment.

Air Emissions: Emissions to air can be prevented by one or more of the following dust control measures: electrostatic precipitators, cyclones, fabric or bag filters, membrane filters, ceramic and metal strainers, and by wet scrubbers.

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In the event that suspended dust	(Contd. of page 4) concentrations exceed the exposure limits, respirators should be used. (CEN
<i>149:2001</i>).	
· Protection of hands:	
Protective gloves.	
	ermeable and resistant to the product/ the substance/ the preparation. nendation to the glove material can be given for the product/ the preparation/
Selection of the glove materia degradation	al on consideration of the penetration times, rates of diffusion and the
· Glove material	
and varies from manufacturer to	yes does not only depend on the material, but also on further marks of quality manufacturer.
Cotton gloves	
Strong gloves	
Rubber gloves	
• Penetration time of glove matern The exact penetration time has observed.	to be found out by the manufacturer of the protective gloves and has to be
• Eye protection: Not required.	
• Limitation and supervision of ex	crosure into the environment
It is important to test emissions with the requirements of legisla	from ventilation systems or manufacturing equipment to ensure they comply tion on protection of the environment. In some cases it will be necessary to turing a gas scrubber or filter or change technically to reduce emissions to
· Risk management measures	
Employer is obligated to ensur protective and usable properties, Training on chemical hazards, u risk. The instructions to be obser rules, operating procedures, pro source, obligation to wear PPE, Risk management measures (RM ensure that exposures are under	re, that applied personal protective measures and cloths and shoes have and ensure their proper washing, preserving, fixing and disinfection. se and exposure to products must be provided by the employer to prevent any rved must also be brought to the knowledge of employees and users (hygiene ocedures, prohibition of access to certain areas, use of collection devices at etc). (M) and operating conditions (OC) were calculated using tools. Users should r control. in case of deviation, a step of calibration of the results (scaling) may be required to validate the approach and results.
	environmental protection, refer section 12.
*	· · · ·
SECTION 9: Physical and	chemical properties
• 9.1 Information on basic physic	al and chemical properties
· General Information	• •
· Appearance:	
Form:	Powder
Colour:	White
· Odour:	Odourless
· Odour threshold:	Not determined.
n U value.	Not applicable

 • pH-value:
 Not applicable.

 • Change in condition Melting point/freezing point:
 > 350 °C Initial boiling point and boiling range: undetermined

 • Flash point:
 Not applicable

 • Flash point:
 Not applicable

 • Flammability (solid, gaseous)
 Product is not flammable. Not determined. Not applicable.



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Decomposition temperature:	Not determined.
Self igniting:	Not determined.
Explosive properties:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapour pressure:	Not applicable.
Density at 20 °C:	2.182 g/cm ³
Bulk density:	$2,182 \text{ kg/m}^3$
Relative density	Not determined.
· Vapour density	Not applicable.
Evaporation rate	Not applicable.
Solubility in / Miscibility with	
Water at 20 °C:	<0.00157 g/l
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	
dynamic:	Not applicable.
kinematic:	Not applicable.
Solids content:	100.0 %
9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability

• Thermal decomposition / conditions to be avoided: The product is stable at normal ambient temperatures (-40 $^{\circ}$ C to + 40 $^{\circ}$ C). Under the effect of heat, this product loses water, possibly forming anhydrous borates.

• 10.3 Possibility of hazardous reactions Reaction with strong reducing agents such as hybrid metals or alkaline metals. Which generates of the gaseous dihydrogen, which could provoke a risk of explosion.

• 10.4 Conditions to avoid No further relevant information available.

• 10.5 Incompatible materials: Reaction with strong reducers

• 10.6 Hazardous decomposition products:

The liberation of other products of decomposition presenting risks is possible. Hydrogen fluoride

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

· Acute toxicity

Potassium tetraborate is not classified for the oral, dermal and inhalation routes because LD50 values exceed the classification limit. However, samples of this family have been tested according to the OECD 423 criteria and, as a precaution, acute toxicity category 4 has been proposed. Harmful if swallowed.

