

## Material Safety Datasheet (MSDS)



### 1. Product and company identification

Product identifier .....  
Product uses .....  
Supplier .....  
  
Emergency telephone number .....

**Additive FS 100X (reference: TP10007)**  
Only for in vitro use in research and analysis laboratories.  
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### 2. Hazards identification

Classification of the product.....  
Label elements of EC regulation N° 1272/2008.....  
  
Label elements of directive N° 67/548/EEC.....  
  
Other hazards .....

Acute toxicity (Category 4); skin irritation (category 2); eyes irritation (Category 2)  
H302: Harmful if swallowed, H315: causes skin irritation, H319: causes serious eye irritation, P305/351/338: If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
  
  
Pictogram: Warning  
R22: Harmful if swallowed, R36/38: irritating to eyes and skin, S46: if swallowed, seek medical advice immediately and show this container or label.  
  
  
Hazard symbol(s)  
None, safety data sheet available upon request.

### 3. Composition / information on ingredients

Components	Concentration	CAS n°	EC n°	Classification
FeSO <sub>4</sub> .7H <sub>2</sub> O	> 100 % (powder) < 10 % after resuspension	7782-63-0	231-753-5	if ≥ 1%: acute toxicity (Category 4); skin irritation (category 2); eyes irritation (Category 2);

### 4. First aid measures

Description of first aid measures.....  
  
Most important symptoms and effects, both acute and delayed...  
  
Immediate medical attention and special treatment .....

Consult a physician. Show this safety data sheet to the doctor in attendance. If breathed in, move person into fresh air. If not breathing, give artificial respiration. In case of skin contact, wash off with soap and plenty of water. In case of eye contact, rinse thoroughly with plenty of water for at least 15 minutes. If swallowed, never give anything by mouth to an unconscious person. Rinse mouth with water. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.  
No data available.

### 5. Firefighting measures

Extinguishing media .....  
  
Special hazards arising from the substance or mixture.....  
Advice for firefighters .....

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.  
Sulfur oxides, iron oxides.  
Wear self contained breathing apparatus for firefighting if necessary.

### 6. Accidental release measures

Personal precautions and emergency procedures .....  
  
Environmental precautions .....

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.  
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Cleaning methods .....	Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.
Reference to other sections .....	For disposal see section 13.

## **7. Handling and storage**

Safe handling.....	Avoid contact with skin and eyes. Avoid inhalation of dust and aerosols. Provide appropriate exhaust ventilation.
Safe storage / product incompatibilities.....	Store in cool place. Avoid light. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Specific end uses .....	Only for in vitro use in research and analysis laboratories.

## **8. Exposure controls/personal protection**

Control parameters .....	Occupational exposure limit values: not determined.
Exposure controls.....	Handle according to instructions, good laboratory practices and normal hygiene standards (washing hands after manipulation).
Personal protective equipment.....	Wear protective clothing, gloves and goggles.

## **9. Physical and chemical properties**

Appearance.....	light green powder, colorless liquid when resuspended in FS solvent
Odor.....	No data available
Odor Threshold.....	No data available
pH.....	No data available
Melting point / freezing point.....	No data available
Flash point.....	No data available
Evaporation rate.....	No data available
Flammability (solid; gas).....	Not concerned
Upper / lower flammability of explosive limits .....	Not concerned
Vapor pressure.....	14.6 hPa at 25°C
Vapor density .....	Not concerned
Relative density.....	1.898 g/cm <sup>3</sup> at 25°C
Solubility.....	Not concerned
Partition coefficient: n-octanol/water.....	Not concerned
Auto-ignition temperature.....	Not concerned
Decomposition temperature.....	No data available
Viscosity.....	No data available
Explosive properties.....	Not concerned
Oxidizing properties.....	No data available
Other information.....	Bulk density 1.300 kg/m <sup>3</sup>

## **10. Stability and reactivity**

Reactivity .....	No data available
Chemical stability .....	Keep away from light and high temperatures > 30°C
Possibility of hazardous reactions .....	No data available
Conditions to avoid .....	Hygroscopic, Keep away from light and high temperatures > 30°C
Incompatible materials .....	Oxidizing agents
Hazardous decomposition products .....	No data available

## **11. Toxicological information**

Acute toxicity .....	LD50 oral – mouse 1.520 mg/kg LD50 Intraperitoneal – mouse 245 mg/kg LD50 Intravenous – mouse 51 mg/kg
Skin corrosion / irritation .....	No data available
Serious eye damage / irritation .....	No data available
Respiratory or skin sensitization .....	No data available
Germ cell mutagenicity .....	No data available
Carcinogenicity.....	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC
Reproductive toxicity.....	No data available
Specific target organ toxicity - single exposure.....	No data available
Specific target organ toxicity - repeated exposure .....	No data available
Aspiration hazard .....	No data available

**12. Ecological information**

Toxicity .....	No data available
Persistence and degradability .....	No data available
Bioaccumulative potential .....	No data available
Mobility in soil .....	No data available
Results of PBT and vPvB assessment .....	No data available
Other adverse effects .....	No data available

**13. Disposal considerations**

Product.....	Dispose of according to official regulation; contact a specialist in waste disposal services.
Contaminated packaging.....	Dispose of as unused product.

**14. Transport information**

Information	ADR/RID	IMDG	IATA
UN number	None	None	None
UN proper shipping name	Not dangerous goods	Not dangerous goods	Not dangerous goods
Transport hazard classes	None	None	None
Packing group	None	None	None
Environmental hazards	None	None	None
Special precautions for user	No data available	No data available	No data available
Transport in bulk	Not concerned	Not concerned	Not concerned

HS code : 38 22 00 + country-specific extension

**15. Regulatory information**

Safety, health and environmental regulations.....	This datasheet complies with the Regulation EC 1907/2006.
Product specific legislation.....	No data available
Chemical safety assessment .....	No data available

**16. Other information**

This product must be used according to the corresponding instructions.

This product is for in vitro use only.

This data sheet completes the instructions for use but does not replace it. The information is based on our present knowledge relative to the product at the date it was issued. This safety information in no way dispenses users from thoroughly knowing and applying all regulatory texts relating to their activity. The user's attention is drawn to possible risks taken when manipulating the product for any purposes or in any way not allowed in this document. ApoH-technologies shall not be held liable for any damage resulting from handling or from contact with the above product.

Datasheet version	Modification
06/2013	Creation
12/2014	Out-line change, update of HS code