1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product code: R6160
Product name: Rhodamine Red™-X, succinimidyl ester

Company/Undertaking Identification

INVITROGEN CORPORATION
5791 VAN ALLEN WAY
PO BOX 6482
CARLSBAD, CA 92008
760-603-7200

INVITROGEN CORPORATION
2270 INDUSTRIAL STREET
BURLINGTON, ONT
CANADA L7P 1A1
800-263-6236

GIBCO PRODUCTS
INVITROGEN CORPORATION
3175 STALEY ROAD P.O. BOX 68
GRAND ISLAND, NY  14072
716-774-6700

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous/Non-hazardous Components
The product contains no substances which at their given concentration, are considered to be hazardous to health

3. HAZARDS IDENTIFICATION

Emergency Overview
The product contains no substances which at their given concentration, are considered to be hazardous to health

Form
Solid

Principle Routes of Exposure/
Potential Health effects

<table>
<thead>
<tr>
<th>Part of Body</th>
<th>Health Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eyes</td>
<td>No information available</td>
</tr>
<tr>
<td>Skin</td>
<td>No information available</td>
</tr>
</tbody>
</table>
3. HAZARDS IDENTIFICATION

Inhalation  No information available
Ingestion  No information available

Specific effects
Carcinogenic effects  No information available
Mutagenic effects  No information available
Reproductive toxicity  No information available
Sensitization  No information available

Target Organ Effects  No information available

HMIS

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>0</td>
</tr>
<tr>
<td>Flammability</td>
<td>0</td>
</tr>
<tr>
<td>Reactivity</td>
<td>0</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

Skin contact  Wash off immediately with plenty of water
Eye contact  Rinse thoroughly with plenty of water, also under the eyelids.
Ingestion  Never give anything by mouth to an unconscious person
Inhalation  Move to fresh air
Notes to physician  Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media  Dry chemical
Special protective equipment for firefighters  Wear self-contained breathing apparatus and protective suit for firefighters

6. ACCIDENTAL RELEASE MEASURES

Personal precautions  Use personal protective equipment
Methods for cleaning up  Soak up with inert absorbent material.

7. HANDLING AND STORAGE

Handling  No special handling advice required
Storage  Keep in properly labelled containers

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure controls

Exposure limits
Engineering measures  Ensure adequate ventilation, especially in confined areas

Personal protective equipment
Respiratory protection  In case of insufficient ventilation wear suitable respiratory equipment
Hand protection  Protective gloves
Eye protection  Safety glasses with side-shields
Skin and body protection  Lightweight protective clothing.
Hygiene measures
Handle in accordance with good industrial hygiene and safety practice
Environmental exposure controls
Prevent product from entering drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information
Form
Solid

Important Health Safety and Environmental Information
Boiling point/range °C No data available °F No data available
Melting point/range °C No data available °F No data available
Flash point °C No data available °F No data available
Autoignition temperature °C No data available °F No data available
Oxidizing properties No information available
Water solubility No data available

10. STABILITY AND REACTIVITY

Stability
Stable.
Materials to avoid No information available
Hazardous decomposition products No information available
Polymerization Hazardous polymerisation does not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Principle Routes of Exposure/
Potential Health effects
Eyes No information available
Skin No information available
Inhalation No information available
Ingestion No information available

Specific effects
Carcinogenic effects No information available
Mutagenic effects No information available
Reproductive toxicity No information available
Sensitization No information available

Target Organ Effects
No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity effects No information available.
Mobility No information available.
Biodegradation Inherently biodegradable.
Bioaccumulation Does not bioaccumulate.

13. DISPOSAL CONSIDERATIONS
13. DISPOSAL CONSIDERATIONS
Dispose of in accordance with local regulations

14. TRANSPORT INFORMATION

IATA
- Proper shipping name: Not classified as dangerous in the meaning of transport regulations
- Hazard Class: No information available
- Subsidiary Class: No information available
- Packing group: No information available
- UN-No: No information available

15. REGULATORY INFORMATION

International Inventories

U.S. Federal Regulations

SARA 313
This product is not regulated by SARA.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)
This product does not contain HAPs.

U.S. State Regulations

California Proposition 65
This product does not contain chemicals listed under Proposition 65

WHMIS hazard class:
Non-controlled

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR

16. OTHER INFORMATION

This material is sold for research and development purposes only. It is not for any human or animal therapeutic or clinical diagnostic use. It is not intended for food, drug, household, agricultural, or cosmetic use. An individual technically qualified to handle potentially hazardous chemicals must supervise the use of this material.

The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may be present unknown hazards and should be used with caution. Since Invitrogen Corporation cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS MSDS DOES NOT CONSTITUTE A WARRANTY, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.

End of Safety Data Sheet