

# SAFETY DATA SHEET

## AUROFLUX SOLDERING FLUID

### Section1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

**Product name:** AUROFLUX SOLDER FLUID

**Product code:** 9348A, 9349A1, 9349A, 9349B,

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

Auroflux is used as an aid to soldering and brazing, ie the joining of metals by heat.

#### 1.3 Details of the supplier of the safety data sheet

**Company Name:** Alisco Company  
PO Box 6166, Warwick CV34 9PN, UK

**Tel:** (44) 01926 359930

**Email:** [sales@alisco.co.uk](mailto:sales@alisco.co.uk)

**Contact:** Lisa Wheeler

**1.4 Emergency No:** +44 (0) 7775 523332 (office hours only)

### Section2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (EC 1272/2008)

Physical and Chemical Hazards	Not classified
Human health	Repr. 1B – H360FD
Environment	Not classified

**Classification (1999/45/EEC)** Repr. Cat. 2;R60, R61

The full Text for all R Phrases and Hazard statements are displayed in Section 16.

#### 2.2. Label elements

**Contains** Borax Salt, Boric Acid, Di-Ammonium Hydrogen Phosphate, Sodium Fluorescein

**Label in accordance with (EC) No. 1272/2008**

[cont...]

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**Signal words:** Danger

**Hazard statements:** H360FD: May damage fertility or the unborn child if swallowed.

**Precautionary statements:**

<b>P201:</b>	Obtain special instructions before use.
<b>P202:</b>	Do not handle until all safety precautions have been read & understood
<b>P280:</b>	Wear protective clothing, gloves, eye and face protection.
<b>P261:</b>	Avoid breathing vapour/spray.
<b>P281:</b>	Use personal protective equipment as required
<b>P308+313</b>	If exposed or concerned: Get medical advice/attention.
<b>P281:</b>	Use personal protective equipment as required.

**Supplementary Precautionary Statements:**

<b>P403+233</b>	Store in a well ventilated place, keep container tightly closed.
<b>P501a</b>	Dispose of contents/container in accordance with local, regional National and/or international regulations.

**Supplemental label information**

<b>RCH002</b>	Restricted to professional users.
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### 2.3. Other hazards



**Signal Words:** Toxic

**Risk Phrases**

<b>R60:</b>	May impair fertility.
<b>R61</b>	May cause harm to the unborn child.

**Safety Phrases**

<b>S53</b>	Avoid exposure – obtain special instructions before use.
<b>S45</b>	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

**Precautionary Phrases** Restricted to professional users.

**Other hazards:** Danger of serious damage to health by prolonged exposure.  
**PBT:** This product is not identified as a PBT/vPvB substance

## 3. Composition/information on ingredients

### 3.1. Substances

<b>REACH registered number(s):</b>	01-2119490790-32-XXXX
<b>CAS number:</b>	1303-96 04
<b>EC number:</b>	215-540-4
<b>Synonyms:</b>	BORAX DECAHYDRATE <60%

[cont...]

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### 3. Composition/information on ingredients (cont....d)

SODIUM TETRABORATE DECAHYDRATE, DISODIUM  
TETRABORATE, BORAX

**REACH registered number(s):** 01-2119486683-25-XXXX  
**CAS number:** 10043-35-3  
**EC No:** 233-139-2  
**Synonyms:** BORIC ACID >20%

**REACH registered numbers(s):** 01-2119490974-22-XXXX  
**CAS number:** 7783-28-0  
**EC number:** 231-987-8  
**Synonyms:** DI-AMMONIUM HYDROGEN ORTHOPHOSPHATE >50%

**CAS number:** 518-747-8  
**EC number:** 208-253-0  
**Synonyms:** SODIUM FLUORESCHEIN <0.01%

### 4. FIRST AID MEASURES

#### 4.1. Description of first aid measures

**Skin contact:** Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor..

**Eye contact:** Bathe the eye with running water for 15 minutes. Consult a doctor.  
Ingestion: Wash out mouth with water. Consult a doctor.

**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

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

**Skin contact:** There may be mild irritation at the site of contact.

**Eye contact:** There may be redness and Irritation.

**Ingestion:** There may be irritation of the throat.

**Inhalation:** Dust in high concentrations may irritate the respiratory system.

**Delayed/ immediate effects:** Delayed effects can be expected after long-term exposure.

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

Immediate/ special treatment: Show this safety data sheet to the doctor in attendance.

