HAZTE	CH [®] Materi	al Safety Dat	a Sheet	Page 1 of 4
SYSTEM	<u> </u>	HMIS Health Hazard	1	PPE (See Section 15)
INC.		Fire Hazard Reactivity	$\frac{1}{3}$	
Section 1. Chen	nical Product and Company I	dentification		
Trade Name	Chromium Test		Part #	RE2028
			CAS #	67-56-1 / 140-22-7
Manufacturer	PO Box 929		RTECS	PC1400000 / Not available
	Mariposa, CA 95338		TSCA	TSCA 8(b) inventory: Methyl alcohol
Commercial Name				1,5-Diphenylcarbohydrazide
Synonyms			CI #	
Chemcal Family				mergency contact CHEMTREC at 800-424-9300
Chemical Formula	CH3OH, C13H14N4O		HazTech Sy	vstems, Inc. 800-543-5487
	Spectrum Chemical Mfg. Corp. 310-		Chemical Mfg. Corp. 310-516-8000	
Supplier		orp.		
	Gardena, CA 90248			
Trade Name Manufacturer Commercial Name Synonyms	Chromium Test Haztech Systems, Inc. PO Box 929 Mariposa, CA 95338 CH3OH, C13H14N4O Spectrum Chemical Mfg. C 14422 S. San Pedro St.		CAS # RTECS TSCA CI # In case of e (24 hours) HazTech Sy	67-56-1 / 140-22-7 PC1400000 / Not available TSCA 8(b) inventory: Methyl alcohol 1,5-Diphenylcarbohydrazide mergency contact CHEMTREC at 800-424-9300 vstems, Inc. 800-543-5487

Section 2. Composition and Information on Ingredients

	Exposure Limits					
Name		CAS #	TWA (mg/m3)	STEL	CEIL (mg/m3)	% by Weight
Methyl alcohol {1,5-}Diphenylcarbohydrazide		67-56-1 140-22-7	260	325		99% 1%
ToxicologicalMethyl alcohol:Data onORAL (LD50): Acute: 5628 mg/kg (Rat.).IngredientsDERMAL (LD50): Acute: 15800 mg/kg (Rabbit.).			LD50	Piphenylcarbohydrazide 9: Not available. : Not available.		

Section 3. Hazards Identification

Potential Acute Health Effects	Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeator). Severe over-exposure can result in death.
Potential Chronic Health Effects	CARCINOGENIC EFFECTS: Classified 4 (No evidence.) by NTP, None. by OSHA. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Classified POSSIBLE for human. DEVELOPMENTAL TOXICITY: Classified Reproductive system/toxin/female, Development toxin [POSSIBLE]. The substance is toxic to the nervous system, gastrointestinal tract, eyes. The substance may be toxic to blood, kidneys, lungs, the reproductive system, liver, heart, brain, cardiovascular system, skin, central nervous system (CNS), pancreas. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

Chromium Test

Section 4. First Aid Mearsures			
Eye Contact	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Get medical attention.		
Skin Contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.		
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.		
Ingestion	If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.		

Section 5. Fire and Explosion Data

Flammability	Flammable.
Auto-Ignition Temperature	464°C (867.2°F)
Flash Point	CLOSED CUP: 12°C (53.6°F). OPEN CUP: 16°C (60.8°F).
Flammable Limits	LOWER: 6% UPPER: 36.5%
Products of Combustion	These products are carbon oxides (CO, CO2).
Fire Hazards in Presence of Various Substances	Highly flammable in presence of open flames and sparks, of heat, of combustible materials.
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.
Fire Fighting Media and Instructions	Flammable liquid, soluble or dispersed in water. SMALL FIRE: Use DRY chemical powder.
Special Remarks on Fire Hazards	CAUTION: MAY BURN WITH NEAR INVISIBLE FLAME. Explosive when mixed with Choroform + sodium methoxide and diethyl zinc. It boils violently and explodes.

Section 6. Accidental Release Measures

Small Spill Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.

Section 7. Handling and Storage			
Precautions	Keep away from sources of accidental ignition. Do not ingest. Do not breathe gas/fumes/ vapor/spray. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes.		
Storage	Keep in HazCat Kit.		
Section 8. Exposure Controls/Personal Protection			
Engineering Co	ntrols Use in a well ventilated area.		
Personal Protect	ion Gloves and goggles.		

