

Create Date: 2017-03-09 00:00:00/ Revision Date: 2018-07-26 01:00:00/ Print Date: 2019-10-29

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**SECTION 1: COMPANY AND PRODUCT INFORMATION**

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**1.1 Product identifiers**

Product name : Rhodamine B Isothiocyanate  
Product code : 41840004  
CAS number : 36877-69-7  
Synonyms : RBITC

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

Identified uses : Laboratory chemicals, manufacture of substances

**1.3 Details of the supplier of the safety data sheet**

Address : Genelinx International Inc, dba bioWORLD  
4150 Tuller Rd. Suite 228  
Dublin, OH 43017

Email : tech@bio-world.com

Phone : 614-792-8680, Toll free: 1-888-bio-PLUS

Fax : 614-792-8685

**1.4 Emergency telephone number**

Emergency phone : 1-888-bio-PLUS

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**SECTION 2: HAZARDS IDENTIFICATION**

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**2.1 Classification of substance or mixture**

Acute toxicity, Oral (Category 4), H302  
Acute toxicity, Inhalation (Category 4), H332  
Acute toxicity, Dermal (Category 4), H312  
Skin irritation (Category 2), H315  
Eye irritation (Category 2A), H319  
Respiratory sensitisation (Category 1), H334  
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

**2.2 GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

Acute toxicity, Oral (Category 4), H302  
Acute toxicity, Inhalation (Category 4), H332  
Acute toxicity, Dermal (Category 4), H312  
Skin irritation (Category 2), H315  
Eye irritation (Category 2A), H319  
Respiratory sensitisation (Category 1), H334  
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

**2.3 Label elements and precautionary statements**

Pictogram : 

Signal word	: Danger
Hazard statement(s)	: H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled H315 Causes skin irritation. H319 Causes serious eye irritation. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation.
Precautionary statement(s)	: P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/ eye protection/ face protection. P285 In case of inadequate ventilation wear respiratory protection. P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P322 Specific measures. P330 Rinse mouth. P332 + P313 If skin irritation occurs: Get medical advice/ attention. P337 + P313 If eye irritation persists: Get medical advice/ attention. P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician. P362 Take off contaminated clothing and wash before reuse. P403 + P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up. P501 Dispose of contents/ container to an approved waste disposal plant.

## 2.4 Hazards not otherwise classified (HNOC) or not covered by GHS

Lachrymator.

## 2.5 NFPA Rating

Health hazard	: 2
Fire hazard	: 0
Reactivity hazard	: 0

## 2.6 HMIS Rating

Health hazard	: 2
Chronic health hazard	: 0
Reactivity hazard	: 0
Flammability	: 0
Physical hazard	: 0

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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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### 3.1 Substances

Substance	CAS#	EC#	Concentration
Rhodamine B isothiocyanate M.F: C <sub>29</sub> H <sub>30</sub> ClN <sub>3</sub> O <sub>3</sub> S M.W: 536.08 g/mol	36877-69-7	253-248-9	Not available

### 3.2 Hazardous components & classification

Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2A; Resp. Sens. 1; STOT SE 3; H302 + H312 + H332, H315, H319, H334, H335

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### In case of inhalation

If inhaled, move person to fresh air and monitor breathing. If not breathing, give artificial ventilation. Consult a physician if symptoms are severe or persistent.

#### In case of skin contact

Immediately wash with excess soap and water. If spilled on clothing, remove all affected clothing. Consult a physician if symptoms are severe or persistent.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### In case of ingestion

Only induce vomiting if recommended by medical personnel. If subject is unconscious, do not give anything by mouth. If conscious, rinse mouth with water. Consult a physician if symptoms are severe or persistent.

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

All known important symptoms are described in Section 2 and/or Section 11. No other important symptoms to report.

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

No special treatment indicated. Provide treatment in accordance with exhibited systems.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Suitable extinguishing media

Water spray, alcohol-resistant foam, dry chemical, and carbon dioxide are suitable

### 5.2 Unsuitable extinguishing media

Not available

### 5.3 Special hazards arising from the substance

Carbon oxides, nitrogen oxides (NO<sub>x</sub>), Sulphur oxides, Hydrogen chloride gas

### 5.4 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

**For personal protection see section 8**

## 6.2 Environmental precautions

Prevent product from entering public sewers and waterways.

## 6.3 Methods and material for containment and cleaning up

Use inert absorbent material to absorb any spilled or leaked product. Keep in suitable, closed containers for disposal.

**For proper disposal see section 13**

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## SECTION 7: HANDLING AND STORAGE

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### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

**For precautions see section 2**

### 7.2 Conditions for safe storage, including any incompatibilities

Storage conditions : Store in cool, well ventilated area. Keep container tightly closed. Light Sensitive. Product is hygroscopic. Take precautions to avoid contact with atmospheric moisture. Store under Argon. Store at -20 °C

Incompatible materials : Not available

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

### 8.2 Engineering controls

Not available

### 8.3 Personal protective equipment

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).

Skin protection : Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Body protection : Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection : For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure : Do not let product enter drains.

