
SAFETY DATA SHEET

SECTION 1 Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

- Datasheet Number: 603043-r2
- Product Name: ALU FLUX 234 F
- Product Part Number: 603043

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

- Welding flux

1.3 Details of the supplier of the safety data sheet

Head Office:

Wilhelmsen Ships Service AS
Strandveien 20, N1324 Lysaker,
Norway Tel: (47) 6349 440 35

Supplier:

Wilhelmsen Ships Service AS
Willem Barentszstraat 50
3165AB Rotterdam
Telephone: +31 4877 777
Fax: +31 4877 888
The Netherlands

Other suppliers SEE SECTION 16!!!

For quotations contact your local Customer Services

- Responsible Person:

Product HSE Manager, Tel.: +31 10 4877775
Email: WSS.GLOBAL.SDSINFO@wilhelmsen.com

1.4 Emergency telephone number

- ****ONLY TO BE USED IN CASE OF AN INCIDENT****
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- American 24hrs Emergency CHEMTREC (800) 424 9300
- American Chemistry Council 24hrs +1 703 527 3887
- China NRCC 24hrs emergency telephone number: +86-0532-8388 9090
- Greece: Poisoning emergency center, +30 210 7793777
- International 24hrs Emergency NCEC: +44 1865 407333
- Norway: Poison information centre, +47 22591300
- Sweden: Poison information centre, +46 08 33 12 31
- Wilhelmsen Ships Service, Melbourne, AUSTRALIA Emergency 24hrs: +61 3 9630 0998

SECTION 2 Hazards identification**2.1 Classification of the substance or mixture**

- Regulations 1272/2008/EEC. Classification, labeling and packing of dangerous substances and preparations
- Symbols: GHS07
- Acute Tox. 4
- Harmful if swallowed.
-

SECTION 2 Hazards identification (....)

- Council Directive 1999/45/EEC Classification, packing and labelling of dangerous preparations.
- Refer to current The Dangerous Substances Directive (67/548/EEC)
 - Symbols: Xn
 - Harmful if swallowed

2.2 Label elements

Harmful

- Risk Phrases
Harmful if swallowed
- Safety Phrases
Do not breathe dust
Wear suitable protective clothing, eye/face protection and gloves
In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)
Use only in well ventilated areas
Avoid contact with skin

2.3 Other hazards

- Odour: Odourless
- Appearance: partly soluble in water, white, powder
- Contact with eyes: May cause irritation
- Inhalation: Inhalation of fumes formed during welding and or cutting may be harmful.

SECTION 3 Composition/information on ingredients**3.1 Mixtures**

- Lithium Fluoride
Concentration: <10%
CAS Number: 7789-24-4
EC Number: 232-152-0
R/H Phrases: R22, R36/37/38 - H301, H315, H319, H335
Symbols: T - GHS06
Categories: Acute Tox. 3, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3
- Non classified ingredients
Concentration: >90%
CAS Number: -
EC Number: -
R/H Phrases: -
Symbols: -
Categories:

SECTION 4 First aid measures**4.1 Description of first aid measures**

- IF ON SKIN: Wash with plenty of soap and water.

SECTION 4 First aid measures (....)

- Seek medical attention if irritation persists
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 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - Irrigate eyes thoroughly whilst lifting eyelids
 - Seek immediate medical attention
 -
 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
 - Give plenty of water to drink
 - Never make an unconscious person vomit or drink fluids
 - Seek immediate medical attention
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 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
 - Seek medical attention if irritation persists
- 4.2 Most important symptoms and effects, both acute and delayed
- Can cause damage to the eyes
 - May cause respiratory irritation.
 - Causes skin irritation.
 - Causes eye irritation.
- 4.3 Indication of any immediate medical attention and special treatment needed
- Treat symptomatically
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SECTION 5 Fire-fighting measures

- 5.1 Extinguishing media
- Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions
- 5.2 Special hazards arising from the substance or mixture
- Substance evolves toxic fumes, wear self-contained breathing apparatus
- 5.3 Advice for firefighters
- Substance evolves toxic fumes, wear self-contained breathing apparatus
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SECTION 6 Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
- Wear protective clothing as per section 8
- 6.2 Environmental Precautions
- Use appropriate containment to avoid environmental contamination
- 6.3 Methods and material for containment and cleaning up
- Absorb spillage in inert material and shovel up
 - Remove contaminated material to safe location for subsequent disposal
- 6.4 Reference to other sections
- None
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SECTION 7 Handling and storage

- 7.1 Precautions for safe handling
- Ensure adequate ventilation
 - Do not get in eyes, on skin, or on clothing.
 - Eyewash bottles should be available
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SECTION 7 Handling and storage (....)