### 5. FIRE-FIGHTING MEASURES

#### 5.1. Extinguishing media

**Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used.

#### 5.2. Special hazards arising from the substance or mixture

**Exposure hazards:** In combustion emits toxic fumes. Borane/boron oxides.

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### 5.3. Advice for fire-fighters

**Advice for fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions:** Refer to section 8 of SDS for personal protection details.  
Evacuate the area immediately. Do not create dust.

### 6.2. Environmental precautions

**Environmental precautions:** Do not discharge into drains or rivers. Alert the neighbourhood to the presence of fumes or gas.

### 6.3. Methods and material for containment and cleaning up

**Clean-up procedures:** Transfer to a closable, labelled salvage container for disposal by an appropriate method. Clean-up should be dealt with only by qualified personnel familiar with the specific substance.

### 6.4. Reference to other sections

**Reference to other sections:** Refer to section 8 of SDS.

## 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling

**Handling requirements:** Ensure there is sufficient ventilation of the area. Avoid the formation or spread of dust in the air.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage conditions:** Store in a cool, well ventilated area. Keep container tightly closed.

**Suitable packaging:** Must only be kept in original packaging.

### 7.3. Specific end use(s)

**PC14:** Metal surface treatment products, including galvanic and electroplating products.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION



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## 8.1. Control parameters

**Workplace exposure limits:** No data available.

### DNEL/PNEC Values

#### DNEL (Workers):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
diammonium hydrogenorthophosphate CAS: 7783-28-0 EC: 231-987-8	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	34.7 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	6.1 mg/m <sup>3</sup>	Non-applicable

#### DNEL (General population):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
diammonium hydrogenorthophosphate CAS: 7783-28-0 EC: 231-987-8	Oral	Non-applicable	Non-applicable	2.1 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	20.8 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	1.8 mg/m <sup>3</sup>	Non-applicable

#### PNEC:

Identification					
diammonium hydrogenorthophosphate CAS: 7783-28-0 EC: 231-987-8	STP	10 mg/L	Fresh water	1.7 mg/L	
	Soil	Non-applicable	Marine water	0.17 mg/L	
	Intermittent	17 mg/L	Sediment (Fresh water)	Non-applicable	
	Oral	Non-applicable	Sediment (Marine water)	Non-applicable	

## 8.2. Exposure controls

<b>Engineering measures:</b>	Ensure there is sufficient ventilation of the area.
<b>Respiratory protection:</b>	Self-contained breathing apparatus must be available in case of emergency.
<b>Hand protection:</b>	Protective gloves.
<b>Eye protection: Safety glasses.</b>	Ensure eye bath is to hand.
<b>Skin protection:</b>	Protective clothing.
<b>Environmental:</b>	Prevent from entering in public sewers or the immediate environment.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Clear liquid
<b>Colour</b>	Green/Yellow
<b>Odour</b>	Odourless
<b>Solubility</b>	Miscible with water
<b>pH-Value, Conc, Solution</b>	6.0 - 8.0
<b>Flash Point °C:</b>	Non Flammable
<b>Viscosity:</b>	No data available.
<b>Boiling point/range°C:</b>	300
<b>Melting point/range°C:</b>	160
<b>Flammability limits %:</b>	<b>lower:</b> No data available. <b>upper:</b> No data available.
<b>Part.coeff. n-octanol/water:</b>	No data available.
<b>Autoflammability°C:</b>	No data available.
<b>Vapour pressure:</b>	3.5hPa at 20 degC
<b>Relative density:</b>	1.44
<b>pH:</b>	5
<b>VOC g/l:</b>	No data available.

[cont...]

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## **10. STABILITY AND REACTIVITY**

### **10.1. Reactivity**

**Reactivity:** Stable under recommended transport or storage conditions.

### **10.2. Chemical stability**

**Chemical stability:** Stable under normal conditions.

### **10.3. Possibility of hazardous reactions**

**Hazardous reactions:** Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

### **10.4. Conditions to avoid**

**Conditions to avoid:** Water. Humidity.

### **10.5. Incompatible materials**

**Materials to avoid:** Avoid contact with strong reducing agents such as metal hydrides, acetic anhydride or alkali metals.