General hygiene considerations : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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### 9.1 Information on basic physical and chemical properties

- a) Appearance : Not available
- b) Physical states : Solid
- c) Odor : Not available
- d) Odor threshold : Not available
- e) Melting point : Not available
- f) Boiling point range : Not available
- g) pH : Not available
- h) Density : Not available
- i) Flash point : Not available
- j) Evaporation rate : Not available
- k) Flammability : Not available
- l) Upper/lower flammability or explosive limits: : Not available
- m) Vapor pressure : Not available
- n) Vapor density : Not available
- o) Relative density : Not available
- p) Water solubility : Not available
- q) Partition coefficient:n-octanol/water : Not available
- r) Autoignition temperature : Not available
- s) Decomposition temperature : Not available
- t) Kinematic viscosity : Not available
- u) Explosive properties : Not available
- v) Oxidizing properties : Not available
- w) Solubility in other solvents : Not available
- x) Surface tension : Not available

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## SECTION 10: STABILITY AND REACTIVITY

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### 10.1 Reactivity

No special reactivity is known. Non-reactive under normal use.

### 10.2 Chemical stability

Product is stable when stored as recommended.

### 10.3 Stability note(s)

No special or unusual instability known.

#### 10.4 Polymerization

No known polymerization possible.

#### 10.5 Possibility of hazardous reactions

No known hazardous reactions are possible.

#### 10.6 Incompatible materials

Strong oxidizing agents

#### 10.7 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions - Carbon oxides, nitrogen oxides (NO<sub>x</sub>), Sulphur oxides, Hydrogen chloride gas

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### SECTION 11: TOXICOLOGICAL INFORMATION

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#### 11.1 Acute toxicity

LD50 Oral : No toxicity data available.

LD50 Dermal : No toxicity data available.

LC50 Inhalation : No toxicity data available.

#### 11.2 Skin corrosion/irritation

No skin/corrosion irritation data available.

#### 11.3 Serious eye damage/eye irritation

No eye damage/irritation data available.

#### 11.4 Respiratory or skin sensitization

May cause allergic respiratory reaction.

#### 11.5 Germ cell mutagenicity

No mutagenicity data available.

#### 11.6 Carcinogenicity

IARC : 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.

ACGIH : No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP : No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA : No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

#### 11.7 Reproductive toxicity

No reproductive toxicity data available.

#### 11.8 Specific target organ toxicity – single exposure

Inhalation - May cause respiratory irritation.

#### 11.9 Specific target organ toxicity – repeated exposure

No specific organ toxicity data available.

#### **11.10 Aspiration hazard**

No aspiration hazard data available.

#### **11.11 Additional Information**

RTECS: Not available

Cough, Shortness of breath, Headache, Nausea, Vomiting

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### **SECTION 12: ECOLOGICAL INFORMATION**

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#### **12.1 Toxicity**

No ecological toxicity data available.

#### **12.2 Aquatic toxicity**

No aquatic toxicity data available.

#### **12.3 Persistence and degradability**

No persistence/degradability data available.

#### **12.4 Bioaccumulative potential**

No bioaccumulation data available.

#### **12.5 Mobility in soil**

No soil mobility data available.

#### **12.6 Results of PBT and vPvB assessment**

PBT/vPvB assessment Not available as chemical safety assessment not required/not conducted.

#### **12.7 Other adverse effect**

No other adverse effect data available.

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### **SECTION 13: DISPOSAL CONSIDERATIONS**

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#### **13.1 Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. 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.

#### **13.2 Packaging**

Dispose of as unused product.

#### **13.3 Recommendation**

Disposal must be made according to official regulations.

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### **SECTION 14: TRANSPORTATION INFORMATION**

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#### **14.1 DOT (US)**

UN number: 3335

Class: 9

Proper shipping name: Aviation regulated solid, n.o.s. (9-[2-carboxy-5(or 6)-isothiocyanatophenyl]-3,6- bis(diethylamino)xanthylium chloride)

Reportable Quantity (RQ):

Marine pollutant: No

Poison Inhalation Hazard: No

#### **14.2 IMDG**

Not dangerous goods

### 14.3 IATA

UN number: 3335

Class: 9

Packing group: III

Proper shipping name: Aviation regulated solid, n.o.s. (9-[2-carboxy-5(or 6)-isothiocyanatophenyl]-3,6- bis(diethylamino)xanthylium chloride)

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## SECTION 15: REGULATORY INFORMATION

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### 15.1 SARA

SARA 302 Components

SARA 302: This product and components are not subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Acute Health Hazard

### 15.2 Clean water act (CWA)

No chemicals are present in this product that are subject to regulation under the Clean Water Act.

### 15.3 Right to know components

Massachusetts : No chemicals are present which require disclosure under the Massachusetts Right to Know Act.

Pennsylvania : 9-[2-carboxy-5(or 6)-isothiocyanatophenyl]-3,6-bis(diethylamino)xanthylium chloride  
CAS-No.36877-69-7

New Jersey : 9-[2-carboxy-5(or 6)-isothiocyanatophenyl]-3,6-bis(diethylamino)xanthylium chloride  
CAS-No.36877-69-7

California proposition 65 components : This product contains no chemicals which are known to the State of California to cause cancer, or birth defects or other reproductive harm.

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## SECTION 16: OTHER INFORMATION

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### 16.1 Disclaimer



This product is offered by bioWORLD for research, laboratory or further manufacturing use. Not for human use or consumption. The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchant-ability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall bio-WORLD.com be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if bio-WORLD.com has been advised of the possibility of such damages.

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## **16.2 Preparation Information**

Create Date: 2017-03-09 00:00:00/ Revision Date: 2018-07-26 01:00:00/ Print Date: 2019-10-29