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### MATERIAL SAFETY DATA SHEET (MSDS)

## SELIWANOFF'S REAGENT (FOR DETECTION OF FRUCTOSE)

#### 1. Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

Trade name : SELIWANOFF'S REAGENT (FOR DETECTION OF FRUCTOSE)

Product code : SI0310500250  
CAS No: N/A

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

Use : Industrial. For professional use only.

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

Company identification : SUVCHEM  
Chaitanya Tower, 2nd Floor, Office # 206,  
Siddharth Nagar, S.V. Road,  
Goregaon (West), Mumbai - 400062,  
Maharashtra, India.  
Contact: +91 22 28725393 / 94 / 95  
Email ID: info@suvchem.com/care@suvchem.com

##### 1.4. Emergency telephone number

Phone no. : + 91 22 28725393 / 94 / 95 (9:00am - 6:00 pm) [ Office hours ]

#### 2. Hazards identification -DSD

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

##### Classification EC 67/548 or EC 1999/45

Classification : Xi; R36/37/38

##### Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards : Skin corrosion - Category 1B - Danger (CLP : Skin Corr. 1B) H314

##### 2.2. Label elements

##### Labelling EC 67/548 or EC 1999/45

Symbol(s)



Symbol(s) : Xi : Irritant

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## SELIWANOFF'S REAGENT (FOR DETECTION OF FRUCTOSE)

#### 2. Hazards identification -DSD (continued)

<b>R Phrase(s)</b>	: R36/37/38 : Irritating to eyes, respiratory system and skin.
<b>S Phrase(s)</b>	: S24 : Avoid contact with skin. S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S35 : This material and its container must be disposed of in a safe way. S36/37 : Wear suitable protective clothing and gloves. S51 : Use only in well-ventilated areas. S59 : Refer to manufacturer/supplier for information on recovery/recycling.
<b>Contains</b>	: Water - Hydrochloric acid - Resorcinol

#### Labelling Regulation EC 1272/2008 (CLP)

##### Hazard pictograms



<b>Signal words</b>	: Danger
<b>Hazard statements</b>	: H314 : Causes severe skin burns and eye damage.
<b>Precautionary statements</b>	
• <b>Prevention</b>	: P280: Wear protective gloves, protective clothing, eye protection, face protection. P260: Do not breathe dust, fume, gas, mist, vapours, spray. P264: Wash thoroughly after handling.
• <b>Response</b>	: P301+P330+P331: IF SWALLOWED : Rinse mouth. Do NOT induce vomiting. P305+P351+P338: IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing. P303+P361+P353: IF ON SKIN (or hair) : Remove immediately all contaminated clothing. Rinse skin with water/shower. P363: Wash contaminated clothing before reuse.
• <b>Storage</b>	: P405: Store locked up.
• <b>Disposal considerations</b>	: P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
<b>Contains</b>	: Water - Hydrochloric acid - Resorcinol

#### 2.3. Other hazards

<b>Other hazards</b>	: The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.
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#### 3. Composition/information on ingredients

<b>Substance / Preparation</b>	: Preparation.
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#### 3. Composition/information on ingredients (continued)

Hazardous component(s)		: This product is hazardous.					Classification
Substance name	Contents	CAS No	EC No	Annex No	REACH Ref.		
Resorcinol	> 0.01 < 1 %	108-46-3	203-585-2	604-010-00-1	----	Xn; R22 Xi; R36/38 N; R50 ----- Acute Tox. 4 (oral) _ H302 Eye irrit 2 _ H319 Skin Irrit. 2 _ H315 Aquatic Acute 1 _ H400	
Hydrochloric acid	> 10 < 15 %	7647-01-0	231-595-7	017-002-01-X	----	C; R34 Xi; R37 ----- Skin Corr. 1B _ H314 STOT SE 3 _ H335	
Water	> 75 < 99 %	7732-18-5	231-791-2	----	----	Not classified (DSD/DPD) Not classified (GHS)	

#### 4. First aid measures

##### 4.1. Description of first aid measures

<b>Inhalation</b>	: Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor.
<b>Skin contact</b>	: Immediately call a POISON CENTER or doctor. Wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing.
<b>Eye contact</b>	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
<b>Ingestion</b>	: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor.

