

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 Solutions Ltd
Unit Z Hamstead Industrial Est,
Austin Way,
Birmingham, B42 1DU

Tel: (44) 07796 084914

Email: sales@alisco.co.uk

Contact: Rebekah Hale

1.4 Emergency No: +44 (0) 7796 084914 (office hours only)

Section2:Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and Chemical Hazards
Human health
Environment

Not classified
Repr. 1B – H360FD
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



Signal words: Danger

cont'd

Hazard statements: H360FD:

May damage fertility or the unborn child if swallowed.

Precautionary statements:

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

Supplementary Precautionary**Statements:**

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

Supplemental label information

RCH002 Restricted to professional users.

2.3. Other hazards**Signal Words:**

Toxic

Risk Phrases

R60: May impair fertility.
R61 May cause harm to the unborn child.

Safety Phrases

S53 Avoid exposure – obtain special instructions before use.
S45 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:**PBT:**

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

. 3. Composition/information on ingredients**3.1. Substances**

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

[cont...]

3.

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 FLUORESCIEIN <0.01%**Composition/information on ingredients (cont....d)****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.

[cont...]

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



8.1. Control parameters

Workplace exposure limits: No data available.

Cont'd

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 ³	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 ³	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

Engineering measures:

Ensure there is sufficient ventilation of the area.

Respiratory protection:

Self-contained breathing apparatus must be available in case of emergency.

Hand protection:

Protective gloves.

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection:

Protective clothing.

Environmental:

Prevent from entering in public sewers or the immediate environment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Clear liquid

Colour

Green/Yellow

Odour

Odourless

Solubility

Miscible with water

pH-Value, Conc, Solution

6.0 - 8.0

Flash Point °C:

Non Flammable

Viscosity:

No data available.

Boiling point/range°C:

300 Melting point/range°C: 160

Flammability limits %:

lower: No data available.

upper:

No data available.

Part.coeff. n-octanol/water:

No data available.

Autoflammability°C:

No data available.

Vapour pressure:

3.5hPa at 20 degC

Cont'd

VOC g/l: No data available.

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

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

Eye contact: There may be Irritation and redness.

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. **Other**
information: 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).

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Species	Test	Value	Units
Ptychocheilus lucius	96H LC50	279	mg/l
BLUEGILL (Lepomis macrochirus)	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.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal

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'd

14.4. Packing group

Not relevant

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant - NO

14.6. Special precautions for user 14.7. Transport in bulk according to AnnexII of MARPOL73/78 and the IBC Code

Transport in bulk: NOT APPLICABLE

Special precautions: Not relevant

15. REGULATORY INFORMATION**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Statutory Instruments**

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716) Control of Substances Hazardous to Health.

Approved Code of Practice

Safety Data Sheets for Substances and Preparations. Classification and Labelling of substances and preparations dangerous for supply.

Guidance Notes

Workplace Exposure Limits EH40

EU Legislation

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).

Authorisations (Title VII Regulation 1907/2006)

Contains an SVHC Candidate for Authorisation substance: Boric acid Boric acid, disodium salt

Restrictions (Title VIII Regulation 1907/2006)

Contains Toxic to Reproductive Health Category 1. Restricted to professional users.

Water hazard classification

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...]

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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