

Micro Typing Systems, Inc.

an Ortho-Clinical Diagnostics company

Material Safety Data Sheet

Product code: OCDMTS- MTS9325/MTS9330
Revision date: 10/21/2004

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Supplier:

Micro Typing Systems
an Ortho Clinical Diagnostics Company
1295 S.W. 29th Avenue
Pompano Beach, FL 33069

Customer service telephone: (800) 421-3311
Emergency telephone number: (800) 424-9300 (24 hours)
Product name: MTS DILUENT 2 Plus™ Red Blood Cell Diluent
Product code: OCDMTS- MTS9325/MTS9330

2. HAZARDS IDENTIFICATION

Emergency overview: Irritating to eyes and skin.

Properties affecting health: None.

Principal routes of exposure:

- Oral: No effects expected.
- Eye contact: Irritating to eyes.
- Skin contact: Irritating to skin.
- Ingestion: No effects expected.
- Inhalation: No effects expected.

Physico-chemical properties: No hazards resulting from material as supplied.

Hazard information:

- Target organ effects: Unknown on product.
- Reproductive effects: Unknown on product.
- Mutagenic effects: Unknown on product.
- Sensitization: Unknown on product.

Carcinogenicity rating:

Components	CAS Number	J & J:	NTP:	IARC:	California Proposition 65 List:
Sodium Hydroxide	1310-73-2	Not Determined.	Not Determined.	Not Determined.	Not Determined.

Signs and symptoms: None.

Medical conditions aggravated by exposure: None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

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Components	CAS Number	Weight %	J&J - OEL Data (TWA - 8 hr)	J&J - OEL Data (STEL):	J&J - OEL Data (Ceiling Limit Value):	J&J - PBOEL
Sodium Hydroxide	1310-73-2	<1	Not Determined	Not Determined	Not Determined	Not Determined

FIRST AID MEASURES

Eye contact:	Immediately flush eye(s) with plenty of water. If eye irritation persists, consult a specialist.
Ingestion:	No information available. Consult a physician.
Inhalation:	Not hazardous by inhalation.
Skin contact:	Wash off immediately with soap and plenty of water. If a person feels unwell or symptoms of skin irritation appear, consult a physician.
Protection of first-aiders:	No information available.
Notes to physician:	None.

5. FIRE-FIGHTING MEASURES

Flash point (°F):	Unknown on product.
Flash point (°C):	Unknown on product.
Autoignition temperature:	Unknown on product.
Flammable limits in air - lower (%):	Unknown on product.
NFPA rating:	Not determined.
Fire fighting information:	
Suitable extinguishing media:	Use any extinguishing media which is suitable for the surrounding fire.
Extinguishing media which must not be used for safety reasons:	None.
Specific methods:	None.
Special protective equipment for firefighters:	Wear a self-contained breathing apparatus and full protective gear.
Hazardous combustion products:	None.
Explosivity:	None.
Explosion limits:	
lower:	None.
upper:	None.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Ensure adequate ventilation.
Environmental precautions:	Waste disposal must be in accordance with appropriate US, Federal, State and International regulations.
Methods for cleaning up:	Wipe up with adsorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly. Scoop into suitable container for disposal.

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7. HANDLING AND STORAGE

Handling:

Technical measures/precautions:
Safe handling advice:

Wear protective safety glasses, gloves and clothing.
Wear disposable gloves while handling reagents. Thoroughly wash hands afterwards.

Storage:

Technical measures/storage conditions:
Incompatible products:

Store opened and unopened containers at 2 to 8°C.
No special restrictions on storage with other products.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls:	Ensure adequate ventilation.
Eye protection:	Wear suitable gloves and eye/face protection
Hand protection:	Wear suitable gloves and eye/face protection
Skin and body protection	Wear suitable protective clothing.
Respiratory protection:	None required.
Other/general protection:	None.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Color:	Colorless
pH:	6.9 - 7.3
Odor:	Not applicable.

