# **Suncycle Technologies, Inc.**Safety Data Sheet

Section 1. Product and Company Identification			
Product Name:	Hydrosorb-X	SDS#	2
Product Desc.:	Desiccant packet	Origin Date:	10/01/02
Supplier:	Suncycle Technologies, Inc.	Revision Date:	07/01/16
	PO Box 6214	Responsible Name:	Ronald A. Shelk
	Galena, IL 61036 USA		
Synonyms:	None		
Product Uses:	Removal of water from xylene		
Manufacturer:	Suncycle Technologies, Inc.	<del> </del>	
	PO Box 6214		
	Galena, IL 61036 USA		
	630-362-0260		

Section 2. Composition and Information on Ingredients			
Name	CAS#	% by Weight	Exposure Limits
1) Calcium Sulfate, Anhydrous	7778-18-9	97%	OSHA Final Rule (1989) TWA: 5 mg/m <sup>3</sup> Form: Respirable fraction TWA: 15 mg/m <sup>3</sup> Form: Total dust NIOSH REL (1994) TWA: 5 mg/m <sup>3</sup> Period: 10 hours Form: Respirable fraction TWA: 10 mg/m <sup>3</sup> Period: 10 hours Form: Total dust ACGIH (1994) TWA: 10 mg/m <sup>3</sup>
2) Cobalt Dichloride	1332-82-7	3%	ACGIH TLV (2000) TWA: 2 mg/m <sup>3</sup> TWA: 0.02 mg/m <sup>3</sup>

Section 3. Hazards Identification		
Physical State and	Solid blue chips. Odorless.	
Appearance		
Emergency Overview	Warning! Causes respiratory tract, eye and skin irritation. Contains material which	
	may cause cancer based on animal data. Contains material which causes damage to the following organs: respiratory tract, skin, eye, lens or cornea. May be harmful if	
	swallowed. Toxic to aquatic organisms. May be harmful to the environment if	
	released in large amounts.	
Potential Acute Health Effects		
Eyes	Hazardous in case of eye contact (irritant). Inflammation of the eye is characterized	
	by redness, watering, and itching.	
Skin	Hazardous in case of skin contact (irritant). Skin inflammation is characterized by	
<u> </u>	itching, scaling, reddening, or occasionally blistering.	
Inhalation	Hazardous in case of inhalation (lung irritant).	
Ingestion	May be harmful if swallowed.	
Potential Chronic Health	Carcinogenic Effects: Classified A3 (Proven for animal) by ACGIH, 2B (Possible	
Effects	for human.) by IARC [Cobalt Dichloride]. Classified 2 (Suspected for human) by	
	European Union [Cobalt Dichloride].	
	Mutagenic Effects: Not available.	
	Teratogenic Effects: Not available.	
Medical Conditions	Repeated exposure to a highly toxic material may produce general deterioration of	
Aggravated by Overexposure	health by an accumulation in one or many human organs.	
Overexposure	Skin, eyes and respiratory tract irritation.	
Signs/Symptoms		
See Toxicological Information (section 11)		

Hydrosorb-X Page 2/6

Section 4. First A	id Measures
Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush with plenty of water for at least 15 minutes. Cold water may be used. Seek medical attention immediately.
Skin Contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cold water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing and shoes before reuse. Seek medical attention immediately.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek immediate medical attention.
Ingestion	If swallowed, do not induce vomiting unless directed to do so by medical personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Seek immediate medical attention.
Notes to Physician	Not available.

Section 5. Fire Fighting Measures		
Flammability of the Product	Non-flammable	
Auto-ignition Temperature	Not applicable	
Flash Points	Not applicable	
Flammable Limits	Not applicable	
Products of Combustion	Not available	
Fire Hazard in Presence of	Not applicable	
Various Substances		
Explosion Hazards in	Risk of explosion of the product in presence of mechanical impact: No.	
Presence of Various	Risk of explosion of the product in presence of static discharge: No.	
Substances		
Fire Fighting Media	Not applicable	
And Instructions		
Protective Clothing (Fire)	Not applicable	
Special Remarks on Fire	Not available	
Hazards		
Special Remarks on	Not available	
Explosion Hazards		

Section 6. Accidental Release Measures		
Small Spill and Leak	Use appropriate tools to put the spilled solid in a convenient waste disposal container.	
Large Spill and Leak	Stop leak if without risk Do not touch spilled material. Use water spray to reduce dust. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local Authorities.	