- See Section 8
 - 7.2 Conditions for safe storage, including any incompatibilities
 - Keep only in the original container in a cool, well ventilated place
 - 7.3 Specific end use(s)
 - Not applicable
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SECTION 8 Exposure controls/personal protection

- 8.1 Control parameters
 - TLV (TWA) 5 mg/m³ (Welding fumes)
- 8.2 Exposure controls
 - Engineering controls should be provided which maintain airborne concentrations as low as practicable
- 8.3 Occupational exposure controls



Gloves



Suit



Visor



No Smoking

- Wear suitable protective clothing, including eye/face protection and gloves (leather are recommended)
 - Wear suitable filter lenses when welding / cutting.
 - In case of inadequate ventilation wear respiratory protection.
 - Wear suitable respiratory protection;P3
-

SECTION 9 Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
 - Odour: Odourless
 - Appearance: partly soluble in water, powder
 - pH 6.5 at 20C
 - Melting point 515 °C to 630 °C at 760 mm /Hg
 - 9.2 Other information
 - None
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SECTION 10 Stability and reactivity

- 10.1 Reactivity
 - This article is considered stable under normal conditions
 - 10.2 Chemical stability
 - Considered stable under normal conditions
 - 10.3 Possibility of hazardous reactions
 - No hazardous reactions known if used for its intended purpose
 - 10.4 Conditions to avoid
 - Avoid overheating
 - 10.5 Incompatible materials
 - Incompatible with acid
 - 10.6 Hazardous Decomposition Products
 - No hazardous decomposition products known
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SECTION 11 Toxicological information

11.1 Information on toxicological effects

- No experimental data available

11.2 Contact with eyes

- Can cause damage to the eyes

11.3 Contact with skin

- In cases of severe exposure, redness and irritation may develop

11.4 Ingestion

- By comparison with analogous substances, it is concluded that it may be harmful

11.5 Inhalation

- Inhalation of fumes formed during welding and or cutting may be harmful.
 - Danger of serious damage to health by prolonged exposure
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SECTION 12 Ecological information

12.1 Toxicity

- This product does not contain ingredients which are classified in the EU as dangerous for the environment.

12.2 Persistence and degradability

- Degrades by hydrolysis

12.3 Bioaccumulation Potential

- Bioaccumulation is insignificant

12.4 Mobility in soil

- Partially soluble in water.

12.5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII

12.6 Other Adverse Effects

- No environmental problems are expected when the product is used / handled correctly. In its intended use, the product will not be released into the environment.
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SECTION 13 Disposal considerations

13.1 Waste treatment methods

- Do not discharge into drains or the environment, dispose to an authorised waste collection point
 - Disposal should be in accordance with local, state or national legislation
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SECTION 14 Transport information

14.1 UN Number

- Not applicable

14.2 UN Proper Shipping Name

- Not applicable

14.3 Transport hazard class(es)

- Not applicable

14.4 Packing group

- Not applicable

14.5 Environmental hazards

SECTION 14 Transport information (....)

- On available data, substance is not harmful to the environment
- 14.6 Special precautions for user
- Not classified as hazardous for transport
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code
- Not applicable
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SECTION 15 Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- This Safety Data Sheet has been prepared in accordance with article 31 and annex II in REACH and Directive 453/2010/EU.
 - Council Directive 1999/45/EEC Classification, packing and labelling of dangerous preparations.
 - This Safety Data Sheet is provided in compliance with The Dangerous Substances Directive (67/548/EEC)
 - Classification according to Regulation (EC) No 1272/2008
- 15.2 Chemical Safety Assessment
- None
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SECTION 16 Other information

Text not given with phrase codes where they are used elsewhere in this safety data sheet:- H301: Toxic if swallowed. H315: Causes skin irritation. H319: Causes serious eye irritation. H335: May cause respiratory irritation. R22: Harmful if swallowed. R36/37/38: Irritating to eyes, respiratory system and skin.

The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents

The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other application(s) without seeking advice from manufacturer

The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product's properties

The most up-to-date version of this MSDS can be found on www.wilhelmsen.com/shipsservice

OTHER CONTACT INFORMATION MAJOR CHEMICAL OFFICES

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SECTION 16 Other information (....)

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