



According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

## SAFETY DATA SHEET

# AG Fluoron liquid

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

*Trade name:* AG Fluoron liquid  
*Product no.:* FL21488-FL21489  
*Unique formula identifier (UFI):* 54VF-A17N-HEJR-UPVS

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

*Relevant identified uses of the substance or mixture:* Fluxing agent  
Restricted to professional users.  
*Uses advised against :* None known.

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

*Company and address:* **Aktiv Guld A/S**  
Vallensbækvej 46  
2625 Vallensbæk  
Denmark  
+45 43 66 20 00  
<https://www.aktivguld.com/>  
*E-mail:* [ag@aktivguld.com](mailto:ag@aktivguld.com)  
*Revision:* 03/09/2025  
*SDS Version:* 9.0  
*Date of previous version:* 08/08/2025 (9.0)

#### 1.4. Emergency telephone number

Contact the poison hotline: +45 82 12 12 12 (24 hour service)  
See section 4 "First aid measures".

### SECTION 2: HAZARDS IDENTIFICATION

Classified according to Regulation (EC) No. 1272/2008 (CLP).

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

Skin Irrit. 2; H315, Causes skin irritation.  
Eye Dam. 1; H318, Causes serious eye damage.  
Repr. 1B; H360, May damage fertility or the unborn child.

## 2.2. Label elements

*Hazard pictogram(s):*



*Signal word:*

Danger

*Hazard statement(s):*

Causes skin irritation. (H315)

Causes serious eye damage. (H318)

May damage fertility or the unborn child. (H360)

*Precautionary statement(s):*

*General:*

Not applicable.

*Prevention:*

Obtain special instructions before use. (P201)

Wash hands and exposed skin thoroughly after handling. (P264)

Wear face protection/protective gloves/protective clothing. (P280)

*Response:*

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)

IF exposed or concerned: Get medical advice/attention. (P308+P313)

*Storage:*

Not applicable.

*Disposal:*

Dispose of contents/container in accordance with local regulation.

(P501)

*Hazardous substances:*

disodium tetraborate, anhydrous; disodium tetraborate pentahydrate; disodium tetraborate decahydrate; tetraboron disodium heptaoxide, hydrate; orthoboric acid, sodium salt  
boric acid

phosphoric acid ... %, orthophosphoric acid ... %

*Additional labelling:*

Restricted to professional users.

UFI: 54VF-A17N-HEJR-UPVS

## 2.3. Other hazards

*Additional warnings:*

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated

Regulation (EU) 2017/2100 or Commission Regulation (EU) 2023/707.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Substances

Not applicable. This product is a mixture.

#### 3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
disodium tetraborate, anhydrous; disodium tetraborate pentahydrate; disodium tetraborate decahydrate; tetraboron disodium heptaoxide, hydrate; orthoboric acid, sodium salt	CAS No.: 1303-96-4 EC No.: 603-411-9 REACH: Index No.: 005-011-00-4	10-25%	Repr. 1B, H360FD	[5]
boric acid	CAS No.: 10043-35-3 EC No.: 233-139-2 REACH: 01-2119486683-25-XXXX Index No.: 005-007-00-2	5-10%	Repr. 1B, H360	[5]
phosphoric acid ... %, orthophosphoric acid ... %	CAS No.: 7664-38-2 EC No.: 231-633-2 REACH: 01-2119485924-24-XXXX Index No.: 015-011-00-6	1-5%	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1B, H314 (SCL: 25.00 %) Skin Irrit. 2, H315 (SCL: 10.00 %) Eye Dam. 1, H318 Eye Irrit. 2, H319 (SCL: 10.00 %)	[1]
Ammonia ....%	CAS No.: 1336-21-6 EC No.: 215-647-6 REACH: 01-2119982985-14-XXXX Index No.: 007-001-01-2	≤1%	Skin Corr. 1B, H314 Aquatic Acute 1, H400 (M=1)	

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

#### Other information

[1] European occupational exposure limit.

