



# **Material Safety Data Sheet**

NFPA

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HMIS	
Health Hazard	2
Fire Hazard	1
Reactivity	0

**Personal Protective Equipment** 



See Section 15.

Section 1. Chemical Product and Company Identification			Page Number: 1 of 6	
Trade Name	Chloropicrin Test 2	Code	RE2132	
Manufacturer		CAS#	108-46-3	
Manufacturer	HazTech Systems, Inc. P.O. Box 929	RTECS	VG9625000	
		TSCA	TSCA 8(b) inventory. Resorcinol	
Commercial Name(s)	Resorcin	CI#	Not available.	
Synonym	1,3-Benzenediol; m-dihydroxybenzene			
Chemical Name	Resorcinol		<u>IN CASE OF EMERGENCY</u> <u>CHEMTREC (24hr) 800-424-9300</u>	
Chemical Family	Not available.	CALL (310) 5	16-8000	
<b>Chemical Formula</b>	C6H6O2			
Supplier	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248			

#### Section 2.Composition and Information on Ingredients

			Exposure Limits		
Name	CAS #	TWA (mg/m³)	STEL (mg/m³)	CEIL (mg/m <sup>3</sup> )	% by Weight
1) Resorcinol	108-46-3	10	20		100

Toxicological Data on Ingredients

Resorcinol ORAL (LD50): DERMAL (LD50):

Acute: 301 mg/kg [Rat]. 200 mg/kg [Mouse]. Acute: 3360 mg/kg [Rabbit].

#### 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).

<b>Potential Chronic Health</b>	CARCINOGENIC EFFECTS Classified 4 (No evidence.) by NTP. A4 (Not classifiable for human or animal.) by
Effects	ACGIH, 3 (Not classifiable for human.) by IARC.
	MUTAGENIC EFFECTS Mutagenic for bacteria and/or yeast.
	TERATOGENIC EFFECTSNot available.
	DEVELOPMENTAL TOXICITYNot available.
	The substance may be toxic to liver, cardiovascular system, endocrine.
	Repeated or prolonged exposure to the substance can produce target organs damage.

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#### Section 4. First Aid Measures

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.
In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.
Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.
Not available.

# Section 5. Fire and Explosion Data

Flammability of the Product	May be combustible at high temperature.
Auto-Ignition Temperature	607.78∞C (1126∞F)
Flash Points	CLOSED CUP: 127.22∞C (261∞F).
Flammable Limits	Not available.
Products of Combustion	These products are carbon oxides (CO, CO2).
Fire Hazards in Presence of Various Substances	Slightly flammable to flammable in presence of open flames and sparks, of heat.
Explosion Hazards in Presence of Various Substances	e 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	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
Special Remarks on Fire Hazards	Not available.
Special Remarks on Explosion	Potentially explosive reaction with nitric acid.

Hazards

**Small Spill** 

#### Section 6. Accidental Release Measures

Use appropriate tools to put the spilled solid in a convenient waste disposal container.

Large Spill Use a shovel to put the material into a convenient waste disposal container. 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

Precautions	Keep locked up. Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, acids.
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area.

## Section 8. Exposure Controls/Personal Protection

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Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Personal Protection	Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.
Personal Protection in Case of a Large Spill	f Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
Exposure Limits	TWA: 45 STEL: 90 (mg/m²) from ACGIH (TLV) [United States] TWA: 10 STEL: 20 (ppm) from ACGIH (TLV) [United States] TWA: 10 STEL: 20 from NIOSH [United States] TWA: 45 STEL: 90 (mg/m²) from NIOSH [United States] TWA: 10 STEL: 20 (ppm) from OSHA (PEL) [United States] TWA: 45 STEL: 90 (mg/m²) from OSHA (PEL) [United States] TWA: 10 STEL: 20 (ppm) [United Kingdom (UK)] TWA: 46 STEL: 92 (mg/m²) [United Kingdom (UK)]

Consult local authorities for acceptable exposure limits.

## Section 9. Physical and Chemical Properties

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Physical state and appearance	Solid. (Crystals solid. Powdered solid.)	Odor	Characteristic. (Slight.)
Molecular Weight	110.11 g/mole	Taste	Sweetish followed by bitter.
-	-	Color	White.
pH (1% soln/water)	Not available.		
<b>Boiling Point</b>	281∞C (537.8∞F)		
Melting Point	110∞C (230∞F)		
Critical Temperature	Not available.		
Specific Gravity	1.272 (Water = 1)		
Vapor Pressure	Not applicable.		
Vapor Density	3.8 (Air = 1)		
Volatility	Not available.		
Odor Threshold	Not available.		
Water/Oil Dist. Coeff.	The product is more soluble in oil; log(oil/water)	= 0.8	
Ionicity (in Water)	Not available.		
<b>Dispersion Properties</b>	See solubility in water, diethyl ether.		
Solubility	Easily soluble in cold water, diethyl ether.		

