
SAFETY DATA SHEET

This Safety Data Sheet is provided in compliance with the EC Directive 1907/2006-453/2010

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

1.1 Product identifier

- Product Name: AG 60/45 FLUX 252 PF
- Product Part Number: 778461

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

- Use of the substance/mixture: SU3 Industrial Uses: Uses of substances as such or in preparations at industrial sites
- Use of the substance/mixture: Welding flux

1.3 Details of the supplier of the safety data sheet

- Name of Supplier: For quotations contact your local Customer Services
- Address of Supplier: Wilhelmsen Ships Service AS
Willem Barentszstraat 50
3165AB Rotterdam
The Netherlands
- Telephone: +31 10 4877 777
- Fax: +31 10 4877 888
- 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****
-
- 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: GHS08, GHS05, GHS07
- Repr. 1B
- May damage fertility or the unborn child
- Skin Corr. 1B
- Causes severe skin burns and eye damage.
- 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: T, C
- May impair fertility
- May cause harm to the unborn child
- Toxic if swallowed
- Causes burns

2.2 Label elements

-



-

- Contains:
 - CAS:10043-35-3, CAS7789-29-9
- Risk Phrases
 - May impair fertility
 - May cause harm to the unborn child
 - Toxic if swallowed
 - Causes burns
- Safety Phrases
 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
 - 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)
 - Dispose of this material and its container at hazardous or special waste collection point

2.3 Other hazards

- Not applicable
- Not a PBT according to REACH Annex XIII

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

- boric acid
 - CAS Number: 10043-35-3
 - EC Number: 233-139-2
 - Concentration: 25-50%
 - Repr. Cat. 2
 - R/H Phrases: R60, R61
 - Symbols: T
 - CLP: Repr. 1B
 - R/H Phrases: H360
 - Symbols: GHS08
- potassium bifluoride; potassium hydrogen difluoride
 - CAS Number: 7789-29-9
 - EC Number: 232-156-2

SECTION 3 Composition/information on ingredients (....)

Concentration: 20-25%

R/H Phrases: R25, R34

Symbols: T, C

CLP: Skin Corr. 1B, Acute Tox. 3

R/H Phrases: H301, H314

Symbols: GHS06, GHS05

SUBSTANCES OF VERY HIGH CONCERN (SVHC) ACCORDING TO REACH, ARTICLE 57: CAS:10043-35-3 (Boric acid)

SECTION 4 First aid measures

4.1 Description of first aid measures

- IF ON SKIN: Wash with plenty of soap and water.
- IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- When in doubt or symptoms persist, seek medical attention
- IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- Give plenty of water to drink

4.2 Most important symptoms and effects, both acute and delayed

- Can cause damage to the eyes
- Causes blistering of the skin

4.3 Indication of any immediate medical attention and special treatment needed

- No information available
-

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

- No hazard expected under normal conditions of use

5.3 Advice for firefighters

- Wear protective clothing as per section 8
-

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

- Do not allow to enter public sewers and watercourses

6.3 Methods and material for containment and cleaning up

- Ventilate the area and wash spill site after material pick-up is complete

6.4 Reference to other sections

- See Section 8, 13
-

SECTION 7 Handling and storage

SECTION 7 Handling and storage (....)

7.1 Precautions for safe handling

- Ensure adequate ventilation
- Use personal protective equipment as required.
- See Section 8

7.2 Conditions for safe storage, including any incompatibilities

- Store in a dry place. Store in a closed container.
- Store in a dry place.

7.3 Specific end use(s)

- No special requirements
-

SECTION 8 Exposure controls/personal protection

8.1 Control parameters

- WEL (long term) CAS:7789-29-9 - 2.5 mg/m³

8.2 Exposure controls

- No special precautions are required for this product

8.3 Occupational exposure controls

- Wear goggles giving complete eye protection
- Wear neoprene or nitrile gloves
- Respiratory protection may be required under exceptional circumstances when excessive air contamination exists
- Wear suitable respiratory protection;P3



SECTION 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance: paste, insoluble in water, colourless, Varies according to substance
- Odour: Characteristic odour
- pH: pH - not applicable

9.2 Other information

- No information available
-

SECTION 10 Stability and reactivity

10.1 Reactivity

- This article is considered stable under normal conditions

10.2 Chemical stability

- This article is 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

- No special precautions are required for this product

10.5 Incompatible materials

- Incompatible with acids and alkalis
- Incompatible with oxidizing substances

10.6 Hazardous Decomposition Products

SECTION 10 Stability and reactivity (....)

- Decomposition products may include hydrogen
-

SECTION 11 Toxicological information

11.1 Information on toxicological effects

- LD50 (oral,rat) (Boric acid - 2660 mg/kg)

11.2 Contact with eyes

- Can cause damage to the eyes

11.3 Contact with skin

- May cause blistering of the skin

11.4 Ingestion

- Can cause damage to the stomach lining

11.5 Inhalation

- No information available
-

SECTION 12 Ecological information

12.1 Toxicity

- Not available

12.2 Persistence and degradability

- No information available

12.3 Bioaccumulation Potential

- No information available

12.4 Mobility in soil

- No information available

12.5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII

12.6 Other Adverse Effects

- No information available
-

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
-

SECTION 14 Transport information

14.1 Environmental hazards

- Presents no hazard to the environment

14.2 Special precautions for user

- No special precautions are required for this product

14.3 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

- Not applicable
-

SECTION 14 Transport information (....)