[5] Substance is included in the Candidate List of substances of very high concern (SVHC).

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

*General information:*

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

*Inhalation:*

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

*Skin contact:*

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners. If skin irritation occurs: Get medical advice/attention.

*Eye contact:*

If in eyes: Flush eyes with plenty of water or salt water (20-30 °C) for at least 30 minutes and continue until irritation stops. Remove contact lenses. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.

*Ingestion:*

If the person is conscious, rinse the mouth with water and stay with the person. Never give the person anything to drink. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the person lean forward with head down to avoid inhalation of or choking on vomited material.

*Burns:*

Not applicable.

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

The product contains substances that cause serious eye damage. Contact with these substances can cause irreversible effects on the eye / serious eye damage.

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

IF exposed or concerned:

Get immediate medical advice/attention.

### Information to medics

Bring this safety data sheet or the label from this product.

## SECTION 5: FIREFIGHTING MEASURES

### **5.1. Extinguishing media**

Not applicable.

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

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

### **5.3. Advice for firefighters**

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact the chemical emergency services on 72 85 20 00 (24 h service) in order to obtain further advice.

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## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

Avoid direct contact with spilled substances.  
Ensure adequate ventilation, especially in confined areas.  
Contaminated areas may be slippery.

### **6.2. Environmental precautions**

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities.

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

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.  
Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

### **6.4. Reference to other sections**

See section 13 "Disposal considerations" on handling of waste.  
See section 8 "Exposure controls/personal protection" for protective measures.

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## **SECTION 7: HANDLING AND STORAGE**

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### **7.1. Precautions for safe handling**

Avoid direct contact with the product.  
Avoid contact during pregnancy and while nursing.  
Smoking, drinking and consumption of food is not allowed in the work area.  
See section 8 "Exposure controls/personal protection" for information on personal protection.

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

Store locked up. A sign warning of toxic materials shall be affixed the room and cupboard containing the product(s).

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

*Recommended storage material:* Always store in containers of the same material as the original container.

*Storage conditions:* No specific requirements.

*Incompatible materials:* Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

### 7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

disodium tetraborate, anhydrous; disodium tetraborate pentahydrate; disodium tetraborate decahydrate; tetraboron disodium heptaoxide, hydrate; orthoboric acid, sodium salt

Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 2

Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 4

Annotations:

H = The substance can be absorbed through the skin.

phosphoric acid ... %, orthophosphoric acid ... %

Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 1

Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 2

Annotations:

E = Substance has an EC limit.

Statutory order 1619 on exposure limits for substances and mixtures (19/12/2024)

### DNEL

boric acid

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	196 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	392 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	4.15 mg/m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	8.3 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Oral	980 µg/kg bw/day
Short term – Systemic effects - General population	Oral	980 µg/kg bw/day

phosphoric acid ... %, orthophosphoric acid ... %

Duration:	Route of exposure:	DNEL:
Long term – Local effects - General population	Inhalation	360 µg/m <sup>3</sup>

Long term – Local effects - Workers	Inhalation	1 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Inhalation	4.57 mg/m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	10.7 mg/m <sup>3</sup>
Short term – Local effects - Workers	Inhalation	2 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Oral	100 µg/kg bw/day

## PNEC

boric acid

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		2.9 mg/L
Intermittent release (freshwater)		13.7 mg/L
Marine water		2.9 mg/L
Sewage treatment plant		10 mg/L
Soil		5.7 mg/kg

## 8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

*General recommendations:*

Smoking, drinking and consumption of food is not allowed in the work area.

*Exposure scenarios:*

There are no exposure scenarios implemented for this product.

*Exposure limits:*

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

*Appropriate technical measures:*

Do not recirculate outlet air that contain the substances.  
The formation of vapours must be kept at a minimum and below current limit values (see above).  
Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.  
Ensure that eyewash stations and safety showers are located within easy reach.  
Apply standard precautions during use of the product. Avoid inhalation of vapours.