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

**Symptoms relating to use** : Causes severe skin burns and eye damage.

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

**General information** : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

#### 5. Fire-fighting measures

##### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
<b>Unsuitable extinguishing media</b>	: Do not use a heavy water stream.
<b>Surrounding fires</b>	: Use water spray or fog for cooling exposed containers.

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

**MATERIAL SAFETY DATA SHEET (MSDS)**
**SELIWANOFF'S REAGENT (FOR DETECTION OF FRUCTOSE)**
**5. Fire-fighting measures (continued)**

**Hazardous combustion products** : Under fire conditions, hazardous fumes will be present.  
Thermal decomposition generates : Corrosive vapours.

**5.3. Advice for fire-fighters**

**Protection against fire** : Do not enter fire area without proper protective equipment, including respiratory protection.

**Special procedures** : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

**6. Accidental release measures**
**6.1. Personal precautions, protective equipment and emergency procedures**

**For emergency responders** : Equip cleanup crew with proper protection.  
Ventilate area.

**For non-emergency personnel** : Evacuate unnecessary personnel.

**6.2. Environmental precautions**

**Environmental precautions** : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

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

**Clean up methods** : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

**6.4. Reference to other sections**

See section 8. Exposure controls/personal protection

**7. Handling and storage**
**7.1. Precautions for safe handling**

**Handling** : Wash thoroughly after handling. Wash contaminated clothing before reuse. Do not breathe dust, fume, gas, mist, vapours, spray.

**Technical protective measures** : Provide good ventilation in process area to prevent formation of vapour.

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

**Storage** : Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.

### MATERIAL SAFETY DATA SHEET (MSDS)

## SELIWANOFF'S REAGENT (FOR DETECTION OF FRUCTOSE)

#### 7. Handling and storage (continued)

Storage regulation : Comply with applicable regulations.  
Storage - away from : Strong bases. Strong acids. Sources of ignition. Direct sunlight.

#### 7.3. Specific end use(s)

Specific end use(s) : None.

#### 8. Exposure controls/personal protection

##### 8.1. Exposure controls

Personal protection



Personal protection : Avoid all unnecessary exposure.  
 • Respiratory protection : Wear approved mask.  
 • Hand protection : Wear protective gloves.  
 • Skin protection : Wear suitable protective clothing.  
 • Eye protection : Chemical goggles or face shield.  
 • Others : When using, do not eat, drink or smoke.

##### 8.2. Control parameters

Occupational Exposure Limits : No data available.

#### 9. Physical and chemical properties

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

Physical state at 20 °C : Liquid.  
 Colour : Colorless  
 Odour : Characteristic.  
 Odour threshold : No data available.  
 pH value : No data available.  
 Melting point [°C] : No data available.  
 Decomposition point [°C] : N/A  
 Critical temperature [°C] : No data available.  
 Auto-ignition temperature [°C] : No data available.  
 Flammability (solid, gas) : N/A

**MATERIAL SAFETY DATA SHEET (MSDS)**  
**SELIWANOFF'S REAGENT (FOR DETECTION OF FRUCTOSE)**
**9. Physical and chemical properties (continued)**

Flash point [°C]	: No data available.
Boiling point [°C]	: N/A
Initial boiling point [°C]	: No data available.
Final boiling point [°C]	: No data available.
Evaporation rate	: N/A
Vapour pressure [20°C]	: No data available.
Vapour pressure mm/Hg	: N/A
Vapour density	: 1,268
Density [g/cm <sup>3</sup> ]	: N/A
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: Soluble in water
Solubility in water	: No data available.
Log Pow octanol / water at 20°C	: No data available.
Solubility	: N/A
Viscosity at 40°C [mm <sup>2</sup> /s]	: No data available.

**9.2. Other information**

Explosive properties	: N/A
Explosion limits - upper [%]	: No data available.
Explosion limits - lower [%]	: No data available.
Oxidising properties	: No data available.

