Science Ki onewards NY 14150 6781 MATERIAL SAFETY DATA SHEET Onewards NY 14150 6781 (715) 874 6020 Science Kit A Boreal Po Box 5059 815 Fiero Lane 815 Fier

	San Luis Obispo CA 93403 St Catherine	s, Ontario L2S 3T4			
SECTION I	NAME	4 HOUR EMERGEN	ICY ASS	SISTAN	CE
Product	COBALT CHLORIDE, 6-HYDRATE		MTREC		
Chemical Synonyms	Cobaltous Chloride, Hexahydrate		24-9300 6-226-6177	Health Fire	0
Formula	CoCl ₂ -6H ₂ O	NEPA		Reactivity	0
Unit(s) Size	25, 100, 500 grams; 2.5 Kg.	HAZARD RAT	ING ODERATE	HMIS HIGH EX	TREME
C.A.S. No.	7791-13-1	0 1	2	3	4
SECTION I	HAZARDOUS INC	REDIENTS OF MIX	TURES		
	ardous Component(s)	%	TL	V Units	
Coba	ılt Chloride, 6-Hydrate	100%	S	ee Section	V.

WARNING!	MAY BE HARMFUL IF SWAL	LOWED. HARMFUL	
IF INHALED.	MAY CAUSE SKIN AND EY	E IRRITATION.	
SECTION III	PHYSICAL D	ATA	
Melting Point (°F)	87°C (188°F)	Specific Gravity (H ₂ O = 1)	1.924 @ 20°C

SECTION III	PHYSICAL DATA			
Melting Point (°F)	87°C (188°F)	Specific Gravity (H ₂ O = 1)	1.924 @ 20°C	
Boiling Point (°F)	-6H ₂ O @ 110°C (230°F)	Percent Volatile by Volume (%)	Non-volatile (NA).	
Vapor Pressure (mm Hg)	40 mm @ 770°C	Evaporation Rate (=1)	Non-volatile (NA).	
Vapor Density (Air=1)	8.23			
Solubility in Water	Very soluble.		180	
Appearance & Odor	Damp red crystals; very slight hydrochloric acid odor.			

SECTION	V FIRE AN	D EXPLOSION HAZ	ARD	DATA	
Flash Point (Method Used)		Flammable Limits in Air	. [Lower	Upper
	Non-combustible (NA).	% by Volume	NA		
Extinguisher Media	Use any media suitable l	for extinguishing supporting fi	re.		

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH-approved, self-contained breathing apparatus and full protective clothing.

(1987 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.4, GUIDE PAGE NO. 31)

UNUSUAL FIRE AND EXPLOSION HAZARDS

See Section VI.

Fire or excessive heat may produce hazardous decomposition products.

D.O.T.	NON-REGULATED.