*Hygiene measures:*

Take off contaminated clothing and wash it before reuse.


*Measures to avoid environmental exposure:*

Keep damming materials near the workplace. If possible, collect spillage during work.


## Individual protection measures, such as personal protective equipment

*Generally:* Use only CE marked protective equipment.


*Respiratory Equipment:*

Type	Class	Colour	Standards	
Combination filter A1B1E1K1-P3	Class 1/3	Brown/Gray/Yellow/ Green/White	EN14387	


*Skin protection:*

Recommended	Type/Category	Standards	
Dedicated work clothing should be worn.	-	-	

*Hand protection:*

Work situation	Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Change gloves often.	Nitrile	0,3	> 480	EN374-2, EN16523-1, EN388	

*Eye protection:*

Type	Standards	
Face shield alternatively safety glasses with side shields.	EN166	

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

<i>Physical state:</i>	Liquid
<i>Colour:</i>	Yellowish
<i>Odour / Odour threshold:</i>	Characteristic
<i>pH:</i>	8
<i>Density (g/cm<sup>3</sup>):</i>	1.13 (20 °C)
<i>Kinematic viscosity:</i>	No data available.
<i>Particle characteristics:</i>	Does not apply to liquids.

### Phase changes

<i>Melting point/Freezing point (°C):</i>	No data available.
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<i>Softening point/range (°C):</i>	Does not apply to liquids.
<i>Boiling point (°C):</i>	110
<i>Vapour pressure:</i>	No data available.
<i>Relative vapour density:</i>	No data available.
<i>Decomposition temperature (°C):</i>	No data available.

### Data on fire and explosion hazards

<i>Flash point (°C):</i>	No data available.
<i>Flammability (°C):</i>	No data available.
<i>Auto-ignition temperature (°C):</i>	No data available.
<i>Lower and upper explosion limit (% v/v):</i>	No data available.

### Solubility

<i>Solubility in water:</i>	Completely soluble
<i>n-octanol/water coefficient (LogKow):</i>	No data available.
<i>Solubility in fat (g/L):</i>	No data available.

### 9.2. Other information

<i>Other physical and chemical parameters:</i>	No data available.
<i>Oxidizing properties:</i>	No data available.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

### 10.3. Possibility of hazardous reactions

None known.

### 10.4. Conditions to avoid

None known.

### 10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: TOXICOLOGICAL INFORMATION

## **11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

### **Acute toxicity**

Based on available data, the classification criteria are not met.

### **Skin corrosion/irritation**

Causes skin irritation.

### **Serious eye damage/irritation**

Causes serious eye damage.

### **Respiratory sensitisation**

Based on available data, the classification criteria are not met.

### **Skin sensitisation**

Based on available data, the classification criteria are not met.

### **Germ cell mutagenicity**

Based on available data, the classification criteria are not met.

### **Carcinogenicity**

Based on available data, the classification criteria are not met.

### **Reproductive toxicity**

May damage fertility or the unborn child.

### **STOT-single exposure**

Based on available data, the classification criteria are not met.

### **STOT-repeated exposure**

Based on available data, the classification criteria are not met.

### **Aspiration hazard**

Based on available data, the classification criteria are not met.

## **11.2. Information on other hazards**

### **Long term effects**

Reproductive toxicity: This product contains teratogenic substances, which may produce anomalies and/or developmental defects to the human offspring. Adverse effects include: death, growth retardation, congenital disorders, delayed mental development, and functional disorders. This product contains reprotoxic substances, which may harm the reproductive capacity. Adverse effects include: sterility, effects on the sexual function, lowered effective fertility and dysfunctional menstrual cycle.

The product contains substances that cause serious eye damage. Contact with these substances can cause irreversible effects on the eye / serious eye damage.

### **Endocrine disrupting properties**

This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health.

### **Other information**

None known.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Based on available data, the classification criteria are not met.

### 12.2. Persistence and degradability

Based on available data, the classification criteria are not met.

### 12.3. Bioaccumulative potential

Based on available data, the classification criteria are not met.

