MATERIAL SAFETY DATA SHEET

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1. Product and Company Information

Product name: Scopoletin
Product Number: RS-043

Company: SensaPharm Ltd
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Business & Innovation Centre
Wearfield
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United Kingdom

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2. Hazards Identification

Irritating to eyes, respiratory system and skin.

3. Composition/Information on Ingredients

CAS #	EC-No.	Index-No.	Classification	Concentration
Scopoletin				
92-61-5	202-171-9	N/A	Xi, R36/37/38	100%
Synonyms: 7-Hydroxy-6-methoxycoumarin; 7-Hydroxy-6-methoxy-2H-1-benzopyran-2-one; 6-Methoxyumbelliferone; Esculetin-6-methyl ether; Chrysatropic acid; Gelseminic acid; 7-Hydroxy-5-methoxycoumarin;				

4. First Aid Measures

Inhalation
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Skin Contact
Wash off with soap and plenty of water. Remove contaminated clothing and shoes. Get medical aid if irritation develops and persists. Wash clothing before reuse.

Eye Contact
Flush eyes with water as a precaution. Consult a physician.
Ingestion
Do not induce vomiting. Rinse mouth with water. Never give anything to an unconscious person by mouth. Consult a physician.

5. Fire Fighting Measures

Extinguishing Media
Use water spray, dry chemical, carbon dioxide, or appropriate foam.
Special protective equipment for emergency personnel
Wear self contained breathing apparatus and protective clothing to prevent contact with eyes and skin.
Further information
Use water spray to cool unopened containers.

6. Accidental Release Measures

Personal Precautions
Avoid dust formation. Evacuate area. Wear appropriate protective clothing to minimize contact with skin. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition.
Methods for cleaning up
Sweep up and shovel, then place in suitable container for appropriate disposal.

7. Handling and Storage

Handling
Provide appropriate exhaust ventilation at places where dust is formed. Avoid contact with eyes, skin or clothing. Avoid prolonged or repeated exposure.
Storage
Store in a cool, dry place. Store in a tightly closed container.
Recommended storage temperature: -20°C

8. Exposure Controls/Personal Protection

General Hygiene Measures
Wash contaminated clothing before reuse. Discard contaminated shoes. Wash thoroughly after handling.

Personal Protective Equipment
Respiratory protection
Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Hand protection
Compatible chemical-resistant gloves.
Eye protection
Chemical safety goggles.
Skin and body protection
Wear appropriate protective gloves to prevent skin exposure.

9. Physical and Chemical Properties

Physical State	Crystalline
Colour	White
Molecular Formula	$C_{10}H_8O_4$
Molecular Weight	192.17
pH	n/a
BP	n/a
MP	n/a
Flash Point	n/a
Flammability	n/a
Autoignition Temperature	n/a
Oxidising Properties	n/a
Explosive Properties	n/a
Explosion Limits	n/a
Vapour Pressure	n/a
Density	n/a
Partition Coefficient	n/a
Viscosity	n/a
Vapour Density	n/a
Saturated Vapour Concentration	n/a
Evaporation Rate	n/a
Bulk Density	n/a
Decomposition Temperature	n/a
Solvent Content	n/a
Water Content	n/a
Surface Tension	n/a
Conductivity	n/a
Miscellaneous Data	n/a
Solubility	n/a

10. Stability and Reactivity

Storage stability

Stable under recommended storage conditions.

Conditions to avoid

Incompatible materials.

Materials to avoid

Strong oxidizing agents, acids, acetic anhydride, acid chlorides, carbon dioxide.

Hazardous decomposition products

Carbon monoxide, Carbon dioxide

11. Toxicological Information

Acute toxicity

No data available

Irritation and corrosion

no data available

Sensitisation

no data available

Chronic exposure

no data available

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Potential Health Effects

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.

Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes May cause eye irritation.

Ingestion May be harmful if swallowed.

12. Ecological Information

No data available

13. Disposal Considerations

Contact a licensed professional waste disposal service to dispose of this material Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state and local environmental regulations.

14. Transport Information

Not dangerous goods. Not hazardous for road, sea or air transport.

15. Regulatory Information

Labelling according to EC Directives

Hazard symbols:	Xi Irritant.
R-phrase(s):	R36/37/38 Irritating to eyes, respiratory system and skin.
S-phrase(s):	S26 36 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

16. Other Information

Warranty

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. SensaPharm Ltd., shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sensapharm.eu for additional terms and conditions of sale. Copyright 2009 SensaPharm Ltd. License granted to make unlimited paper copies for internal use only.

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