

Material Safety Data Sheet

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PPE (See Section 15)





Health Hazard	2
Fire Hazard	0
Reactivity	0

HMIS





Aniline Test Trade Name Part # RE2006

> CAS# 1313-13-9

Manufacturer Haztech Systems, Inc.

PO Box 929

Mariposa, CA 95338

RTECS OP0350000

TSCA TSCA8(b) inventory:

manganese dioxide

Manganese dioxide Commercial Name

Synonyms CI#

In case of emergency contact CHEMTREC

(24 hours) at 800-424-9300

HazTech Systems, Inc. 800-543-5487

MnO2 Spectrum Chemical Mfg. Corp. 310-516-8000

Spectrum Chemical Mfg. Corp.

14422 S. San Pedro St. Gardena, CA 90248

Section 2. Composition and Information on Ingredients

Exposure Limits					
Name	CAS #	TWA (mg/m3)	STEL	CEIL (mg/m3)	% by Weight
Manganese dioxide	1313-13-9	1		3	100%

Toxicological

Chemical Formula

Supplier

Manganese dioxide: ORAL (LD50): Acute: 9000 mg/kg (Rat).

Data on Ingredients

Section 3. Hazards Identification

Potential Acute Health Effects

Hazardous in case of eye contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant). Prolonged exposure may result in skin burns and ulcerations. Over-exposure by inhalation may cause

respiratory irritation.

Potential Chronic Health Effects

CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available.

The substance is toxic to blood, kidneys, lungs, the nervous system.

Repeated or prolonged exposure to the substance can produce target organs damage.

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Section 4. First Aid Mearsures

Eye Contact Check for and remove any contact lenses. 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. Be particularly careful to clean folds, crevices, creases and groin.

Cover the irritated skin with an emollient. If irritation persists, seek medical attention.

Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get

medical attention immediately.

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 Non-flammable.

Auto-Ignition Temperature Not applicable.

Flash Point Not applicable.

Flammable Limits Not applicable.

Products of Combustion Not applicable.

Fire Hazards in Presence of Various Substances

Not applicable.

Explosion Hazards in Presence

of Various Substances

Not applicable.

Fire Fighting Media

and Instructions

Not applicable.

Special Remarks on Fire Hazards

Not applicable.

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.

Section 7. Handling and Storage

Precautions Do not ingest. Do not breathe dust. Avoid contact with 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.

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Section 9. Physical and C	hemical Properties					
Physical State and Appearance	Gray solid		Volatility		Not available	
Molecular Weight	86.94 g/mole		Odor Threshold	Not availab	le	
pH (1% Solution in Water)	Not available		Water/Oil Dist. Coeff.	Not availab	le	
Boiling Point	86.94 g/mole		Ionicity (in Water)	Not availab	ole	
Melting Point	Decomposes. (535°C or 995°F)		Dispersion Properties	Not available		
Critical Temperature	Not available		Solubility	Insoluble in	Insoluble in cold water.	
Specific Gravity	5 (Water = 1)		Odor	Not available		
Vapor Pressure	Not available		Taste	Not available		
Vapor Density	Not available		Color	Gray		
Section 10. Stability and	d Reactivity Data					
Stability	Product is stable.	Corrosivity			Non-corrosive in	
Instability Temperature	Not available.		Special Remarks Not availa on Corrosivity		presence of glass. Not available.	
Conditions of Instability	Not available.				TYPII I	
Incompatability with Various Substances	Not available.				Will not polymerize.	
Section 11. Toxicological	Information					
Route of Entry	Eye contact. Inhalation. Ingestion.					
Toxicity to Animals	Acute oral toxicity (LD50): 9000 mg/kg (Rat).					
Chroinc Effects on Humans	The substance is toxic to blood, kidneys, l			s, lungs, the ne	ervous system.	
Other Toxic Effects on Humans	ner Toxic Effects on Humans Hazardous in case of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant).			hazardous in case of		
Special Remarks on Toxicity to Animals Special Remarks on Chronic Effects on Humans		Not available. Decrease of sperm count in human.				

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Section	12.	Ecol	09102	l In	to:	rmation

Special Remarks on Other Toxic Effects on Humans

Ecotoxicity Not available.

BOD5 and COD Not available.

Products of Biodegradation Possibly hazardous short term degradation products are not likely. However,

Not available.

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 Not available. Aniline Test Page 4 of 4

Section 13. Disposal Considerations

Waste Disposal Recycle to process, if possible. Consult your local or regional authorities.

Section 14. Transport Information

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

Identification Not applicable.

Special Provisions

Not applicable.

for Transport

Section 15. Other Regulatory Information and Pictograms

Federal and State Regulations Pennsylvania RTK: Manganese dioxide

Massachusetts RTK: Manganese dioxide TSCA 8(b) inventory: Manganese dioxide

SARA 313 toxic chemical notification and release reporting: Manganese dioxide

California Proposition 65 Warnings

Other Regulation OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other classifications WHMIS (Canada) CLASS C: Oxidizing material. CLASS D-2B: Material causing other

toxic effects (TOXIC).

DSCL (EEC) R36- Irritating to eyes.

Section 16. Other Information

Part Number(s) RE2006

References Not available.

Other Special Considerations Not available.

Validated by R. Houghton 5/13/02

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.