100, 500 ml.

777 East Park Drive Tonawanda, NY 14150-6781 MATERIAL SAFETY DATA SHEF (716) 874-6020

NFPA

HAZARD RATING

Science Kit & Boreal PO Box 5059

Boreal Laboratories Ltd.

NN 60

Laborato	San Luis Obispo, CA 93403	399 Vansickle Road St Catharines, Ontario L2S 3T4	Effective Date	July 1,	198
SECTION	I NAME	24 HOUR EI	MERGENCY AS	SISTAN	CE
Product	NESSLER'S REAGENT, SOLUT	ION	CHEMTREC		
Chemical			800-424-9300	Health	3
Synonyms	Nessler's Reagent, Solut	ion	Day 716-226-6177 Night 716-334-4222	Fire	0
Formula	KI/HgCl ₂ /NaOH	NE	DA	Reactivity	1

C.A.S. No.	None assigned	0 1	2 3 4
SECTION	III HAZARDOUS INGRED	DIENTS OF MIX	TURES
Principal Ha	zardous Component(s)	%	TLV Units
Mercu	sium Iodide CAS No. 7681-11-0 ric Chloride CAS No. 7487-94-7	3.5% 1.5%	None established 0.lmg/m ³ (Compds.)
Sodiu	n Hydroxide Cas No. 1310-73-2	12%	2mg/m ³ Ceiling
DANGE	R! 🙊 POISON 🙊 CORROSIVE-FATAL IF SWAL	LOWED-CAUSES SEVER	E BURNS TO SKIN,

EYES AND MUCOUS MEMBRANES.

SECTION III	PHYSICAL DATA				
Melting Point (°F)	FREEZING POINT UNKNOWN	Specific Gravity (H ₂ O = 1)	Approx. 1.3 at 20° C		
Boiling Point (°F)	Approx. 100° C	Percent Volable by Volume (%)	83%		
Vapor Pressure (mm Hg)	14 mm (Water)	Evaporation Rate Ether =1)	Greater than 1		
Vapor Density (Air=1)	0.7 (Water)				
Solubility in Water	Complete	10.00			
Appearance & Odor	Clear, yellow (may contain sedament) liquid; no odor.				

Appearance &	Odor	Clear, yellow	(may contain sedament)	liquid	no odor.	
SECTION	VIV	FIRE AN	ND EXPLOSION HA	ZARD	DATA	
Flash Point			Flammable Limits in Air		Lower	Upper
(Method Used)	Non-flamma	ble (NA)	% by Volume	% by Volume NA		

SPECIAL FIREFIGHTING
PROCEDURES
The state of the s

In fire conditions, wear a NIOSH-approved self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Use care not to splatter or splash.

	-
UNUSUAL FIRE AND	
EXPLOSION HAZARDS	

Unit(s) Size

Fire or excessive heat may produce hazardous and toxic decomposition products of mercury vapor, chlorine and

D.O.T.	CORROSIVE LIQUID, N. O. S.
Approved by	U.S. Department of Labor "essentially similar" to form OSHA-20

SECTION V

Threshold Limited Value, None established for this compound by (ACGIH 1983-84). TLV Computed based on data from (ACGIH 1983-84): 4.76 mg/m³ (Air).

Effects of Overexposure his material has a markedly corrosive action upon all body tissue. The symptoms of irritation from this material are frequently evident immediately. Its corrosive action on tissue causes burns and frequently deep ulceration with ultimate scarring. Causes severe burns to eyes. skin and mucous membranes. Inhalation as mist can cause damage to the upper respiratory tract and to lung tissue, depending upon the severity of the exposure. The cardinal symptoms of mercury poisoning are stomat-

itis, tremors and psychic disturbances. Usually the first complaints are of Emergency and excessive salivation and pain on chewing; in severe cases there may be ging-First Aid Procedures ivitis, with loosening of teeth and a dark line on the gum margins resembling lead line". In slow poisoning the salivation may be absent and the only complaint is dryness of the throat and mouth.

INGESTION: If swallowed, if conscious, drink large quantities of water. Follow with citrus fruit juice, if available. Call physician immediately. EYES: Flush with water for 15 minutes. Get prompt medical attention. SKIN: Remove all contaminated clothing. Flood skin with water, then wash with vinegar.

SECT	ON VI		REACTIVITY DATA				
Stability	Unstable		Conditions to Avoid				
Stability	Stable ×		Protect from light, excessive temperature and heat.				
Incompati (Materials	bility to Avoid)	: A	momonia fumes, amomonium and amine type compounds.				
Hazardou Decompo	s sition Proc	lucts	When heated, emits toxic and corrosive fumes of mercury, iodine and chlorine.				
Hazardous	Polymeriza	tion	Conditions to Avoid				
May Occur	Will No	ot Occur					
-	x		Not applicable.				

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled

Wearing suitable protective clothing, absorb in vermiculite, sand, earth, paper. Scoop up and place in a suitable container for disposal in an approved chemical landfill.

Waste Disposal Method

Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal disclaims all illemoed of the disposal of catalog-size quantities only increased waste disposal service.

SECTION	I VIII	S	PECIAL PE	101	ECTIO	AI NC	NFORMATION
Respiration Protect (Specify Type)	2000000	None needed	when working at roo	m tem	perature and	in the	liquid state. At elevated temp- r wear a NIOSH-approved respirator.
Ventilation	Local Exhaust On heating o		On heating or	mist	Special	No	
	Mechani	cal (General)	 On heating or 		Other		No
Protective G	loves	Rubb	er	Ey	e Prote	ction	Chemical safety glasses
Other Protective	Goggl	es, lab coat	, apron, proper glo	ves,	eye wash sta	tion.	

SECTION IX

SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing Keep container tightly closed when not in use.

Store in a cool place away from acids and ammonia fumes. Wash thoroughly after handling.

Other Precautions

Read label on container before using. Do not wear contact lenses when working with chemicals.

Wash contaminated clothing before reuse.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children. Approved Alexander Piccirilli Chemical Safety Rev. No.No.1 Date 1/12/87

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