



Material Safety Data Sheet



HMIS

Health Hazard	2
Fire Hazard	1
Reactivity	0

PPE (See Section 15)



Section 1. Chemical Product and Company Identification

Trade Name **Amino Acid Test** Parr # RE2111

Manufacturer Haztech Systems, Inc. CAS # 485-47-2
 PO Box 929 RTECS NK5425000
 Mariposa, CA 95338 TSCA TSCA8(b) inventory:
 Ninhydrin

Commercial Name Ninhydrin CI #

Synonym 1,2,3-Triketohydrindone monohydrate

Chemical Formula $C_9H_4O_3 \cdot H_2O$

Supplier Spectrum Chemical Mfg. Corp.
 14422 S. San Pedro St.
 Gardena, CA 90248

In case of emergency contact CHEMTREC
 (24 hours) at 800-424-9300

HazTech Systems, Inc. 800-543-5487
 Spectrum Chemical Mfg. Corp. 310-516-8000

Section 2. Composition and Information on Ingredients

Exposure Limits

Name	CAS #	TWA (mg/m3)	STEL	CEIL (mg/m3)	% by Weight
Ninhydrin	485-47-2				100%

Toxicological Data on Ingredients
 Ninhydrin: LC50: Not available
 LD50: Not available

Section 3. Hazards Identification

Potential Acute Health Effects Very hazardous in case of ingestion. Hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation. Slightly hazardous in case of skin contact (permeator).

Potential Chronic Health Effects CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available.
 TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available.
 Repeated or prolonged exposure is not known to aggravate medical condition.

Section 4. First Aid Measures

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. Do not use an eye ointment. Seek medical attention.
Skin Contact	After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Cold water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.
Inhalation	Allow the victim to rest in a well ventilated area. Seek immediate medical attention.
Ingestion	Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Section 5. Fire and Explosion Data

Flammability	May be combustible at high temperature.
Auto-Ignition Temperature	Not available.
Flash Point	Not available.
Flammable Limits	Not available
Products of Combustion	These products are carbon oxides (CO, CO ₂).
Fire Hazards in Presence of Various Substances	Not available.
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	SMALL FIRE: Use DRY chemical powder, water, CO ₂ .

Section 6. Accidental Release Measures

Small Spill	Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
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Section 7. Handling and Storage

Precautions	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 breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible. Avoid contact with skin and eyes.
Storage	Keep in HazCat Kit.

Section 8. Exposure Controls/Personal Protection

Engineering Controls	Use in a well ventilated area.
Personal Protection	Gloves and goggles.

Section 9. Physical and Chemical Properties

Physical State and Appearance	Solid	Volatility	Not available
Molecular Weight	178.14 g/mole	Odor Threshold	Not available
pH (1% Solution in Water)	Not available	Water/Oil Dist. Coeff.	Not available
Boiling Point	Not available	Ionicity (in Water)	Not available
Melting Point	Decomposes. (241°C or 465.8°F)	Dispersion Properties	Not available
Critical Temperature	Not available	Solubility	Soluble in water.
Specific Gravity	Not available	Odor	Not available
Vapor Pressure	Not available	Taste	Not available
Vapor Density	Not available	Color	Not available

Section 10. Stability and Reactivity Data

Stability	Product is stable.	Corrosivity	Not available.
Instability Temperature	Not available.	Special Remarks on Corrosivity	Not available.
Conditions of Instability	Not available.	Polymerization	Will not polymerize.
Incompatibility with Various Substances	Not available.		

Section 11. Toxicological Information

Route of Entry	Eye contact. Inhalation. Ingestion.
Toxicity to Animals	LD50: Not available. LC50: Not available.
Chronic Effects on Humans	Not available.
Other Toxic Effects on Humans	Very hazardous in case of ingestion. Hazardous in case of skin contact (irritant), 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	Not available.
Special Remarks on Other Toxic Effects on Humans	Not available.

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 more toxic.
Special Remarks on the Products of Biodegradation	Not available.

Section 13. Disposal Considerations

Waste Disposal

Section 14. Transport Information

DOT Classification Not a DOT controlled material (United States).

Identification Not applicable.

Special Provisions for Transport Not applicable.

Section 15. Other Regulatory Information and Pictograms

Federal and State Regulations TSCA 8(b) inventory: Ninhydrin

California Proposition 65 Warnings

Other Regulation

Other classifications WHMIS (Canada) CLASS D-2B: Material causing other toxic effects (TOXIC).

DSCL (EEC) R36/38- Irritating to eyes and skin.

Section 16. Other Information

Part Number(s) RE2111

References Not available.

Other Special Considerations Not available.

Validated by R. Houghton 7/25/02

Verified by R. Turkington

Call 1-800-543-5487

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.