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Section 10. Stability	and Reactivity Data
Stability	The product is stable.
Instability Temperature	Not available.
Conditions of Instability	Excess heat, incompatible materials
Incompatibility with various substances	Reactive with oxidizing agents, acids.
Corrosivity	Non-corrosive in presence of glass.
Special Remarks on Reactivity	Incompatible with acetanilide, albumin, alkalies, antipyrine, camphor, ferri salts, menthol, spirit nitrous ethe urethane, periodate. When heated to decomposition, it emits acrid smoke and irritating fumes.
Special Remarks on Corrosivity	Not available.
Polymerization	Will not occur.

### Section 11. Toxicological Information

Routes of Entry	Absorbed through skin. Dermal contact. Inhalation. Ingestion.
Toxicity to Animals	Acute oral toxicity (LD50): 200 mg/kg [Mouse]. Acute dermal toxicity (LD50): 3360 mg/kg [Rabbit].
Chronic Effects on Humans	<ul> <li>CARCINOGENIC EFFECTS Classified 4 (No evidence.) by NTP. A4 (Not classifiable for human or animal.) by ACGIH, 3 (Not classifiable for human.) by IARC.</li> <li>MUTAGENIC EFFECTS Mutagenic for bacteria and/or yeast.</li> <li>May cause damage to the following organs: liver, cardiovascular system, endocrine.</li> </ul>
Other Toxic Effects on Humans	Hazardous in case of skin contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeator).
Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans	May cause cancer based on animal data. No human data found May affect genetic material.
Special Remarks on other Toxic Effects on Humans	Acute Potential Health Effects: Skin: Causes skin irritation. It may be absorbed through the skin and affect metabolism. Eyes: Causes eye irritation. Inhalation: Causes respiratory tract and mucous membrane irritation. Ingestion: May cause gastrointestinal tract irritation. It may affect the blood (methemoglobinemia), respiration (cyanosis. dyspnea), behavior/nervous system(convulsions, excitement, tetany, coma, spastic paralysis), cardiovascular system (hypotension), liver, and kidneys. Chronic Potential Health Effects: Skin: Prolonged or repeated skin contact may cause dermatitis, an allergic skin reaction. Ingestion: Prolonged or repeated ingestion may affect the endocrine system (adrenal gland, thymus), liver, kidneys, and metabolism.

## Section 12. Ecological 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 may arise.
Toxicity of the Products of Biodegradation	The products of degradation are less toxic than the product itself.



Special Remarks on the Not available. Products of Biodegradation

#### Section 13. Disposal Considerations

Waste Disposal

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

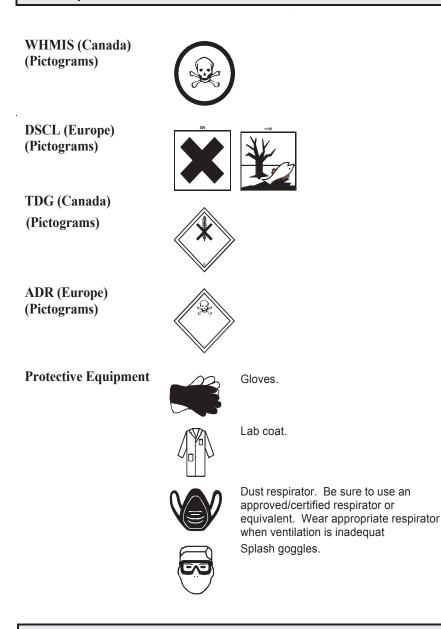
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#### Section 14. Transport Information

DOT Classification	CLASS 6.1: Poisonous material.
Identification	: Resorcinol UNNA: 2876 PG: III
Special Provisions for Transport	Not available.
DOT (Pictograms)	HENER BARAN
Section 15. Other	Regulatory Information and Pictograms

Federal and State Regulations	Illinois toxic substar Illinois chemical saf New York release ro Rhode Island RTK I Pennsylvania RTK: Minnesota: Resorcii Massachusetts RTK Massachusetts spill New Jersey: Resorci New Jersey spill list Louisiana spill repor California Director's TSCA 8(b) inventor	eporting list: Resorcinol nazardous substances: Resorcinol Resorcinol nol (: Resorcinol list: Resorcinol cinol : Resorcinol rting: Resorcinol List of Hazardous Substances: Resorcin	nol
California Proposition 65			
Other Regulations		by definition of Hazard Communication S uct is on the European Inventory of Exist	
Other Classifications	WHMIS (Canada)	CLASS D-1B: Material causing immed CLASS D-2B: Material causing other	diate and serious toxic effects (TOXIC). toxic effects (TOXIC).
	DSCL (EEC)	R22- Harmful if swallowed. R36/38- Irritating to eyes and skin. R50- Very toxic to aquatic organisms.	<ul> <li>S2- Keep out of the reach of children.</li> <li>S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.</li> <li>S46- If swallowed, seek medical advice immediately and show this container or label.</li> <li>S61- Avoid release to the environment. Refer to special instructions/Safety data sheets.</li> </ul>
HMIS (U.S.A.)	Health Hazard Fire Hazard Reactivity Personal Protection	(2)(1)(0)(0)(1)(2)(2)(3)(4)(4)(5)(5)(7)<	

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#### Section 16. Other Information

Catalog Number(s)	RE2132	
References	Not available.	
Other Special Considerations	Not available.	

Validated by R. Turkington Verified by R. Turkington

#### CALL (310) 516-8000

#### 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, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.