

7445 Chavenelle Road Dubuque, IA 52002

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

Product Name: IPTG / X-Gal Ready-to-use Spray Solution

Product Code: IB02150

Recommend Use: For further manufacturing use only

Not for human or animal drug use

Company: IBI SCIENTIFIC

> 7445 Chavenelle Road Dubuque, IA 52002

Emergency Tele. Number: 3E Company (Acct# 9027) 1-800-451-8346 / (001) 760-602-8703

1-800-253-4942 / (001) 563-690-0484 **Company Tele. Number:**

E-Mail Address: info@ibisci.com

HAZARDOUS IDENTIFICATION

GHS – Classification

Classification: Toxic to Reproduction 1B Flammable Liquid 4 Skin Irritant 2 Eye Irritant 2

Signal Word: Danger





Hazard Statements: H227-Combustible liquid * H360-May damage fertility of the unborn child * H315-

Causes skin irritation * H319-Causes serious eye irritation * H335-May cause respiratory

irritation

P210-Keep away from heat/sparks/open flames/hot surfaces – No smoking * P261-Avoid **Precautionary Statements:**

> breathing dust/fume/gas/mist/vapors/spray * P280-Wear protective gloves/protective clothing/eye protection/face protection * 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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

 Chemical Name:
 beta-D-Galactopyranoside, 1-methyl 1-thio 1-Methyl-2-pyrrolidone

 EC No.:
 EEC No. 206-703-0
 EEC No. 212-828-1

 REACH Reg. No.:
 Not Available
 Not Available

 CAS No.:
 367-93-1
 872-50-4

 Weight %:
 1 - 5
 75 - 85

Classification: - Xi; R36/37/38; Repr. Cat.2; R61

4. FIRST AID MEASURES

Eye Contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. **Skin Contact:** Wash off immediately with soap and plenty of water, removing all contaminated clothes

and shoes.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen.

Ingestion: Clean mouth with water and afterwards drink plenty of water. Never give anything by

mouth to an unconscious person.

Notes to Physician: Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flammable Properties: Combustible liquid
Flash Point: Not determined

Suitable Extinguishing Media: Dry chemical, CO₂, water spray, regular foam

Hazardous Combustion Products: Carbon oxides

Explosion Data

Sensitivity to Mechanical Impact:
Sensitivity to Static Discharge:

Not sensitive
Not sensitive

Protective Equip. & Precautions for Firefighters: As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equiv.) and

full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with skin and eyes. Use personal protective equipment. Ensure adequate

ventilation.

Methods for Containment: Prevent further leakage or spillage, if safe to do so.

Methods for Cleaning Up: Absorb with sand or vermiculite. Pick up and transfer to properly labeled containers.

Ventilate area and wash spill site after material pickup is complete.

7. HANDLING AND STORAGE

Handling: Handle in accordance with good industrial hygiene and safety practice. Heat sensitive.

Light sensitive. Hygroscopic.

Storage: Keep container tightly closed in a dry, cool, and well-ventilated place. Protect from light.

Keep away from heat. Hygroscopic.

Incompatible Products: Strong oxidizing agents. Strong acids.

8. Exposure Controls / Personal Protection

Engineering Measures: Showers, Eyewash Stations, Ventilation Systems

Personal Protective Equipment

Eye/Face Protection: Safety glasses with side shields. Skin & Body Protection: Wear protective gloves/clothing.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Odor:

Odor:

No information available

Odor Threshold:

No information available

No information available

No information available

No information available

Initial Boiling Point:

No information available

No information available

Physical State: Liquid

pH: No data available

Flash Point (mixture): 76°C Flash Point (1-Methyl-2-pyrrolidone): 91°C

Flammable Properties: Combustible liquid Autoignition Temp. °C: No data available

Boiling Point/Range: 191.7°C

Melting Point/Range: May start to solidify at 0°C

Flammability Limits (Air): <u>Upper-No data available * Lower-No data available</u>

Explosion LimitsNo information availableExplosive Properties:No information availableOxidizing Properties:No information availableEvaporation Rate:No information available

MMHG @ 37.8°C: No data available

Vapor Density: 3.4

Specific Gravity:

Solubility:

No data available
Slightly soluble in water
No data available
No data available

Viscosity: No information available

10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions

Incompatible Products: Strong oxidizing agents. Strong acids.

Conditions to Avoid: Protect from heat. Protect from light. Hygroscopic.

Hazardous Decomposition Products: Carbon oxides,

Hazardous Polymerization: Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information: Irritating to eye, skin, and respiratory system.

