

7445 Chavenelle Road ■ Dubuque, IA 52002 **Tele:** (563) 690-0484 ■ 1-800-253-4942 **E-Mail:** *info@ibisci.com* ■ **Web:** *www.ibisci.com*

Issuing Date: 14-Oct-2013

Revision Date: 29-Jun-2018

Rev. 3

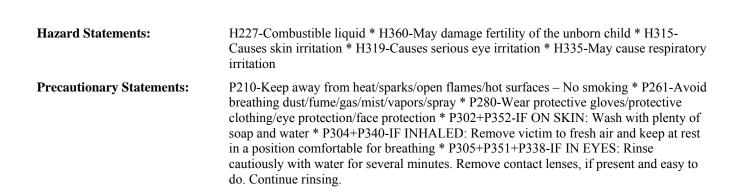
1. IDENTIFICATION OF THE SUBSTANCE/ MIXTURE AND THE COMPANY/UNDERTAKING		
Product Name:	IPTG / X-Gal Ready-to-use Spray Solution	
Product Code:	IB02150	
Recommend Use:	For further manufacturing use only Not for human or animal drug use	
Company:	IBI SCIENTIFIC 7445 Chavenelle Road Dubuque, IA 52002	
Emergency Tele. Number:	3E Company (Acct# 9027) 1-800-451-8346 / (001) 760-602-8703	
Company Tele. Number:	1-800-253-4942 / (001) 563-690-0484	
E-Mail Address:	info@ibisci.com	

 2. HAZARDOUS IDENTIFICATION

 GHS – Classification

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

 Signal Word:
 Danger



SAFETY DATA SHEET

 $IB02150-IPTG\,/\,X\text{-}GAL\,SOLUTION$

3. COMPOSITION/INFORMATION ON INGREDIENTS			
Chemical Name:	beta-D-Galactopyranoside, 1-methyl 1-thio- <u>1-Methyl-2-pyrrolidone</u>		
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 MEASUR	ES
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, CO ₂ , water spray, regular foam	
Hazardous Combustion Products:	Carbon oxides	
Explosion Data		
Sensitivity to Mechanical Impact:	Not sensitive	
Sensitivity to Static Discharge:	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.

 $IB02150-IPTG\,/\,X\text{-}GAL\;SOLUTION$

8. Exposure Controls / Personal Protection		
Engineering Measures:	Showers, Eyewash Stations, Ventilation Systems	
Personal Protective Equipme	<u>nt</u>	
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	

Hygiene Measures:

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES		
Appearance:	Clear, colorless to yellow	
Odor:	No information available	
Odor Threshold:	No information available	
Decomposition Temp. °C:	No information available	
Freezing Point:	No information available	
Initial Boiling Point:	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</u> -No data available * <u>Lower</u> -No data available	
Explosion Limits	No information available	
Explosive Properties:	No information available	
Oxidizing Properties:	No information available	
Evaporation Rate:	No information available	
MMHG @ 37.8°C:	No data available	
Vapor Density:	3.4	
Specific Gravity:	No data available	
Solubility:	Slightly soluble in water	
Partition Coefficient (n-octanol/water):	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.	

IB02150-IPTG / X-GAL SOLUTION

TT. TOXICOLOGICAL INFORMATION		
Acute Toxicity		
Product Information:	Irritating to eye, skin, and respiratory system.	
Chemical Name:	<u>1-Methyl-2-pyrrolidone</u>	
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

And the most the set Colling in section of a
duct has not been fully investigated.
elas (96h) 6hr) rus (96hr) e (96hr)

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

REACH 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
	1.0
SARA 311/312 Hazard Categor Acute Health Hazard Chronic Health Hazard Fire Hazard Sudden Release of Pressure I Reactive Hazard	Yes Yes Yes
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>U.S. State Regulations</u> California Proposition 65 Chemical Name: California Prop. 65:	This product contains the following Proposition 65 chemicals. 1-Methyl-2-pyrrolidone - #872-50-4 Developmental
State	
Massachusetts	Х
New Jersey	X
Pennsylvania	X
Illinois	- -
Dhada Jaland	- V

Х

Rhode Island

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: NPRI: 1-Methyl-2-pyrrolidone - #872-50-4 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