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

Printed date 18.10.2012 *Version number 1* *Revision: 18.10.2012*

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

· **Product identifier**
· **Trade name: ALUMINIUM WELDING FLUX - 500G**

· **Article number:** 1265/1
· **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 preparation** Brazing flux

· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**

Specialised Welding Products Ltd
Unit 1 Farringdon Industrial Centre,
Farringdon,
Nr.Alton
GU34 3DD

· **Emergency telephone number:** 01420 588180

2 Hazards identification

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

GHS08 health hazard

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

GHS07

Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

· **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**

Xn; Harmful

R22-48/20/22: Harmful if swallowed. Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.

Xi; Irritant

R38: Irritating to skin.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· **Information concerning particular hazards for human and environment:**
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
· **Classification system:**
The classification was made according to the latest editions of the EU-lists, and expanded upon from company and literature data.

· **Label elements**

· **Labelling according to EU guidelines:**
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials

· **Code letter and hazard designation of product:**
Xn Harmful

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· ***Hazard-determining components of labelling:***
sodium cryolite

· ***Risk phrases:***
22 Harmful if swallowed.
38 Irritating to skin.
48/20/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· ***Safety phrases:***
22 Do not breathe dust.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
29 Do not empty into drains.
36/37 Wear suitable protective clothing and gloves.
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
61 Avoid release to the environment. Refer to special instructions/safety data sheets.

· ***Other hazards***
· ***Results of PBT and vPvB assessment***
· ***PBT:*** *Not applicable.*
· ***vPvB:*** *Not applicable.*

3 Composition/information on ingredients

· ***Chemical characterization: Mixtures***
· ***Description:*** *Mixture of the substances listed below with nonhazardous additions.*

· **Dangerous components:**		
CAS: 7447-41-8 *EINECS: 231-212-3*	*lithium chloride* *Xn R22; Xi R37/38* *Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319*	*10-25%*
CAS: 13775-53-6 *EINECS: 237-410-6*	*sodium cryolite* *T R48/23/25; Xn R20/22; N R51/53* *STOT RE 1, H372; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Acute Tox. 4, H332*	*2.5-10%*
CAS: 7681-49-4 *EINECS: 231-667-8* *Reg.nr.: 01-2119539420-47-0000*	*sodium fluoride* *T R25; Xi R36/38* *R32* *Acute Tox. 3, H301; Skin Irrit. 2, H315; Eye Irrit. 2, H319*	*2.5-10%*

· ***Additional information*** *For the wording of the listed risk phrases refer to section 16.*

4 First aid measures

· ***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*** *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. Then consult a doctor.*
· ***After swallowing*** *Do NOT induce vomiting, do NOT drink, seek medical advice*
· ***Information for doctor***
· ***Most important symptoms and effects, both acute and delayed*** *No further relevant information available.*

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· **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Firefighting measures

· **Extinguishing media**
· **Suitable extinguishing agents**
CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· **Special hazards arising from the substance or mixture**
In case of fire, the following can be released:
Hydrogen fluoride (HF)
· **Advice for firefighters**
· **Protective equipment:** Wear fully protective suit.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures** Not required.
· **Environmental precautions:**
Inform respective authorities in case of seepage into water course or sewage system.
· **Methods and material for containment and cleaning up:**
Dispose of contaminated material as waste according to item 13.
· **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.

7 Handling and storage

· **Handling**
· **Precautions for safe handling** Prevent formation of dust.
· **Information about protection against explosions and fires:** No special measures required.

· **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.
· **Storage class**
· **Class according to regulation on flammable liquids:** Void
· **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**	
7681-49-4 sodium fluoride (2.5-10%)	
WEL	Long-term value: 2.5 mg/m³ as F

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

· **Exposure controls**
· **Personal protective equipment**
· **General protective and hygienic measures**
Keep away from foodstuffs, beverages and feed.

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Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the skin.
Avoid contact with the eyes and skin.

· ***Breathing equipment:***

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use an air-fed respirator.