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20

SECTION V		EALTHHAZA	VEIDNDY-SI		
Threshold Limited Va	The second second second			<u> </u>	
		As Cobalt metal, du	ist or fume: TWA	: 0.1 mg/m ³ (Air).	(ACGIH 1983-84).
Effects of Overexposi	ure	INHALATION: Pro asthma-like symptorepeated exposure reaction. INGESTIP hotness. Excessive kidneys, lungs and	ms. <u>EYES</u> : Cau causes irritation a <u>DN</u> : May cause v inhalation and/o	ses irritation. <u>SK</u> and may result in a	N: Prolonged or
Emergency and First Aid Procedures		INHALATION: Remedical attention, stopped, give artific at least 15 minutes, immediate medical wash with mild soal give one or two glasphysician. Never give	f breathing is difficial respiration. Exiting upper and attention. SKIN: and water. ING upper to disease of water to disease.	cult, give oxygen. YES: Flush thoro lower eyelids occ Flush thoroughly ESTION: If swall rink, induce yomit	If breathing has ughly with water for assionally. Get with water, then been as for and cell to the state of t
SECTION VI			ATA		
Stability Unstable	C	onditions to Avo	id Moistu	re, excessive tem	perature and heat.
Stable	Х		Decon	poses on heating	in air at 400°C.
Incompatibility (Materials to Avoid)	Strong	oxidizers, such as Br ₂ ,			
Hazardous Decomposition Products	s	Sublimes at 500°C produce Hydrochlor	into HCl gas. The ic Acid.	ermal decomposit	ion or burning may
Hazardous Polymerization	C	onditions to Avo	id		
May Occur Will Not Oc	cur			lot applicable.	
X					
SECTION VII		PILL OR LEA	K PROCE	DURES	
Steps to be taken in cas	e				
material is released or s	pilled	Recover for a suitable co	use if not contam ontainer. Avoid g	inated. Sweep u enerating dust.	and place in
Waste Disposal Method	Discha	rge, treatment, or disposal	may be subject to F	ederal. State or Loc	allaws
Waste Disposal Welliou	J These	disposal guidelines are int	ended for the dispos	al of catalog-size qu	antities only.
	Dispo waste	ose of in an approved on disposal agency.	chemical landfill o	r contract with a li	censed chemical
SECTION VIII	SP	ECIAL PRO	ECTION	INFORMA	TION
Respiration Protection Non	e neede	d in normal laboratory	nandling. If dusty	conditions preva	l, work in ventilation
Local Exhaust		r a NIOSH-approved d Recommended.	Special Special	rator.	No.
Ventilation Mechanical (Ge		Recommended.	Other		No.
Protective Gloves		Rubber.	e Protectio	Chemic	al safety glasses.
					ar darety glasses.
Ottor Dodanii -	lah ma	t vented bond proper	alauga and aug t		
Other Protective Googles		at, vented hood, proper	-		
Other Protective Goggles Equipment Goggles	SP	ECIAL PREC	CAUTIONS	5	
Other Protective Equipment Goggles SECTION IX Precautions to be Taken	SP	ECIAL PREC	CAUTIONS e. Wash thoroug	bly after handling	Avoid
Other Protective Equipment Goggles SECTION IX Precautions to be Taken in Handling & Storing	SP S	ECIAL PREC Store in a cool, dry place contact with eyes, skin	CAUTIONS e. Wash thoroug	bly after handling	Avoid to blue
Other Protective Equipment Goggles SECTION X Precautions to be Taken in Handling & Storing Keep container lightly closed when not in use.	SP S	Store in a cool, dry place contact with eyes, skin a on drying (52-140°C).	EAUTIONS e. Wash thoroug and clothing. Col	hly after handling or turns from pink	. Avoid to blue
Other Protective Equipment Goggles SECTION IX Precautions to be Taken in Handling & Storing Keep container lightly closed when not in use.	SP S C D abel on conta	ECIAL PRE store in a cool, dry place contact with eyes, skin a on drying (52-140°C). siner before using. Do not wear	e. Wash thoroug and clothing. Col	hly after handling or turns from pink wking with chemicals.	to blue
Other Protective Equipment Goggles SECTION X Precautions to be Taken in Handling & Storing Keep container lightly closed when not in use.	SP Co o abel on conta	ECIAL PREC Store in a cool, dry place contact with eyes, skin a on drying (52-140°C). Store before using. Do not wear deliquescent material.	e. Wash thoroug and clothing. Col contact lenses when we Avoid generating	hly after handling or turns from pink or turns from pink or turns from pink or turns from turns from turns from the from turns from the from turns from tu	to blue
Other Protective Equipment Goggles SECTION IX Precautions to be Taken in Handling & Storing Keep container tightly closed when not in use. Other Precautions Read in	S C C O D D V C	Store in a cool, dry place contact with eyes, skin and drying (52-140°C). Sincer before using. Do not wear deliquescent material. And entillation. Remove and	e. Wash thoroug and clothing. Col contact lenses when we Avoid generating d wash contamina	hly after handling or turns from pink or turns from pink or turns from pink or turns from turns from turns from the from turns from the from turns from tu	to blue
Other Protective Equipment SECTION IX Precautions to be Taken in Handling & Storing Keep container lightly closed when not in use. Other Precautions Peed in For laboratory use only. Not for drug, for Rev. No. No. 3 Date	SP S C o o abel on conta D Ve ood or hou	Store in a cool, dry place contact with eyes, skin and drying (52-140°C). Sincer before using. Do not wear deliquescent material. entillation. Remove an assehold use. Keep out of many contacts and seeman assehold use. Keep out of many contacts and contacts are seen as a contact and contacts.	e. Wash thoroug and clothing. Col contact lenses when we Avoid generating d wash contamina auch of children. Alexander A. Picc	hly after handling or turns from pink rking with chemicals. dust. Use with acated clothing.	lequate
Other Protective Equipment Goggles SECTION X Precautions to be Taken in Handling & Storing Keep container lightly closed when not in use. Other Precautions Reed in	SP S C 0 outside on contain D V(c ood or hou	Contact with eyes, skin and drying (52-140°C). Since before using. Do not were beliquescent material. In entillation. Remove and seehold use. Keep out of many large wind.	e. Wash thoroug and clothing. Col contact lenses when we Avoid generating d wash contamina each of children. Alexander A. Picc	hly after handling or turns from pink rking with chemicals. dust. Use with adated clothing. Chemical Sal Coordinator	dequate