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# SAFETY DATA SHEET

## **SECTION 1. IDENTIFICATION**

Product identifier used on the	he label	
	Hardness Indicator Po	owder
Product Code(s)	: R-0620	
Recommended use of the cl	hemical and restrictions on use	
	: Use as directed by manufacture Recommended restrictions: No	er for purposes directly related to water testing. ne known.
Chemical family	: Mixture	
Name, address, and telep of the supplier:	ohone number	Name, address, and telephone number of the manufacturer:
Lowry & Associates, Div. Inc.	of Chem-Aquascience,	Refer to supplier
5-1151 Gorham Street Newmarket, ON, Canada L3Y 8Y1		
Supplier's Telephone #	: (905) 836-0505, Hours 09:00 to	16:30
24 Hr. Emergency Tel #	: Canutec: 613-966-6666	

## SECTION 2. HAZARDS IDENTIFICATION

#### **Classification of the chemical**

Purple crystals . Odorless.

This material is not classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

#### Label elements

Signal Word

Not required

Hazard statement(s)

Not required

Precautionary statement(s)

Not required

#### Other hazards

Other hazards which do not result in classification: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May be mildly irritating to skin, eyes and respiratory system.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Chemical name	Common name and synonyms	<u>CAS #</u>	Concentration (% by weight)
Sucrose	Sugar	57-50-1	95.0 - 99.0

The components are not hazardous or are below required disclosure limits.

## SECTION 4. FIRST-AID MEASURES



#### **Hardness Indicator Powder**

#### SDS Preparation Date (mm/dd/yyyy): 01/17/2016

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Ingestion	ç	Do NOT induce vomiting. Have victim rinse mouth with water, then give one to two glasses of water to drink. Never give anything by mouth to an unconscious person. Call a physician.
Inhalation	F	If inhaled, move to fresh air. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing has stopped, give artificial respiration. Obtain medical attention if symptoms develop and persist.
Skin contact		Wash off immediately with plenty of water. Remove and wash contaminated clothing before re-use. If irritation or symptoms develop, seek medical attention.
Eye contact		Flush eyes with water for at least 20 minutes. If irritation persists, seek prompt medical attention.
Most important symptoms	and ef	ffects, both acute and delayed
	r c t	Direct skin contact may cause slight or mild, transient irritation. Symptoms may include redness, edema, drying defatting and cracking of the skin. Direct eye contact may cause slight or mild, transient irritation. Symptoms may include stinging and tearing.Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Indication of any immedia	to modi	ical attention and anapial treatment needed

Indication of any immediate medical attention and special treatment needed

: Treat symptomatically.

#### **SECTION 5. FIRE-FIGHTING MEASURES**

#### Extinguishing media

Suitable extinguishing media

: Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.

Unsuitable extinguishing media

: Do not use a solid water stream as it may scatter and spread fire.

## Special hazards arising from the substance or mixture / Conditions of flammability

: Burning may produce irritating, toxic and obnoxious fumes.

Flammability classification (OSHA 29 CFR 1910.106)

: Not flammable.

#### Hazardous combustion products

Carbon oxides

#### Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Special fire-fighting procedures

: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

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

: Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. Wear suitable protective equipment. Refer to protective measures listed in sections 7 and 8. Restrict access to area until completion of clean-up.

**Environmental precautions** : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. **Methods and material for containment and cleaning up** 

: Ventilate area of release. Stop spill or leak at source if safely possible. Dike for water control. Use only non-sparking tools and equipment in the clean-up process. Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid creating dust.



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#### Special spill response procedures

- : Contact appropriate local and provincial environmental authorities for assistance and/or reporting requirements.
  - US CERCLA Reportable quantity (RQ): None.

## SECTION 7. HANDLING AND STORAGE

#### Precautions for safe handling

	:	Use only in well-ventilated areas. Wear protective equipment during handling. Avoid breathing dust and fume. Avoid contact with eyes, skin and clothing. Do not ingest. Keep away from extreme heat and flame. Keep away from incompatibles. Keep containers tightly closed when not in use. Wash thoroughly after handling. Avoid dust formation.
Conditions for safe storage Incompatible materials	:	Store in a cool, dry, well-ventilated area. Store away from incompatible materials. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking in the area. Oxidizing agents

## **SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Exposure Limits:					
Chemical Name	ACGI	H TLV	<u>OSHA</u>	OSHA PEL	
	TWA	<u>STEL</u>	PEL	<u>STEL</u>	
Sucrose	10 mg/m³	N/Av	15 mg/m <sup>3</sup> (total dust); 5 mg/m <sup>3</sup> (Respirable fraction)	N/Av	