**10. Stability and reactivity**
**10.1. Reactivity**

Reactivity	: Not established.
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**10.2. Chemical stability**

Chemical stability	: Stable under recommended storage conditions.
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**10.3. Possibility of hazardous reactions**

Hazardous reactions	: Not established.
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**10.4. Conditions to avoid**

Conditions to avoid	: Direct sunlight. Extremely high or low temperatures.
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## MATERIAL SAFETY DATA SHEET (MSDS)

### SELIWANOFF'S REAGENT (FOR DETECTION OF FRUCTOSE)

#### 10. Stability and reactivity (continued)

##### 10.5. Incompatible materials

**Materials to avoid** : Strong acids. Strong bases.

##### 10.6. Hazardous decomposition products

**Hazardous decomposition products** : Fumes. Carbon monoxide. Carbon dioxide.  
 Thermal decomposition generates : Corrosive vapours.

#### 11. Toxicological information

##### 11.1. Information on toxicological effects

**Toxicity information** : The product has been not fully tested. The calculated risk has been done under the requirements of the EU regulations.

##### **Acute toxicity**

- **Inhalation** : Based on available data, the classification criteria are not met.
- **Dermal** : Based on available data, the classification criteria are not met.
- **Ingestion** : Based on available data, the classification criteria are not met.

**Corrosion** : Causes severe skin burns and eye damage.

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

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

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

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

**Toxic for reproduction** : Based on available data, the classification criteria are not met.

**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.

#### 12. Ecological information

##### 12.1. Toxicity.

**Toxicity information** : The product has been not fully tested. The calculated risk has been done under the requirements of the EU regulations.

##### 12.2. Persistence - degradability

**Persistence - degradability** : Biodegradable.

##### 12.3. Bioaccumulative potential

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**12. Ecological information (continued)**

Bioaccumulative potential : Not established.

**12.4. Mobility in soil**

Mobility in soil : Not established.

**12.5. Results of PBT and vPvB assessment**

**Results of PBT and vPvB assessment :** The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

**12.6. Other adverse effects**

Environmental precautions : Avoid release to the environment.

**13. Disposal considerations**
**13.1. Waste treatment methods**

**General :** Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.  
 Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

**14. Transport information**
**14.1. Land transport (ADR-RID)**

Proper shipping name : HYDROCHLORIC ACID  
 UN N° : 1789  
 H.I. nr : 80  
 ADR - Class : 8  
 Labelling - Transport : 8 : Corrosive substance.



ADR - Classification code : C1  
 ADR - Group : II  
 ADR - Packing instructions : P001  
 ADR - Limited Quantity : 1 L

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### SELIWANOFF'S REAGENT (FOR DETECTION OF FRUCTOSE)

#### 14. Transport information (continued)

ADR - Tunnel code



: E : Passage forbidden through tunnels of category E.

#### 14.2. Sea transport (IMDG) [English only]

Proper shipping name : HYDROCHLORIC ACID  
UN N° : 1789  
IMO-IMDG - Class or division : 8 : Corrosive substance.  
IMO-IMDG - Packing group : II  
IMO-IMDG - Packing instructions : P001  
IMO-IMDG - Limited quantities : 1 L  
IMO-IMDG - Marine pollution : No  
EMS-Nr : F-A S-B

#### 14.3. Air transport (ICAO-IATA) [English only]

Proper shipping name : HYDROCHLORIC ACID  
UN N° : 1789  
IATA - Class or division : 8 : Corrosive substance.  
IATA - Packing group : II  
IATA - Passenger and Cargo Aircraft : ALLOWED  
- Passenger and Cargo - Packing instruction : 851  
- Passenger and Cargo - Maximum Quantity/Packing : 1 L  
IATA - Cargo only : ALLOWED  
- Cargo only - Packing instruction : 855  
- Cargo only - Maximum Quantity/Packing : 30 L  
IATA - Limited Quantities : 0.5 L  
ERG-Nr : 8L

#### 15. Regulatory information

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

Safety, health and environmental regulations/legislation specific for the substance or mixture : Ensure all national/local regulations are observed.

**MATERIAL SAFETY DATA SHEET (MSDS)**

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

**DISCLAIMER:**

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

**End of document**