

## 1: Identification of substance / mixture

### 1. Product Identifier

Mixture

Product Name **SSC Buffer 20X Solution**  
Product Code S24022  
CAS Number  
Other Names  
IUPAC  
MFCN Number  
EC/EINECS  
REACH Number Index-No

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

Research and Development

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

Melford Laboratories Ltd  
Bildeston Road, Chelsworth  
Ipswich  
Suffolk  
IP77LE  
UK



Telephone: 01449 741178  
Fax: 01449 741217  
Email: support@melford.co.uk

### 4. Emergency telephone number

+44(0)1449 741178 -

## 2. Hazards Identification

### 1. Classification of the substance or mixture

Non Hazardous

### 2. Label elements

Non Hazardous

### Hazard Statements

Non Hazardous

### Precautionary Phrases

Non Hazardous

### 3. Other Hazards

Non Hazardous

## 3. Composition / Information on Ingredients

### 1. Substances

| Product Name            | Hazards | Concentration |
|-------------------------|---------|---------------|
| SSC Buffer 20X Solution |         |               |
|                         |         | <=100%        |

## 4. First Aid Measures

### 1. Description of first aid measures

*Skin Contact* Wash immediately with plenty of soap and water.  
*Eye Contact* Rinse opened eye for several minutes under running water.  
*Ingestion* Wash out mouth with water.

*Inhalation* If breathing becomes bubbly, have the casualty sit and provide oxygen if available.

## 2. Most important symptoms and effects

There may be mild irritation at the site of contact.

## 3. Indication of any immediate medical attention

No data available

## 5. Firefighting measures

### 1. Extinguishing Media

*Suitable* Water spray.  
Carbon dioxide.  
Alcohol or polymer foam.  
Dry chemical powder.

*Unsuitable* No data available

### 2. Special Hazards arising from the substance or mixture

No data available

### 3. Advice for Fire Fighters

Wear suitable protective clothing to prevent contact with skin and eyes and self-contained breathing apparatus.

## 6. Accidental Release Measures

### 1. Personal Precautions

Refer to section 8 of SDS for personal protection details.

### 2. Environmental Precautions

Do not discharge into drains or rivers.

### 3. Methods & Materials

Transfer to a closable, labelled salvage container for disposal by an appropriate method.

### 4. Preventing the occurrence of secondary hazards.

Clean up all spills immediately. Wear suitable PPE.

## 7. Handling and Storage

### 1. Personal Precautions

*Safe Handling* Ensure there is sufficient ventilation of the area.  
Avoid the formation or spread of mists in the air.  
Avoid direct contact with the substance.

*Protection against explosions and fires* No special requirements

### 2. Conditions for safe storage, including any incompatibilities

*Managing Storage Risks* Store in cool, well ventilated area.

*Storage Controls* No special requirements

*Maintaining Integrity* No special requirements

*Other advice* no further information available

### 3. Specific End Uses

The end use(s) have not been fully determined. The substance is supplied for Research and Development purposes by professionals only.

## 8. Exposure Controls/Personal Protection

### 1. Control Parameters

No Data Available

### 2. Exposure Controls

*General protective and hygiene measures*

Avoid contact with skin and eyes

*Engineering measures*

Ensure there is sufficient ventilation of the area.  
Ensure there is exhaust ventilation where dusts/mists may form.

*Eye / Face Protection*

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

*Hand protection*

Protective gloves.  
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.  
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it

*Respiratory protection*

Respiratory protection not required.

*Skin protection*

Protective clothing.  
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

*Other personal protection advice*

No data.

## 9. Physical and Chemical Properties

### 1. Physical and Chemical Properties

|  |                   |
|--|-------------------|
| Appearance                                   | Liquid            |
| Odour  | No Data Available |
| Odour threshold                              | No Data Available |
| PH   | No Data Available |
| Melting point / Freezing point               | No Data Available |
| Initial boiling point and boiling range      | No Data Available |
| Flash point                                  | No Data Available |
| Evaporation rate                             | No Data Available |
| Flammability(solid,gas)                      | No Data Available |
| Upper/lower flammability or explosive limits | No Data Available |
| Vapour pressure                              | No Data Available |
| Vapour density                               | No Data Available |
| Relative density                             | No Data Available |
| Solubility(ies):                             | No Data Available |
| Partition coefficient: n-octanol/water       | No Data Available |
| Auto-ignition temperature                    | No Data Available |
| Decomposition temperature                    | No Data Available |
| Viscosity                                    | No Data Available |
| Explosive properties                         | No Data Available |
| Oxidising properties                         | No Data Available |

### 2. Other Information

None

## 10. Stability and Reactivity

### 1. Reactivity

no unusual reactivity

## 2. Stability

Stable under normal conditions.