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Section 9. Physical and C	hemical Properties		
Physical State and Appearance	Clear liquid	Volatility	Not available.
Molecular Weight	32.04 g/mole	Odor Threshold	100 ppm
pH (1% Solution in Water)	Not available	Water/Oil Dist. Coeff.	Not available.
Boiling Point	64.5°C (148.1°F)	Ionicity (in Water)	Non-ionic.
Melting Point	-97.8°C (-144°F)	Dispersion Properties	See solubility in water, methanol.
Critical Temperature	240°C (464°F)	Solubility	Easily soluble in water, methanol.
Specific Gravity	0.796 (Water = 1)	Odor	Alcohol like.
Vapor Pressure	13.3 kPa (@ 20°C)	Taste	Not available.
Vapor Density	1.11 (Air = 1)	Color	Colorless.
Section 10. Stability and	l Reactivity Data		
Stability	Product is stable.	Corrosivity	Non-corrosive in
Instability Temperature	Not available.	Special Remar on Corrosivity	
Conditions of Instability	Not available.		
Incompatability with Various Substances Special Remarks on Reactivity	Polymerization Will not polymerize. Highly reactive with oxidizing agents. Reactive with metals. Violent reaction with alkyl aluminum salts, acetyl bromide, chloroform + sodium methoxide, chromic anhydride, cyanuirc chlorite, lead perchlorate, phosphorous trioxide, nitric acid. Exothermic reaction with sodium hydroxide + chloroform. Incompatible with beryllium dihydride, metals (potassium and		
	magnesium), oxidants (barium perchlorate, bromine, sodium hypochlorite, chlorine, hydrogen peroxide), potassium tert-butoxide, carbon tetrachloride, metals (aluminum, magnesium, zinc), and dichlormethane. May attack some plastics, rubber, and coatings.		
Section 11. Toxicological	Information		
Route of Entry Toxicity to Animals	Absorbed through skin. Eye contact. Inhalation. Ingestion. Acute oral toxicity (LD50): 5628 mg/kg (Rat.). Acute dermal toxicity (LD50): 15800 mg/kg (Rabbit.). Acute toxicity of the vapor (LC50): 64000 4 hours (Rat.). Very hazardous in case of ingestion, of inhalation. Slightly hazardous in		

case of skin contact (irritant).

Development toxin [POSSIBLE].

lungs, mucous membranes.

CARCINOGENIC EFFECTS: Classified 4 (No evidence.) by NTP, None. by OSHA. TERATOGENIC EFFECTS: Classified POSSIBLE for human. DEVELOPMENTAL TOXICITY: Classified Reproductive system/toxin/female,

Causes damage to the following organs: the nervous system, gastrointestinal tract, eyes. May cause damage to the following organs: blood, kidneys, lungs, the reproductive system, liver, heart, brain, cardiovascular system, skin, central nervous system (CNS), pancreas. Causes damage to the following organs:

Hazardous in case of skin contact (irritant), of ingestion, of inhalation.

Slightly hazardous in case of skin contact (permeator).

Chroinc Effects on Humans

Other Toxic Effects on Humans

Special Remarks on Toxicity to Animals Special Remarks on Chronic Effects on Humans Special Remarks on Other Toxic Effects on Humans

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Not available.

Not available.

Not available.

Humans

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		6		
Section 12. Ecolog	gical Information			
Ecotoxicity		Not available.		
BOD5 and COD		Not available.		
Products of Biodegradation		Possibly hazardous short term degradation products are not likely. However, long term degradation products mayarise.		
Toxicity of the Products of Biodegradation		The products of degradation are more toxic.		
Special Remarks on the	Products of Biodegradation N	Not available.		
Section 13. Dispo	sal Considerations			
Waste Disposal	Recycle to process, if possible. Cor	nsult your local or regional authorities.		
Section 14. Transp	ort Information			
DOT Classification	CLASS 3: Flammable liquid.			
Identification	Methanol, 3, UN1230, II			
Special Provisions for Transport	*			
Section 15. Other	Regulatory Information and I	Pictograms		
Federal and State Regul	Pennsylvania RTK: M Minnesota: Methyl a Massachusetts RTK: New Jersey: Methyl a California Directors Tennesse Hazardous TSCA 8(b) inventory SARA 313 toxic cher CERCLA: Hazardou TSCA 8(b) inventory	lcohol Methyl alcohol Ilcohol List of Hazardous Substances (8CCR 339): Methyl alcohol Right to Know : Methyl alcohol		
California Proposition	55 Warnings			
Other Regulation		y definition of Hazard Communication Standard (29 CFR 1910.1200). Ict is on the European Inventory of Existing Commercial Chemical Substances.		
Other classifications WHMIS (Canada) CLASS D-1A: Ma		CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F). rial causing immediate and serious toxic effects (VERY TOXIC). rial causing other toxic effects (VERY TOXIC).		
		11- Highly flammable. 23/24/25- Toxic by inhalation, in contact with skin and if swallowed.		
Section 16. Other	Information			
Part Number(s)RE2028ReferencesNot available.Other Special ConsiderationsNot available.Validated byR. Houghton 10/Verified byR. TurkingtonCall 1-800-543-5487Notice to Reader		9/02		

Notice to Reader

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Haztech Systems, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.