### **Exposure controls**

#### Ventilation and engineering measures

	:	Use in a well-ventilated area. Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.
Respiratory protection	:	If airbourne concentrations are above the permissible exposure limit or are not known, use NIOSH-approved respirators. Advice should be sought from respiratory protection specialists. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA 294.4-02.
Skin protection	:	Gloves impervious to the material are recommended. Advice should be sought from glove suppliers.
Eye / face protection	:	Chemical goggles must be worn to prevent dusts from entering the eyes.
Other protective equipment	:	Wear sufficient clothing to prevent skin contact. Depending on conditions of use, an impervious apron should be worn. An eyewash station and safety shower should be made available in the immediate working area.
General hygiene consideration	on	S
	:	Avoid breathing dust and fume. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Do not eat, drink, smoke or use cosmetics while working with this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse. Handle in accordance with good industrial hygiene and safety practice.
<b>SECTION 9. PHYSICAL A</b>	NI	O CHEMICAL PROPERTIES



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Odour	: Odorless
Odour threshold	: N/Av
pH	: Not available.
Melting/Freezing point	: Not available.
Initial boiling point and boilir	
	: Not available.
Flash point	Not Available. Not Applicable (Does not burn)
Flashpoint (Method)	: N/Ap
Evaporation rate (BuAe = 1)	•
,	
Flammability (solid, gas) Lower flammable limit (% by	
Lower naminable limit (% by	: N/Ap
Upper flammable limit (% by	
	: N/Ap
Oxidizing properties	: Not applicable
Explosive properties	: Not applicable.
Vapour pressure	: Not available.
Vapour density	: Not available.
Relative density / Specific gr	
<i>,</i> , , , , , , , , , , , , , , , , , ,	: 1.60
Solubility in water	: Soluble
Other solubility(ies)	: Not available.
Partition coefficient: n-octan	ol/water or Coefficient of water/oil distribution
	: N/Av
Auto-ignition temperature	: Not applicable.
Decomposition temperature	: Not available.
Viscosity	: Not available.
Volatiles (% by weight)	: Not available.
Volatile organic Compounds	(VOC's)
	: N/Av
Absolute pressure of contair	ner
	: N/Ap
Flame projection length	: N/Ap
Other physical/chemical com	nments
	: None known or reported by the manufacturer.
SECTION 10 STADILITY	

# SECTION 10. STABILITY AND REACTIVITY

Reactivity	: This product is not reactive.
Chemical stability	: Material is stable under normal conditions.
Possibility of hazardous re	eactions
	No dangerous reaction known under conditions of normal use.
Conditions to avoid	: Avoid contact with incompatible materials. Do not use in areas without adequate ventilation.
Incompatible materials	: Oxidizing agents
Hazardous decompositior	) products
	: None known, refer to hazardous combustion products in Section 5.



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## SECTION 11. TOXICOLOGICAL INFORMATION

## Information on likely routes of exposure:

Routes of entry inhalation:YESRoutes of entry skin & eye:YESRoutes of entry Ingestion:YESRoutes of exposure skin absorption

## **Potential Health Effects:**

## Signs and symptoms of short-term (acute) exposure

: YES

Sign and symptoms Inhalation

	:	May cause respiratory irritation. Symptoms may include sore throat, running nose and shortness of breath.
Sign and symptoms ingestion	n	
	:	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Sign and symptoms skin	:	Direct skin contact may cause slight or mild, transient irritation.
Sign and symptoms eyes	:	Direct eye contact may cause slight or mild, transient irritation.
Potential Chronic Health Effe	ct	S
	:	Frequent or prolonged contact may dry the skin, leading to discomfort and dermatitis.
Mutagenicity	:	Not expected to be mutagenic in humans.
Carcinogenicity	:	No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.
Reproductive effects & Terat	og	enicity
	:	Not expected to cause reproductive effects.
Sensitization to material	:	Not expected to be a skin or respiratory sensitizer.
Specific target organ effects	:	This material is not classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).
Medical conditions aggravate	əd	by overexposure
	:	None known.
Synergistic materials	:	Not available.
Toxicological data	:	See below for individual ingredient acute toxicity data.

	LC50(4hr)	LD50		
Chemical name	<u>inh, rat</u>	<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>	
Sucrose	N/Av	29700 mg/kg	N/Av	

Other important toxicological hazards

: None known or reported by the manufacturer.

## SECTION 12. ECOLOGICAL INFORMATION

:

Ecotoxicity

Not classified for hazards to the environment. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.



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Ecotoxicity data:

<u>Ingredients</u>		Toxicity to Fish		
	CAS No	LC50 / 96h	NOEC / 21 day	M Factor
Sucrose	57-50-1	N/Av	N/Av	None.