· ***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

· ***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.*

9 Physical and chemical properties

· ***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.*

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· **Vapour density**	Not applicable.
· **Evaporation rate**	Not applicable.
· **Solubility in / Miscibility with Water:**	Soluble
· **Segregation coefficient (n-octanol/water):**	Not determined.
· **Viscosity:**	
dynamic:	Not applicable.
kinematic:	Not applicable.
Organic solvents:	0.0 %
Solids content:	100.0 %
· **Other information**	No further relevant information available.

10 Stability and reactivity

· **Reactivity**
· **Chemical stability**
· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **Possibility of hazardous reactions** No dangerous reactions known
· **Conditions to avoid** No further relevant information available.
· **Incompatible materials:** Avoid strong acids
· **Hazardous decomposition products:** Danger of toxic fluorine based pyrolysis products

11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**		
13775-53-6 sodium cryolite		
Oral	LD50	>5000 mg/kg (rat)
	LDL0	9000 mg/kg (rabbit)

· **Primary irritant effect:**
· **on the skin:** Irritant to skin and mucous membranes.
· **on the eye:** No irritating effect.
· **Sensitization:** No sensitizing effects known.
· **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:
Harmful
Irritant

12 Ecological information

· **Toxicity**
· **Aquatic toxicity:** No further relevant information available.

· **Type of test**	**Effective concentration**	**Method**	**Assessment**
13775-53-6 sodium cryolite			
CL50	1000 mg/l (fish)		

· **Persistence and degradability** No further relevant information available.
· **Behaviour in environmental systems:**
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.

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· ***Ecotoxical effects:***
· ***Remark:*** *Harmful to fish*
· ***Additional ecological information:***
· ***General notes:*** *Harmful to aquatic organisms*
· ***Results of PBT and vPvB assessment***
· ***PBT:*** *Not applicable.*
· ***vPvB:*** *Not applicable.*
· ***Other adverse effects*** *No further relevant information available.*

13 Disposal considerations

· ***Waste treatment methods***
· ***Recommendation***

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

· ***Uncleaned packagings:***
· ***Recommendation:*** *Disposal must be made according to official regulations.*
· ***Recommended cleansing agent:*** *Water, if necessary with cleansing agents.*

14 Transport information

· ***UN-Number***	
· ***ADR, ADN, IMDG, IATA***	*Void*
· ***UN proper shipping name***	
· ***ADR, ADN, IMDG, IATA***	*Void*
· ***Transport hazard class(es)***	
· ***ADR, ADN, IMDG, IATA***	
· ***Class***	*Void*
· ***Packing group***	
· ***ADR, IMDG, IATA***	*Void*
· ***Environmental hazards:***	
· ***Marine pollutant:***	*No*
· ***Special precautions for user***	*Not applicable.*
· ***Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code***	*Not applicable.*
· ***UN "Model Regulation":***	-

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15 Regulatory information

· ***Safety, health and environmental regulations/legislation specific for the substance or mixture***
· ***National regulations***

· ***Classification according to VbF:*** *Void*
· ***Technical instructions (air):***

Class	***Share in %***
III	*<25*

· ***Customs Combined Nomenclature :*** *38.10.90.90.00*

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

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***

H301 *Toxic if swallowed.*
H302 *Harmful if swallowed.*
H315 *Causes skin irritation.*
H319 *Causes serious eye irritation.*
H332 *Harmful if inhaled.*
H372 *Causes damage to organs through prolonged or repeated exposure.*
H411 *Toxic to aquatic life with long lasting effects.*

R20/22 *Harmful by inhalation and if swallowed.*
R22 *Harmful if swallowed.*
R25 *Toxic if swallowed.*
R32 *Contact with acids liberates very toxic gas.*
R36/38 *Irritating to eyes and skin.*
R37/38 *Irritating to respiratory system and skin.*
R48/23/25 *Toxic: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.*
R51/53 *Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*

· ***Department issuing MSDS:*** *Technical service*

· ***Contact:***

Vincent Francon

· **** Data compared to the previous version altered.***