 Chemical Name:
 1-Methyl-2-pyrrolidone

 LD50 Oral:
 3598mg/kg (Rat)

 LD50 Dermal:
 2500mg/kg (Rat)

 2000mg/kg (Rabbit)

LC50 Inhalation: 3.1mg/L (Rat) 4hr

Chronic Toxicity

Chronic Toxicity: Suspected teratogen **Target Organ Effects:** Spleen, Bone marrow.

12. ECOLOGICAL INFORMATION

Ecotoxicity: The environmental impact of this product has not been fully investigated.

Chemical Name:1-Methyl-2-pyrrolidoneToxicity to Algae:EC50 > 500mg/L (72hr)-

Toxicity to Fish: LC50 = 1072mg/L Pimephales promelas (96h)

LC50 = 4000mg/L Leuciscus idus (96hr) LC50 = 832mg/L Lepomis macrochirus (96hr) LC50 = 1400mg/L Poecillia reticulate (96hr)

Microtox -

Daphnia Magna (Water Flea): EC50 = 3135 mg/L (96h)

EC50 = 4897 mg/L (48 h)

Log Pow -0.46

13. DISPOSAL CONSIDERATIONS

Water Disposal Method: Dispose of material in accordance with all federal, state, and local regulations.

Contaminated Packaging: Dispose of in accordance with all federal, state, and local regulations.

14. Transport Information

IATA

Not regulated

US DOT

Not regulated

15. Toxicological Information

R	EACH Title VII Restrictions	No information available	
	Chemical Name:	beta-D-Galactopyranoside,1-methyl 1-thio-	1-Methyl-2-pyrrolidone
	Dangerous Substances:	Not applicable	Not applicable
	Organic Solvents:	Not applicable	Not applicable
	Harmful Substances Whose Names are to be indicated on		
	the Label:	Not applicable	Not applicable
	Pollution Release and Transfer Registry (Class II):	Not applicable	Not applicable
	Pollution Release and Transfer Registry (Class I):	Not applicable	Not applicable
	Poison and Deleterious Substances Control Law:	Not applicable	Not applicable
	ISHA – Harmful Substances Prohibited for Manufacturing,		
	Importing, Transferring, or Supplying:	Not applicable	Not applicable
	ISHA – Harmful Substances Requiring Permission:	Not applicable	Not applicable
	Toxic Chemical Classification Listing (TCCL):	Not applicable	Not applicable
	Toxic Release Inventory (TRI) – Group I:	Not applicable	Not applicable
	Toxic Release Inventory (TRI) – Group II:	Not applicable	Not applicable

International Inventories

TSCA: Complies EINECS/ELINCS: Complies

ENCS: Does not comply IECSC: Complies

KECL Does not comply PICCS Does not comply AICS Does not comply

U.S. Federal Regulations

SARA 313 Section 313 of Title III of the superfund Amendments and Reauthorization Act of 1986

(SARA). This product contains a chemical/chemicals which are subject to the reporting

requirements of the Act & Title 40 of the Code of Federal Regulations, part 372.

Chemical Name: 1-Methyl-2-pyrrolidone - #872-50-4

Weight (%): 75 - 85 SARA 313 – Threshold (%): 1.0

SARA 311/312 Hazard Categories

Acute Health Hazard Yes
Chronic Health Hazard Yes
Fire Hazard Yes
Sudden Release of Pressure Hazard No
Reactive Hazard No

Clean Water Act This product does not contain any substances regulated as pollutants pursuant to the

Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Clean Air Act This product does not contain any substances regulated as hazardous air pollutants

(HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

CERCLA

U.S. State Regulations

California Proposition 65 This product contains the following Proposition 65 chemicals.

Chemical Name: 1-Methyl-2-pyrrolidone - #872-50-4

California Prop. 65: Developmental

State

Massachusetts X
New Jersey X
Pennsylvania X
Illinois Rhode Island X

International Regulations

Mexico No information available

Canada No information available

WHMIS Hazard Class

B3 – Combustible liquid D2A – Very toxic materials D2B – Toxic materials





Chemical Name: 1-Methyl-2-pyrrolidone - #872-50-4

NPRI: X

16. OTHER INFORMATION

Issuing Date: 14-Oct-2013 **Revision Date:** 29-Jun-2018

Revision Note: Updated address and logo **Recommended Restrictions:** No information available

Disclaimer: 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 used in combination with any other material or in any process, unless specified

in the test.

End of Safety Data Sheet