Ingredients	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Sucrose	57-50-1	N/Av	N/Av	None.

Ingredients	CAS No	То		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Sucrose	57-50-1	N/Av	N/Av	None.

## Persistence and degradability

: Not available.

## **Bioaccumulation potential** : Not available.

<u>Components</u>	Partition coefficient n-octanol/water (log Kow)	Bioconcentration factor (BCF)			
Sucrose (CAS 57-50-1)	N/Av	N/Av			
Mobility in soil	: High water solubility indicates a high mobility in so	il.			
Other Adverse Environmen	ntal effects				
	: No other adverse environmental effects (e.g. ozon creation potential, endocrine disruption, global war this component.				
SECTION 13. DISPOSAL	CONSIDERATIONS				
Handling for Disposal	<ul> <li>Collect and reclaim or dispose in sealed containers at licensed waste disposal site.Dispose of contents/container in accordance with local/regional/national/international regulations.</li> </ul>				
Methods of Disposal	Dispose in accordance with all applicable federal, state, provincial and local regulations.				
RCRA	: If this product, as supplied, becomes a waste in the criteria of a hazardous waste as defined under RC responsibility of the waste generator to determine disposal method. For disposal of unused or waste federal environmental agencies.	RA, Title 40 CFR 261. It is the the proper waste identification and			

SECTION 14. TRANSPORTATION INFORMATION						
Regulatory Information UN	Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label	



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49CFR/DOT	None.	Not regulated.	not regulated	none	$\bigotimes$		
49CFR/DOT Additional information	None.						
TDG	None.	Not regulated.	Not regulated	none	$\bigotimes$		
TDG Additional information	None.						
Special precautions for user : None known or reported by the manufacturer.							

Environmental hazards : See ECOLOGICAL INFORMATION, Section 12.

## Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: This substance/mixture is not intended to be transported in bulk.

## SECTION 15 - REGULATORY INFORMATION

## US Federal Information:

Components listed below are present on the following U.S. Federal chemical lists:

	TSCA		CERCLA Reportable	SARA TITLE III: Sec. 302, Extremely	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical		
<u>Ingredients</u>	CAS #	CAS # Inventory	Quantity(RQ) (40 CFR 117.302):	Hazardous Substance, 40 CFR 355:	Toxic Chemical	de minimus Concentration	
Sucrose	57-50-1	Yes	N/Ap	N/Av	No	N/Ap	

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: None.

#### US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

Ingredients	CAS#	California	State "Right to Know" Lists						
	-	Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Sucrose	57-50-1	No	N/Ap	No	Yes	Yes	No	Yes	Yes

## **Canadian Information:**

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).



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## International Information:

Components listed below are present on the following International Inventory list:

Ingredients	CAS #	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
Sucrose	57-50-1	200-334-9	Present	Present	Not listed	KE-17258	Present	Present

## SECTION 16. OTHER INFORMATION

Legend	: ACGIH: American Conference of Governmental Industrial Hygienists CAS: Chemical Abstract Services CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980 CFR: Code of Federal Regulations
	CSA: Canadian Standards Association
	DOT: Department of Transportation
	EPA: Environmental Protection Agency
	HMIS: Hazardous Materials Identification System
	HSDB: Hazardous Substances Data Bank
	IARC: International Agency for Research on Cancer Inh: Inhalation
	LC: Lethal Concentration
	LD: Lethal Dose
	MN: Minnesota
	N/Ap: Not Applicable
	N/Av: Not Available
	NFPA: National Fire Protection Association
	NIOSH: National Institute of Occupational Safety and Health
	NJ: New Jersey
	NTP: National Toxicology Program OECD: Organisation for Economic Co-operation and Development
	OSHA: Occupational Safety and Health Administration
	PA: Pennsylvania
	PEL: Permissible exposure limit
	RCRA: Resource Conservation and Recovery Act
	RI: Rhode Island
	RTECS: Registry of Toxic Effects of Chemical Substances
	SARA: Superfund Amendments and Reauthorization Act
	STEL: Short Term Exposure Limit
	TLV: Threshold Limit Values
	TWA: Time Weighted Average WHMIS: Workplace Hazardous Materials Identification System
Deferences	
References	: Material Safety Data Sheet from manufacturer OECD- The Global Portal to Information on Chemical Substances - eChemPortal,
	Canadian Centre for Occupational Health and Safety, CCInfoWeb Databases, 2015 (Chempendium, RTECs, HSDB, INCHEM).
	European Chemicals Agency, Classification Legislation, 2015
Preparation Date (mm/dd/yyy	y)
	: 01/17/2016
Other special considerations	
	: Provide adequate information, instruction and training for operators.



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# SAFETY DATA SHEET



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