10. STABILITY AND REACTIVITY

Chemical stability:	Stable under recommended storage conditions.
Hazardous polymerization:	Will not occur.
Hazardous decomposition products:	None known.
Materials to avoid:	None known
Conditions to avoid:	Do not freeze. Keep away from heat and sources of ignition

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Local effects

Oral:	Unknown on product.
Eye irritation	Irritating to the eyes.

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Skin irritation: Irritating to the skin.
Inhalation: Unknown on product.

Chronic toxicity
Oral: Unknown on product.
Inhalation: Unknown on product.
Dermal: Unknown on product.

Subchronic toxicity
Oral: Unknown on product.
Dermal: Unknown on product.

Specific effects

Corrosive effects: Unknown on product.
Sensitization: Unknown on product.
Target organ effects: Unknown on product.
Mutagenic effects: Unknown on product.

Reproductive effects: Unknown on product.
Developmental effects: Unknown on product.

Carcinogenic effects: Unknown on product.

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Ecotoxicity effects: This product has no known eco-toxicological effects.
Aquatic toxicity effects: This product has no known aquatic toxicological effects.

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products: Waste disposal must be in accordance with appropriate US, Federal, State and International regulations.
Contaminated packaging: Waste disposal must be in accordance with appropriate US, Federal, State and International regulations.
Methods for cleaning up: Wipe up with adsorbent material (e.g. cloth, fleece).
Clean contaminated surface thoroughly.
Scoop into suitable container for disposal.

14. TRANSPORT INFORMATION

Product not regulated by DOT, IATA/ICAO, IMO/IMDG, ADR/RID, or TDG.

15. REGULATORY INFORMATION

Components	CAS Number	Weight %	EPCRA (SARA Title III) Section 313 Toxic Chemical -	EPCRA (SARA Title III) Section 302 Extremely Hazardous Substance -	CERCLA Hazardous Substances:	RCRA status:
Sodium Hydroxide	1310-73-2	<1			Listed.	

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Components	CAS Number	Weight %	ACGIH TLV (TWA - 8hr)	ACGIH TLV (STEL)	ACGIH TLV (Ceiling Limits)
Sodium Hydroxide	1310-73-2	<1		C 2 MG/m ³	2 mg/m ³

Components	CAS Number	Weight %	OSHA (TWA - 8hr)	OSHA (STEL)	OSHA (Ceiling Limits)
Sodium Hydroxide	1310-73-2	<1			2 mg/m ³

SARA (311, 312) hazard class:

Immediate health: None.
Delayed health: None.
Fire: None.
Sudden Release of Pressure Hazard: None.
Reactivity: None.

Components	CAS Number	Weight %	New Jersey RTK List:	Pennsylvania RTK List:	Massachusetts RTK List:	Connecticut Hazardous Material List:	Michigan Critical List:
Sodium Hydroxide	1310-73-2	<1	Substance no. 1706 Listed.	Listed.	Listed.	Listed.	

TSCA inventory list: Listed under TSCA: Yes

WHMIS:

WHMIS trade secret: None.
WHMIS hazard class: None.

Canada DSL inventory list: Listed on DSL: Yes

Notes:

1. SARA = Superfund Amendments and the Reauthorization Act.
2. CERCLA = Comprehensive Environmental Response, Compensation and Liability Act.
3. FIFRA = Federal Insecticide, Fungicide and Rodenticide Act.
4. TSCA = Toxic Substance Control Act.
5. WHMIS = Canadian Workplace Hazardous Materials Information System.
6. This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. OTHER INFORMATION

This data sheet contains changes from the previous version in section(s):
None.

Additional advice: None.

Literary reference: None.

MSDS format: North American Format - U.S. and Canada
This Material Safety Data Sheet was prepared in accordance with OSHA 29 CFR 1910.1200.

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End of Safety Data Sheet

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