Section 7.	Handling and Storage
Handling	Do not remove desiccant chips from plastic mesh pouch. Do not ingest. Do not breathe dust. Do not get in eyes, on skin, or on clothing.
Storage	Keep in manufacturer's vacuum-sealed plastic packaging until ready to use.

Hydrosorb-X Page 3/6

Section 8. Exposure (	Controls / Personal Protection
Engineering Controls	Provide exhaust ventilation or other engineering controls to keep airborne levels below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.
Personal Protection	
Eyes	Safety glasses
Body	Lab coat
Respiratory	Wear appropriate respirator when ventilation is inadequate
	Gloves
Feet	Not applicable
Personal Protection in Case	Splash goggles, Full suit, Dust respirator, Boots, Gloves. A self-contained breathing
of a Large Spill	apparatus should be used to avoid inhalation of the product. Suggested protective
	clothing might not be sufficient; consult a specialist BEFORE handling this product.
Product Name	Exposure Limits
1) Calcium Sulfate,	OSHA Final Rule (United States, 1989)
Anhydrous	TWA: 5 mg/m <sup>3</sup> Form: Respirable fraction
	TWA: 15 mg/m <sup>3</sup> Form: Total dust
	NIOSH REL (United States, 1994)
	TWA: 5 mg/m <sup>3</sup> Period: 10 hours
	Form: Respirable fraction
	TWA: 10 mg/m <sup>3</sup> Period: 10 hours.
	Form: Total dust
	ACGIH (United States, 1994)
	TWA: 10 mg/m <sup>3</sup>
	AUVA (Austria, 1995) MAK: 6 mg/m <sup>3</sup>
	BAUA (Germany, 1997) MAK: 6 mg/m <sup>3</sup>
Cobalt Dichloride	ACGIH TLV (United States, 2000)
	TWA: 2 mg/m <sup>3</sup>
0 10 1 10 10 10	TWA: 0.02 mg/m <sup>3</sup>
Consult local authorities for acc	eptable exposure limits.

Physical State and	nd Chemical Properties    Solid
Appearance	
Odor	Odorless
Taste	Not available
Color	Blue (Anhydrous) or Pink (Hydrated)
Molecular Weight	Not applicable
Molecular Formula	CaSO <sub>4</sub> ,Cl <sub>2</sub> Co
PH (1% Soln/Water)	Not available
Boiling/Condensation Point	Not available
Melting/Freezing Point	1559.9°C (2839.8°F) based on data for Calcium Sulfate, Anhydrous.
	Weighted average: 1534.82°C (2794.7°F)
Critical Temperature	Not available
Specific Gravity	Weighted average: 2.91 (Water=1)
Vapor Pressure	Not available
Vapor Density	Not available
Volatility	Not available
Odor Threshold	Not available
Evaporation Rate	Not available
VOC	Not available
Viscosity	Not available
LogK <sub>avg</sub>	Not available
Ionicity (in Water)	Not available
Dispersion Properties	See solubility in water.
Solubility	Partially soluble in water.
Physical Chemical Comments	Not available
Continued on Next Page	

Hydrosorb-X Page 4/6

Section 10. Stability and Reactivity		
Stability and Reactivity	The product is stable.	
Conditions of Instability	Not available	
Incompatibility with Various	Not available	
Substances		
Hazardous Decomposition	Sulfur Oxides (SO <sub>2</sub> , SO <sub>3</sub> ,)	
Products		
Hazardous Polymerization	Will not occur.	

Section 11. Toxicological Information		
RTECS Number	Calcium Sulfate, Anhydrous WS6920000 Cobalt Dichloride GF980000	
Toxicity to Animals	Acute oral toxicity (LD50): 55 mg/kg [Guinea pig]. (Cobalt Dichloride)	
Chronic Effects on Humans	CARSINOGENIC EFFECTS: Classified A3 (Proven for animal) by ACGIH, 2B (Possible for human.) IARC [Cobalt Chloride]. Classified 2 (Suspected for human.) by European Union [Cobalt Dichloride].	
Other Toxic Effects on Humans	Hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, watering, and itching. Hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or occasionally blistering. Hazardous in case of inhalation (lung irritant). May be harmful if swallowed.	
Synergetic Products (Toxicologically)	Not available	
Irritancy	Draize Test: Not available	
Sensitization	Hazardous in case of skin contact (sensitizer), of inhalation (lung sensitizer).	
Carcinogenic Effects	Classified A3 (Proven for animal) by ACGIH, 2B (Possible for human.) IARC [Cobalt Dichloride]. Classified 2 (Suspected for human.) by European Union [Cobalt Dichloride].	
Toxicity to Reproductive System	Not available	
Teratogenic Effects	Not available	
Mutagenic Effects	Not available	
Special Remarks on Other Toxic Effects on Humans	Not available	