## 3. Possibility of Hazardous Reactions

no hazardous reactions known

## 4. Conditions to Avoid

No data available

## 5. Incompatible Materials

Strong oxidizing agents.

## 6. Hazardous Decomposition Products

No data available

## 11. Toxicology information

### 1. Information

*Acute Toxicity* Component: Sodium Chloride:  
Rat oral LD50 [mg/kg] : 3000  
Rabbit dermal LD50 [mg/kg] : 10000  
Rat inhalation LC50 [mg/kg] : 42000

*Skin corrosion/irritation* No information available

*Serious eye Damage/irritation* No information available

*Respiratory or skin sensitisation* No information available

*Germ Cell mutagenicity* No information available

*Carcinogenicity* No information available

*Reproductive toxicity* No information available

*STOT-single exposure* No information available

*STOT-repeated exposure* No information available

*Aspiration hazard* No information available

### 2. Additional

The toxicological properties have not been fully investigated

## 12. Ecological Information

### 1. Toxicity

Component: Sodium chloride  
Freshwater fish; Pimephals prome: LC50:7650 mg/L-96h  
Water Flea; EC50: 1000 mg/L/48h

Component: Sodium citrate  
Freshwater fish; Poecilia reticulata LC50 18000-32000 mg/L- 96 h  
Water Flea; EC50:5600-10000mg/l 48h (Daphnia magna)  
Freshwater Algae; EC50: 18000 - 32000 mg/L -96 h

### 2. Persistence and degradability

No information available

### 3. Bio-Accumulative Potential

No information available

#### 4. Mobility and Soil

No information available

#### 5. Results of PBT & vPvB assessment

No information available

#### 6. Other adverse effects

No information available

### 13. Disposal Considerations

#### 1. Waste Treatment Methods

*Disposal Operations* Consult state, local or national regulations for proper disposal.

*Disposal of Packaging* Disposal must be made according to official regulations.

### 14. Transport Information

#### Air (ICAO)

Not classified as hazardous for transport

#### Road (ADR)

Not classified as hazardous for transport

#### Sea (IMDG)

Not classified as hazardous for transport

### 15. Safety, health, environmental and national regulations

#### 1. Safety, health, environmental and national regulations:

product is not subject to any additional regulations or provisions

#### 2. Safety Assessment

No Chemical Safety Assessment

### 16. Other Information

#### 1. Other Information:

This safety data sheet complies to the requirements of Regulation (EC) No. 1907/2006  
ADR: Accord Europeen sur le transport des marchandises Dangereuses par Route(European Agreement concerning the International Carriage of Dangerous Goods by road)  
RID:Reglement International concernant le transport des marchandises dangereuses par chemin de fer (Regulations concerning the International transport of Dangerous Goods by Rail)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
IATA-DGR: Dangerous Goods Regulations by the International Air Transport Association  
ICAO:International Civil Aviation Organization  
ICAO-TI: Technical Instructions by the ICAO  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
CAS:Chemical Abstracts Service

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### 3. Disclaimer

The product listed is for research and development purposes only and not for human or animal use. As such, in most cases, the toxicological, ecological and physicochemical properties have not been fully determined and the product should be treated with respect and always handled under suitable conditions by appropriately qualified personnel. The responsible party shall use this datasheet only in conjunction with other sources of information gathered by them, and should make an independent judgement of suitability, to ensure proper use and protect the health and safety of employees. This information is furnished without warranty and any use of the product not in conformance with this material safety data sheet, or in combination with any other product or process, is the responsibility of the user.

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage , transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material nused in combination with any other material or in any process unless specified in the text