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

### 12.6. Endocrine disrupting properties

This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

### 12.7. Other adverse effects

This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste. (\*)

HP 8 – Corrosive

HP 10 – Toxic for reproduction

Dispose of contents/container to an approved waste disposal plant.

Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

*EWC code:*

16 05 07\*

Discarded inorganic chemicals consisting of or containing dangerous substances

#### Specific labelling

Not applicable.

#### Contaminated packing

*EWC code:*

15 02 02\*

Absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances

15 01 10\*

Packaging containing residues of or contaminated by dangerous substances

Waste group:

Gr. H

Waste with low energy content

## SECTION 14: TRANSPORT INFORMATION

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other informat ion:
ADR	-	-	-	-	-	-
IMDG	-	-	-	-	-	-
IATA	-	-	-	-	-	-

\* Packing group

\*\* Environmental hazards

### Additional information

Not dangerous goods according to ADR, IATA and IMDG.

### 14.6. Special precautions for user

Not applicable.

### 14.7. Maritime transport in bulk according to IMO instruments

No data available.

## SECTION 15: REGULATORY INFORMATION

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

*Restrictions for application:*

Restricted to professional users.

People under the age of 18 shall not be exposed to this product.

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

*Demands for specific education:*

No specific requirements.

*SEVESO - Categories / dangerous substances:*

Not applicable.

*Additional information:*

Not applicable.

*Sources:*

The Danish Working Environment Authority's executive order no. 1049 of 30 May 2021 on young people's work. Based on Council Directive 94/33 / EC of 22 June 1994 on the protection of young people at work.

Pregnant workers and workers who are breastfeeding (AT Guide A.1.8-6, amended 2024).

Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.  
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP).  
Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

## 15.2. Chemical safety assessment

No

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## SECTION 16: OTHER INFORMATION

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### Full text of H-phrases as mentioned in section 3

H290, May be corrosive to metals.  
H302, Harmful if swallowed.  
H314, Causes severe skin burns and eye damage.  
H315, Causes skin irritation.  
H318, Causes serious eye damage.  
H319, Causes serious eye irritation.  
H360, May damage fertility or the unborn child.  
H360FD, May damage fertility. May damage the unborn child.  
H400, Very toxic to aquatic life.

### Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway  
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road  
ATE = Acute Toxicity Estimate  
BCF = Bioconcentration Factor  
CAS = Chemical Abstracts Service  
CE = Conformité Européenne (European conformity)  
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
CSA = Chemical Safety Assessment  
CSR = Chemical Safety Report  
DMEL = Derived Minimal Effect Level  
DNEL = Derived No Effect Level  
EINECS = European Inventory of Existing Commercial chemical Substances  
ES = Exposure Scenario  
EUH statement = CLP-specific Hazard statement  
EuPCS = European Product Categorisation System  
EWC = European Waste Catalogue

GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
GWP = Global warming potential  
IARC = International Agency for Research on Cancer (IARC)  
IATA = International Air Transport Association  
IBC = Intermediate Bulk Container  
IMDG = International Maritime Dangerous Goods  
LogPow = logarithm of the octanol/water partition coefficient  
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
OECD = Organisation for Economic Co-operation and Development  
PBT = Persistent, Bioaccumulative and Toxic  
PNEC = Predicted No Effect Concentration  
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail  
RRN = REACH Registration Number  
SCL = A specific concentration limit  
SVHC = Substances of Very High Concern  
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure  
STOT-SE = Specific Target Organ Toxicity - Single Exposure  
TWA = Time weighted average  
UN = United Nations  
UVBC = Unknown or variable composition, complex reaction products or of biological materials  
VOC = Volatile Organic Compound  
vPvB = Very Persistent and Very Bioaccumulative

#### **Additional information**

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP).

#### **The safety data sheet is validated by**

Aktiv Guld A/S

#### **Other**

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product.

Information in this safety data sheet cannot be used as a product specification.

Country-language: DK-en