Section 12. Ecological Information		
Ecotoxicity	Not available	
BOD5 and COD	Not available	
Biodegradable/OECD	Not available	
Mobility	Not available	
Toxicity of the Products of	The products of degradation are less toxic than the product itself.	
Biodegradation		
Special Remarks on the	Not available	
Products of Biodegradation		

Section 13. Disposal Considerations				
EPA Waste Number	Not available			
Treatment	The material does not have an EPA Waste Number and therefore is not a listed waste, however consultation with a permitted waste disposal site (TSD) should be accomplished. Always contact a permitted waste disposal site (TSD) to assure compliance with all current local, state, and Federal Regulations.			

Hydrosorb-X Page 5/6

Section 14. Transportation Information				
DOT Classification	Proper Shipping Name: CHEMICALS, N.O.S.			
	Reportable Quantity: Not applicable			
TDG Classification	Not available			
IMO/IMDG Classification	Proper Shipping Name: CHEMICALS, N.O.S.			
	Reportable Quantity: Not applicable			
ICAO/IATA Classification	Proper Shipping Name: CHEMICALS, N.O.S.			
	Reportable Quantity: Not applicable			

Section 15. Regulatory Information				
U.S. Federal Regulations	TSCA 8(b) inventory: Calcium Sulfate, Anhydrous; Cobalt Dichloride			
	SARA 302/304/311/312 extremely hazardous substances: No products were found			
	SARA 302/304 emergency planning and notification: No products were found.			
	SARA 302/304/311/312 hazardous chemicals: Cobalt Dichloride			
	SARA 311/312 MSDS distribution – chemical inventory – hazard identification: Cobalt Dichloride: Immediate (acute) Health Hazard, Delayed (Chronic) Health Hazard			
	SARA 313 toxic chemical notification and release reporting: Cobalt Dichloride: 3%;			
	Clean water act (CWA) 307: No products were found.			
	Clean water act (CWA) 311: No products were found.			
	Clean air act (CAA) 112 accidental release prevention: No products were found.			
	Clean air act (CAA) 112 regulated flammable substances: No products were found.			
	Clean air act (CAA) 112 regulated toxic substances: No products were found.			
WHMIS (Canada)	CLASS D-2B: Material causing other toxic effects (TOXIC).			
1	CEPA DSL: Calcium Sulfate, Anhydrous; Cobalt Dichloride			
	This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all required information.			
International Regulations				
EINECS	Calcium Sulfate, Anhydrous 231-900-3			
	Cobalt Dichloride 231-589-4			
DSCL (EEC)	R36/37/38- Irritating to eyes, respiratory system and skin.			
	R42/43- May cause sensitization by inhalation and skin contact.			
	R49- May cause cancer by inhalation			
	R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.			
International Lists	Austria (NICNAS): Calcium Sulfate, Anhydrous; Cobalt Dichloride			
	Germany water class: Cobalt Dichloride			
	Japan (MITI): Calcium Sulfate, Anhydrous; Cobalt Dichloride			
	Korea (TCCL): Calcium Sulfate, Anhydrous; Cobalt Dichloride			
	Philippines (RA6969): Calcium Sulfate, Anhydrous; Cobalt Dichloride			
	China: No products were found.			
State Regulations	ania RTK: Calcium Sulfate, Anhydrous: (generic environmental hazard); Cobalt Dichloride: (environmental hazard, generic environmental hazard)			
Massach	usetts RTK: Calcium Sulfate, Anhydrous			
New Jers	ey: Cobalt Dichloride			
California	prop 65: No products were found.			

Hydrosorb-X Page 6/6

Label Requirements				
Hazardous Material			National Fire	
Information System (U.S.A.)	Health	1	Protection	Fire Hazard
	Fire Hazard	0	Association	Health Reactivity Specific Hazard
	Reactivity Personal Protection	0	(U.S.A.)	
		а		
References	Not available			
Other Special	Not Available			
Considerations				

Notice to Reader
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