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		that are relevant for classification:
CAS: 1204	45-78-2	2 potassium tetraborate
Oral	LD50	3,500-4,100 mg/kg (rat) (OECD guideline 401 - oral acute toxicity) susbtance tested : boric acid
Dermal	LD50	mg/kg (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	mg/l (rat) (OECD guideline 403 - inhalation acute toxicity) Based on LC50 values in rats for acute inhalation toxicity studies with other borates (disodium tetraborate pentahydrate) that were >2g/l, the classification criteria are not met.
Primary ir		
		ritation Based on available data, the classification criteria are not met.
Serious ey	e damo	age/irritation Based on available data, the classification criteria are not met.
Respirator	y or sk	in sensitisation Based on available data, the classification criteria are not met.
Additional	l toxico	ological information:
potassium	tetrab	tains an UVCB substance that has been registered using a READ-ACCROSS approach wit orate (CAS No. 12045-78-2). Recommendations, toxicological and ecotoxicological value ation to this reference substance.
		cinogenity, mutagenicity and toxicity for reproduction)
		cerning CMR effects Suspected reprotoxic effect - insufficient evidence.
		enicity Based on available data, the classification criteria are not met.
	0	Based on available data, the classification criteria are not met.
Reproduct		
		aging the unborn child.
		osure Based on available data, the classification criteria are not met.
		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:

This product contains an UVCB substance that has been registered using a READ-ACCROSS approach with potassium tetraborate (CAS No. 12045-78-2). Toxicological and ecotoxicological values and recommendations are defined in relation to this reference substance. No further relevant information available.

CL50/96h	79.7 mg/l (fish) as boron - pimephales promelas fresh water - acute	
CE50 / 48h	91 mg/l (daphnia) as boron - ceriodaphnia dubia - fresh water - acute	
CE50 / 72h	52.4 mg/l (algae) as Boron - Pseudokirchneriella subcapitata - fresh water - acute	
NOAEL aquatic	17.5 mg/l (algae) as Boron - pseudokirchneriella subcapitata - fresh water - chronic	
	6.4 mg/l (fish) as boron - brachydanio rerio - fresh water - chronic	
	14.2 mg/l (daphnia) as boron - daphnia magna - fresh water - chronic	

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- 12.4 Mobility in soil No further relevant information available.
- Other information

Note that the values are expressed in boron equivalents. Boron is an essential micronutrient for healthy plant growth. In larger quantities, it can be harmful to boron-sensitive plants. It is necessary to minimize the amount of products containing borates released into the environment.

Dipotassium tetraborate is converted into boric acid/borate upon dissolution in water. Boric acid is an inorganic compound and not degradable. It is not subject to hydrolysis, photodegradation or biodegradation. Other borates yield boric acid upon dissolution in water (or borate anion in higher pH conditions). Over 200 minerals contain boron, mostly present as the sodium or calcium borate salt. Boron and its inorganic compounds are subject to chemical transformation precipitation, and fixation) once released to the environment.

- · 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.

HP 6 Acute Toxicity

HP 10 Toxic for reproduction

· Uncleaned packagings:

· Recommendation:

Dispose of packaging according to regulations on the disposal of packagings.

Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. Packagings that cannot be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport information

· 14.1 UN-Number · ADR, ADN, IMDG, IATA	Void	
· 14.2 UN proper shipping name		
·ADR	UN-	
· ADN, IMDG, IATA	Void	
· 14.3 Transport hazard class(es)		
· ADR, ADN, IMDG, IATA		
· Class	Void	
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· 14.4 Packing group · ADR, IMDG, IATA	Void	
· 14.5 Environmental hazards:	Not applicable.	
· 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

- · Named dangerous substances ANNEX I Substance is not listed.
- · National regulations
- · Classification according to VbF: Void
- Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- Customs Combined Nomenclature : 38.10.90.90.00
- · 15.2 Chemical safety assessment:

The information on the exposure scenarios of the substances was compiled in the different parts of the SDS of the mixture on the basis of read-accross with potassium tetraborate.

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.

We can not anticipate all conditions under which this information and our products or the combination of these with others will be used. We disclaim all responsibility for the safety and suitability of our products alone or in combination with others. It is up to the buyers to conduct their own tests to determine the safety and adaptation of each product used alone or with other products for their own use.

Unless prior written our products are sold without warranty and purchasers assume any liability for loss or damages of any kind suffered by themselves or third parties, either from handling or use of our products they are alone or with others. In case of finding of a difference when using the product we ask you to contact our technical service.

The information contained in this Material Safety Data Sheet is based on the knowledge of this product as well as national and European laws knowing that the working conditions of its users are not known and thus escape our control. The product should not be used for purposes other than those for which it was designed and prepared, it can be used without prior written knowledge of instructions for their use. It is up to the user to take all measures necessary to comply with these requirements by law.

Training advice: Training awareness of the dangers of chemicals, integration labeling, safety data sheets, personal protection and good hygienic measures. response training for chemical incidents. First aid for chemical exposure, including the use of safety eye wash and showers. The use of personal protective equipment, including selection, compatibility, maintenance, standards and fit. method of classification for mixtures: Calculation method.

[·] Directive 2012/18/EU