14.4 UN

- Proper Shipping Name: TOXIC SOLID, CORROSIVE, INORGANIC, N.O.S. (POTASSIUM HYDROGENDIFLUORIDE)
- UN No.: UN3290
- Hazard Class: 6.1 + 8
- Packing Group: II

14.5 Road/Rail (ADR/RID)

- Proper Shipping Name: TOXIC SOLID, CORROSIVE, INORGANIC, N.O.S. (POTASSIUM HYDROGENDIFLUORIDE)
- ADR UN No.: UN3290
- ADR Hazard Class: 6.1
- ADR Packing Group: II
- ADR subrisk: 8
- ADR Flashpoint: Not applicable

14.6 Sea (IMDG)

- Proper Shipping Name: TOXIC SOLID, CORROSIVE, INORGANIC N.O.S. (POTASSIUM HYDROGENDIFLUORIDE)
- IMDG UN No.: UN3290
- IMDG Hazard Class: 6.1
- IMDG Pack Group.: II
- IMDG EmS: F-A, S-B
- IMDG subrisk: 8
- IMDG Flashpoint: Not applicable

14.7 Air (ICAO/IATA)

- Proper Shipping Name: TOXIC SOLID, CORROSIVE, INORGANIC, N.O.S. (POTASSIUM HYDROGENDIFLUORIDE)
- ICAO UN No.: UN3290
- ICAO Hazard Class: 6.1
- ICAO Packing Group: II
- ICAO subrisk: 8
- ICAO Flashpoint: Not applicable

14.8 DOT / CFR (US Department of Transportation)

- DOT Proper Shipping Name: TOXIC, SOLID, CORROSIVE, INORGANIC, N.O.S. (POTASSIUM HYDROGENDIFLUORIDE)
 - Hazardous Material: POTASSIUM HYDROGENDIFLUORIDE
 - Hazard Class: 6.1
 - Identification Number: UN3290
 - Product RQ (lbs): Not applicable
 - DOT subrisk: 8
 - DOT Flashpoint: Not applicable
-

SECTION 15 Regulatory information

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

- This Safety Data Sheet is provided in compliance with the EC Directive 1907/2006-453/2010

SECTION 15 Regulatory information (....)

- - Classification according to Regulation (EC) No 1272/2008
- 15.2 Chemical Safety Assessment
- Not available
-

SECTION 16 Other information

Text not given with phrase codes where they are used elsewhere in this safety data sheet:- H301: Toxic if swallowed. H314: Causes severe skin burns and eye damage. H360: May damage fertility or the unborn child. R25: Toxic if swallowed. R34: Causes burns. R60: May impair fertility. R61: May cause harm to the unborn child.

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 SDS can be found on www.wilhelmsen.com/shipsservice

OTHER CONTACT INFORMATION MAJOR CHEMICAL OFFICES

Wilhelmsen Ships Service Level 17, 636 St Kilda Road Melbourne Vic 3004 AUSTRALIA

Tel: +61 3 9630 0900 Emergency 24hrs: +61 3 9630 0998

Wilhelmsen Ships Service INC 210 Edgewater Street US-10305 Staten Island New York United States Telephone daytime: (+1) 718 815 1310 Fax: (+1) 718 233 3268

Wilhelmsen Ships Service INC 2200 W. Pacific Coast Highway US-90810 Long Beach California, United States Tel (+1) 562 624 8888 Fax (+1) 562 624 1011

Wilhelmsen Ships Service INC 701 Ashland Ave. Ashland Center Two, Bay 12 US- 19032 Folcroft Pennsylvania United States Tel (+1) 610 586 7801 Fax (+1) 215 701 0646

Wilhelmsen Ships Service INC 701 Ashland Ave. Ashland Center Two, Bay 12 US- 19032 Folcroft Pennsylvania United States Tel (+1) 610 586 7801 Fax (+1) 215 701 0646

Wilhelmsen Ships Service INC. 9400 New Century Drive US-77507 Pasadena Texas United States Telephone daytime: (+1) 281 867 2000 Fax: (+1) 281 867 2800

Wilhelmsen Ships Service Ltd. Unit 3A NewtonsCourt Crossways DA2 6QL Dartford, Kent United Kingdom Tel (+44) 1322 282 412 Fax (+44) 1322 284 774

Wilhelmsen Ships Service Ltda Rua Bispo Lacerda nos.61/67 Del Catilho BR 21051120 Rio de Janeiro Brazil Tel (+55) 21 25 82 8000 Fax (+55) 21 25 82 8001

Wilhelmsen Ships Service (S) Pte Ltd 186 Pandan Loop Singapore 128376 Tel (+65) 6395 4545

Wilhelmsen Ships Service Co., Ltd 12-31 Torihama-cho Kanazawa-ku Yokohama-shi JP-236 0002, Japan Tel (+81) 45 775 0012 Fax (+81) 45 775 0070

Wilhelmsen Ships Service Hellas SA 100, D. Moutsopoulou & Serifou str GR-185 41 Piraeus Greece Tel (+ 30) 210 4239100 Fax (+ 30) 210 4212480

Wilhelmsen Ships Service AS U.A.E . FI 24 Executive Heights, Tecom C Sheikh Zayed Road (East) Dubai United Arab Emirates Tel (+971) 4 382 3888

