

**SAFRANIN SOLUTION 0,25 w/v-% (1+9)**

Date 31.5.2011

Previous date: -

**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Product identifier****1.1.1 Commercial Product Name**

SAFRANIN SOLUTION 0,25 w/v-% (1+9)

**1.1.2 Product code**

FF203 1 L

**1.2 Relevant identified uses of the substance or mixture and uses advised against****1.2.1 Recommended use**

MP0112 - Laboratory use: R&amp;D laboratory use

**1.3 Details of the supplier of the safety data sheet****1.3.1 Supplier**

Oy FF-Chemicals Ab

**P.O.Box**

Teollisuustie 4

**Postcode and post office**

FI-90830 Haukipudas

Finland

**Telephone**

+358 (0)8 5563 193

**Telefax**

+358 (0)8 5563 194

**Email**

ffc@ff-chemicals.fi

**1.4 Emergency telephone number****1.4.1 Telephone number, name and address**

Emergency telephone number 112

**2. HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture****1272/2008 (CLP)**

Flam. Liq. 3, H226

**67/548/EEC - 1999/45/EC**

R10

**2.2 Label elements****1272/2008 (CLP)**

GHS02

Signal word

**Warning****Hazard Statements**

H226

Flammable liquid and vapour.

**Precautionary Statements**

P210

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P233

Keep container tightly closed.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P403+P235

Store in a well-ventilated place. Keep cool.

P501

Dispose of contents/container to [ ].

**2.3 Other hazards****3. COMPOSITION/INFORMATION ON INGREDIENTS****3.2 Mixtures****Hazardous components**

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CAS/EC and Reg. number	Chemical name of the substance	Concentration Classification	
477-73-6	Safranin	0,25%	Xi; R36/38 Skin Irrit. Cat 2 H315 Eye Irrit. Cat 2 H319
64-17-5	ethanol	7,3%	F; R11; Flam. Liq. 2, H225

**4. FIRST AID MEASURES****4.1 Description of first aid measures**

Move the victim to fresh air.

**4.1.2 Inhalation**

If breathed in, move person into fresh air.

**4.1.3 Skin contact**

In case of contact, immediately flush skin with soap and plenty of water.

**4.1.4 Eye contact**

If in eyes, rinse with water for 15 minutes. Call a physician if irritation develops or persists.

**4.1.5 Ingestion**

Rinse mouth with water. Contact a poison control centre.

**4.2 Most important symptoms and effects, both acute and delayed**

Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. May irritate eyes.

**4.3 Indication of immediate medical attention and special treatment needed****5. FIREFIGHTING MEASURES****5.1 Extinguishing media****5.1.1 Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**5.1.2 Extinguishing media which must not be used for safety reasons**

no data available

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

Vapours may ignite and explode.

**5.3 Advice for firefighters**

In the event of fire and/or explosion do not breathe fumes.

**6. ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Remove all sources of ignition.

**6.2 Environmental precautions**

Should not be released into the environment.

**6.3 Methods and materials for containment and cleaning up**

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

**6.4 Reference to other sections**

4, 8, 13

**7. HANDLING AND STORAGE**

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- 7.1 Precautions for safe handling**  
Avoid breathing vapours, mist or gas. Do not get on skin or clothing. Keep away from open flames, hot surfaces and sources of ignition.
- 7.2 Conditions for safe storage, including any incompatibilities**  
Keep container tightly closed. Keep container in a well-ventilated place. Keep away from sources of ignition - No smoking.
- 7.3 Specific end use(s)**

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

- 8.1 Control parameters**
- 8.1.1 Threshold limits**
- |         |         |                              |                                 |
|---------|---------|------------------------------|---------------------------------|
| 64-17-5 | ethanol | 1000 ppm (8 h)               | 1300 ppm (15 min)               |
|         |         | 1900 mg/m <sup>3</sup> (8 h) | 2500 mg/m <sup>3</sup> (15 min) |
- 8.2 Exposure controls**
- 8.2.1 Appropriate engineering controls**  
Ensure adequate ventilation, especially in confined areas.
- 8.2.2 Individual protection measures**
- 8.2.2.2 Hand protection**  
Protective gloves
- 8.2.2.3 Eye/face protection**  
Goggles
- 8.2.2.4 Skin protection**  
Lab coat