### **10.6. Hazardous decomposition products**

**Haz. decomp. products:** In combustion emits toxic fumes.

## **11. TOXICOLOGICAL INFORMATION**

### **11.1. Information on toxicological effects**

**Relevant hazards for substance:** Hazard Route Basis  
**Reproductive toxicity -- Hazardous:** calculated

#### **Symptoms/ routes of exposure**

<b>Skin contact:</b>	There may be mild irritation at the site of contact.
<b>Eye contact:</b>	There may be Irritation and redness.
<b>Ingestion:</b>	There may be irritation of the throat.
<b>Inhalation:</b>	Dust in high concentrations may irritate the respiratory system.
<b>Delayed/ immediate effects:</b>	Delayed effects can be expected after long-term exposure.
<b>Other information:</b>	Not applicable.

## **12. ECOLOGICAL INFORMATION**

### **12.1. Toxicity**

**Ecotoxicity values:** In case of accident or if you feel unwell, seek medical advice immediately (show the product label where possible).

[cont...d]

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Species	Test	Value	Units
Ptychocheilus lucius	96H LC50	279	mg/l
BLUEGILL ( <i>Lepomis macrochirus</i> )	96H LC50	1021	mg/l
Daphnia magna	LC50 21 d	53.2	mg/l
Daphnia magna	48H EC50	133	mg/l

## 12.2. Persistence and degradability

**Persistence and degradability:** Boron is naturally occurring and ubiquitous in the environment. Borax decahydrate decomposes in the environment to natural borate.

## 12.3. Bioaccumulative potential

**Bioaccumulative potential:** Not significantly Bio accumulative.

## 12.4. Mobility in soil

**Mobility:** The product is soluble in water and is leachable through normal soil.

## 12.5. Results of PBT and vPvB assessment

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

## 12.6. Other adverse effects

Other adverse effects: No data available.

## 13. DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

**Disposal operations:** Transfer to a suitable container and arrange for collection by specialised disposal company.

**Recovery operations:** Not applicable.

**Disposal of packaging:** Arrange for collection by specialised disposal company. NB: The user's attention is drawn to the possible existence of regional or national Regulations regarding disposal.

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## 14. TRANSPORT INFORMATION

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

**14.1. UN number** UN number: N/A

**14.2. UN proper shipping name** Not relevant

**14.3. Transport hazard class(es)** Not relevant

[cont...]

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- 14.4. Packing group** Not relevant
- 14.5. Environmental hazards** Environmentally Hazardous Substance/Marine Pollutant - NO
- 14.6. Special precautions for user**  
Special precautions: Not relevant
- 14.7. Transport in bulk according to AnnexII of MARPOL73/78 and the IBC Code**  
Transport in bulk: NOT APPLICABLE

## **15. REGULATORY INFORMATION**

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

<b>Statutory Instruments</b>	The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716) Control of Substances Hazardous to Health.
<b>Approved Code of Practice</b>	Safety Data Sheets for Substances and Preparations. Classification and Labelling of substances and preparations dangerous for supply.
<b>Guidance Notes</b>	Workplace Exposure Limits EH40
<b>EU Legislation</b>	Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC. Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP), amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. Regulation (EC) No 790/2009 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures (CLP). Commission Regulation (EU) No 453/2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). Regulation (EC) No 286/2011 amending Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures (CLP).
<b>Authorisations (Title VII Regulation 1907/2006)</b>	Contains an SVHC Candidate for Authorisation substance: Boric acid Boric acid, disodium salt
<b>Restrictions (Title VIII Regulation 1907/2006)</b>	Contains Toxic to Reproductive Health Category 1. Restricted to professional users.
<b>Water hazard classification</b>	WGK 1

- 15.2. Chemical Safety Assessment** A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

## **16. OTHER INFORMATION**

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

\* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: H360FD: May damage fertility. May damage the unborn child.

[cont...]

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R60 May impair fertility.

R61 May cause harm to the unborn baby.

**Legend to abbreviations:**

PNEC = predicted no effect level  
DNEL = derived no effect level  
LD50 = median lethal dose  
LC50 = median lethal concentration  
EC50 = median effective concentration  
IC50 = median inhibitory concentration  
dw = dry weight  
bw = body weight  
cc = closed cup  
oc = open cup  
MUS = mouse  
GPG = guinea pig  
RBT = rabbit  
HAM = hamster  
HMN = human  
MAM = mammal  
PGN = pigeon  
IVN = intravenous  
SCU = subcutaneous  
SKN = skin  
DRM = dermal  
OCC = ocular/corneal  
PCP = physico-chemical properties

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

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