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MATERIAL SAFETY DATA SHEET — 16 Sections

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier ASR - RED INDICATOR REAGENT		[WHMIS Classification]	
Product Use Laboratory Chemicals			
Manufacturer's Name James Instruments, Inc.		Supplier's Name Fisher Scientific	
Street Address 3727 N Kedzie Ave.		Street Address One Reagent Lane	
City Chicago	State IL	City Fair Lawn	State NJ
Postal Code 60618	Emergency Telephone 800-424-9300	Postal Code 07410	Emergency Telephone (800)424-9300
Date MSDS Prepared October 12, 2017	MSDS Prepared By James Instruments, Inc.		Phone Number 1-773-463-6565

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients (<i>specific</i>)	% Wt	CAS Number	LD ₅₀ of Ingredient (<i>specify species and route</i>)	LC ₅₀ of Ingredient (<i>specify species</i>)
C.I Food Red 15 - Supersaturated Soln. (60ml)	>95	81-88-9	887 mg/kg (Mouse)Oral	Not Listed

SECTION 3 — HAZARDS IDENTIFICATION

Route of Entry	<input checked="" type="checkbox"/> Skin Contact	<input type="checkbox"/> Skin Absorption	<input checked="" type="checkbox"/> Eye Contact	<input checked="" type="checkbox"/> Inhalation	<input checked="" type="checkbox"/> Ingestion
[Emergency Overview] - DANGER. Harmful if swallowed. Causes serious eye burns and damage. Treat symptomatically.					
WHMIS Symbols]					
Potential Health Effects					
*Eyes: If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Contact Doctor.					
*Ingestion: Acute Oral Toxicity. (Category 4) If swallowed, rinse mouth immediately. Call Poison Center or doctor / physician if you feel unwell.					

SECTION 4 — FIRST AID MEASURES

Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists call a physician.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.
Inhalation	Move to fresh air. If breathing is difficult, give artificial respiration (or oxygen). Obtain medical attention if symptoms persist.
Ingestion	Rinse mouth with water immediately, and drink plenty of water afterwards. Get medical attention if symptoms persist.

SAMPLE FORMAT PROVIDED BY THE WORKERS' COMPENSATION BOARD OF BRITISH COLUMBIA

57M6 (6/99)

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SECTION 5 — FIRE FIGHTING MEASURES

Flammable <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		If yes, under which conditions? Keep product and empty container away from heat and sources of ignition.	
Means of Extinction Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.			
Flashpoint (° C) and Method No information available		Upper Flammable Limit (% by volume) No data available	Lower Flammable Limit (% by volume) No data available
Autoignition Temperature (°C) Not applicable		Explosion Data — Sensitivity to Impact No information available	Explosion Data — Sensitivity to Static Discharge No information available
Hazardous Combustion Products Hydrogen chloride gas, Nitrogen Oxides (NOx), Carbon Monoxide (CO), Carbon Dioxide (CO2)			
[NFPA] Health - 3 Flammability - 1 Instability - 0 Physical Hazards- N/A			

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures * Use personal protective equipment. * Ensure adequate ventilation. * Avoid dust formation. * Avoid release into the environment. * Do not flush into surface water or sanitary sewer system. (See Section 12 for additional ecological information.) * Collect spillage. Sweep up or vacuum spillage, and collect in suitable container for disposal. Keep in suitable, closed containers for disposal.

SECTION 7 — HANDLING AND STORAGE

Handling Procedures and Equipment * Wear personal protective equipment. * Ensure adequate ventilation. * Do not get in eyes, on skin, or on clothing. * Avoid ingestion or inhalation. * Avoid dust formation.
Storage Requirements * Keep containers tightly closed in a dry, cool, and well-ventilated place.

SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Limits <input type="checkbox"/> ACGIH TLV <input checked="" type="checkbox"/> OSHA PEL <input type="checkbox"/> Other (specify)
Specific Engineering Controls (such as ventilation, enclosed process) * Ensure adequate ventilation, especially in confined areas/ spaces. * Ensure that eyewash stations and safety showers are close to the workstation location.
Personal Protective Equipment <input checked="" type="checkbox"/> Gloves <input checked="" type="checkbox"/> Respirator <input checked="" type="checkbox"/> Eye <input type="checkbox"/> Footwear <input checked="" type="checkbox"/> Clothing <input type="checkbox"/> Other
If checked, please specify type * Eye/Face Protection: Tightly fitting safety goggles. * Skin and Body Protection: Long sleeve clothing. * Respiratory Protection: Follow the OSHA respirator regulations found in 29CRF 1910.134 or European Standard EN 149 approved respirator
If exposure limits are exceeded or if irritation or other symptoms are experienced * Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical State Solid	Odour and Appearance Strong / Dark Green	Odour Threshold (ppm) No Information Available
Specific Gravity > 1.0 (per supplier)	Vapour Density (air = 1) \\ Not Applicable	Vapour Pressure (mmHg)
Evaporation Rate Not Applicable	Boiling Point (° C) No Information Available	Freezing Point (° C) No Information Available
pH No Information Available	Coefficient of Water/Oil Distribution No data Available	[Solubility in Water] Soluble in water

SECTION 10 — STABILITY AND REACTIVITY

Chemical Stability <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If no, under which conditions? Stable under normal conditions.
Incompatibility with other Substances <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, which ones? Strong oxidizing agents, Strong reducing agents.

* Conditions to avoid: Incompatible products. Excess heat. Avoid dust formation.

* Hazardous Polymerization: Hazardous Polymerization does not occur.

Reactive, and under what conditions?

None under normal processing. None known, based on information available.

Hazardous Decomposition Products

Hydrogen chloride gas, Nitrogen Oxides (NOx), Carbon Monoxide (CO), Carbon Dioxide (CO2)

SECTION 11 — TOXICOLOGICAL INFORMATION

Effects of Acute Exposure	None Known		
Effects of chronic exposure	None Known		
Irritancy of Product	No information available		
Skin sensitization	No information available	Respiratory sensitization	No information available
Carcinogenicity-IARC	Not listed	Carcinogenicity - ACGIH	Not listed
Reproductive toxicity	No information available	Teratogenicity	No information available
Embrototoxicity	No information available	Mutagenicity	No information available
Name of synergistic products/effects	No information available		

SECTION 12 — ECOLOGICAL INFORMATION

Ecotoxicity / Aquatic Toxicity

* Do not empty into drains. Harmful to aquatic organism, may cause long-term adverse effect in the aquatic environment.

* The product contains following substance with are hazardous for the environment.

SECTION 13 — DISPOSAL CONSIDERATIONS

Waste Disposal
 * Chemical waste generators must determine whether a discarded chemicals is classified as a hazardous waste.

* Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure that a complete and accurate classification is used when disposing

SECTION 14 — TRANSPORT INFORMATION

Special Shipping Information

		PIN	
TDG	Not regulated	[DOT]	Not regulated
[IMO]	Not regulated	[IATA]	Not regulated

SECTION 15 — REGULATORY INFORMATION

[WHMIS Classification]	E - Corrosive Material	[OSHA]	Not applicable
[SERA]		[TSCA]	12(b) Not applicable

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by CPR.

SECTION 16 — OTHER INFORMATION

* The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

* Will likely to be mobile in the environment due to its water solubility.

*** Information listed is based on supplier's SDS data; updated May 23, 2017.

Disclaimer: The information provided on this Safety Data Sheet in 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 safety handling, use processing, storage, transportation, disposal and release and its not to be considered as warranty or quality specification. The information relates only to the specific material designed and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.