**9. PHYSICAL AND CHEMICAL PROPERTIES**

- 9.1 Important Health Safety and Environmental Information**
- 9.1.1 Appearance**  
Liquid, coloured, reddish-violet
- 9.1.2 Odour**  
slightly alcohol-like
- 9.1.4 pH**  
no data available
- 9.1.5 Melting point/freezing point**  
no data available
- 9.1.6 Initial boiling point and boiling range**  
78,5 °C (Ethanol)
- 9.1.7 Flash point**  
13 °C (Ethanol)
- 9.1.8 Evaporation rate**  
no data available
- 9.1.9 Flammability (solid, gas)**  
Flammable liquid
- 9.1.10 Explosive properties**
- 9.1.10.1 Lower explosion limit**  
3,3 vol-% ethanol
- 9.1.10.2 Upper explosion limit**  
19 vol-% ethanol
- 9.1.11 Vapour pressure**  
5,8 kPa (20 °C, ethanol)
- 9.1.12 Vapour density**  
no data available
- 9.1.13 Relative density**  
no data available
- 9.1.14 Solubility(ies)**
- 9.1.14.1 Water solubility**  
soluble
- 9.1.16 Auto-ignition temperature**  
no data available
- 9.1.17 Decomposition temperature**  
no data available
- 9.1.18 Viscosity**  
no data available
- 9.1.19 Explosive properties**  
no data available
- 9.1.20 Oxidising properties**  
no data available

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**9.2 Other information****10. STABILITY AND REACTIVITY**

- 10.1 Reactivity**  
Information refers to the main component.  
(Ethanol)
- 10.2 Chemical stability**  
Stable under normal conditions.
- 10.3 Possibility of hazardous reactions**  
no data available
- 10.4 Conditions to avoid**  
Heating can release vapours which can be ignited.
- 10.5 Incompatible materials**  
Strong oxidizing agents, Acids and bases
- 10.6 Hazardous decomposition products**  
Carbon oxides

**11. TOXICOLOGICAL INFORMATION**

- 11.1 Information on toxicological effects**
- 11.1.1 Acute toxicity**  
Information refers to the main component.  
LD50/oral/rat = 7060 mg/kg

**12. ECOLOGICAL INFORMATION**

- 12.1 Toxicity**
- 12.1.1 Aquatic toxicity**  
No data is available on the product itself.
- 12.2 Persistence and degradability**
- 12.3 Bioaccumulative potential**  
Bioaccumulation is unlikely.
- 12.4 Mobility in soil**
- 12.5 Results of PBT and vPvB assessment**
- 12.6 Other adverse effects**

**13. DISPOSAL CONSIDERATIONS**

- 13.1 Waste treatment methods**  
160506 - laboratory chemicals consisting of or containing dangerous substances including mixtures of laboratory chemicals
- 13.2 Waste from residues / unused products**  
The product has to be disposed of as laboratory chemical in accordance with local regulations.

**14. TRANSPORT INFORMATION**

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	<b>Land transport ADR/RID</b>	<b>Sea transport IMDG/IMO</b>	<b>Air transport ICAO/IATA</b>
<b>14.1 UN number</b>	1170	1170	
<b>14.2 UN proper shipping name</b>	ETHANOL	ETHANOL	
<b>14.3 Transport hazard class(es)</b>	3	3	
<b>14.4 Packing group</b>	III	III	
<b>14.5 Environmental hazards</b>			
<b>Other information</b>			

**14.6 Special precautions for users****14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code****15. REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
WEL substance.  
(Ethanol)**15.2 Chemical safety assessment****16. OTHER INFORMATION****16.4 Classification procedure**

Calculation method. REGULATION (EC) No 1272/2008

**16.5 List of relevant R phrases, hazard statements, safety phrases and/or precautionary statements**

R10 Flammable.

**16.6 Training advice**

Provide adequate information, instruction and training for operators.

**16.8 Additional information available from:**

Oy FF-Chemicals Ab, Tel. +358 8-5563 193

ffc@ff-chemicals.fi

The information contained herein is based on the present state of our knowledge and does therefore not guarantee certain properties.