

# MATERIAL SAFETY DATA SHEET

(COMPLIES WITH 29CFR 1910.1200)

## SECTION I - CHEMICAL PRODUCT & COMPANY IDENTIFICATION

**Identity (As Used on Label and List):** Beta-Spot  
**Product Class:** Water-based Iodine Spot Remover  
**Emergency Telephone Number:** 800-255-3924  
**Telephone Number for Information:** 651-481-1900  
**Manufacturer's Name and Address:**  
Multi-Clean®  
600 Cardigan Road  
Shoreview, MN 55126

## SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS

| Hazardous Components (Specific Chemical Identity): |  |          |
|--|--|----------|
| Chemical   | Common Name(s)                         | %        |
| A  | Sodium Metabisulfite<br>CAS #7681-57-4 | 3 - 8    |
| B  | Sodium Sulfite<br>CAS #7757-83-7       | 1 - 5    |
| C  | Sodium Carbonate<br>CAS #497-19-8      | 1 - 5    |
| D  | Water<br>CAS #7732-18-5                | 80 - 100 |

## SECTION III - HAZARDS IDENTIFICATION

**Emergency Overview**  
**Appearance and Odor:** Clear, mild odor  
**Primary Hazards:** Irritant

**Potential Health Hazards**  
**Route(s) of Entry:** Skin Absorption: Ingestion: X Inhalation: X  
**Eye:** May cause irritation on contact.  
**Skin:** May cause irritation on contact.  
**Ingestion:** May be harmful if swallowed.  
**Inhalation:** Contact with acids can release sulfur dioxide gas which may be harmful or deadly if inhaled. May cause severe or deadly allergic reactions in some asthmatics and sulfite sensitive individuals.  
**Signs and Symptoms of Exposure:** Irritation on direct contact.  
**Carcinogenicity:** NTP? No IARC Monographs? No  
**OSHA Regulated?** No  
**Target Organ (s):** Skin, eyes, respiratory system. Gross overexposure to vapors may affect central nervous system.  
**Medical Conditions Generally Aggravated by Exposure:** Asthma or Individuals sensitive to Sulfites.  
**Health Hazards, Chronic:** N/A

## SECTION IV - FIRST AID MEASURES

**Emergency and First Aid Procedures:**  
**If Swallowed:** If person can swallow, give several glasses of water. Induce vomiting. Get immediate medical attention. **Eye Contact:** Flush eyes with running water for at least 15 minutes. If irritation persists, obtain medical attention. **Skin Contact:** Flush thoroughly with cool water. Remove and wash contaminated clothing before reuse. **Inhalation:** Remove to fresh air. If irritation persists, get medical attention.  
**Sources Used:** Raw material data, general toxicology from the trade for similar products.

## SECTION V - FIRE FIGHTING MEASURES

**Flammability:** No **Autoignition Temperature:** N. Ap.  
**Flash Point (method used):** None  
**Flammable Limits:** N. Ap. LEL UEL  
**Extinguishing Media:** N. Ap.  
**Water?** **Foam?** **Water Fog?**  
**Alcohol Foam?** **CO2?** **Dry Chemical?**  
**Vaporizing Liquid?** **Other?**  
**Special Fire Fighting Procedures:** N. Ap.  
**Unusual Fire and Explosion Hazards:** N. Av.  
**TDG Flammability Classification:** Non-flammable  
**Sensitivity to Mechanical Impact:** None  
**Sensitivity to Static Discharge:** None

## SECTION VI - ACCIDENTAL RELEASE MEASURES

**Steps to be Taken in Case Material is Released or Spilled:**  
Dike and contain spill with inert material (sand, earth, etc). Collect spill with mop, absorbent material (example: floor-dri) or vacuum. Thoroughly rinse affected area with water.

## SECTION VII - HANDLING AND STORAGE

**Precautions to be Taken in Handling and Storing:**  
Normal care in handling and storage.  
**Other Precautions:** Keep out of reach of children. Keep from freezing.

## SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

**Respiratory Protection (Specify Types):** Not required  
**Ventilation:** **Local Exhaust:** Not required **Special:** Not required  
**Mechanical (General):** Ventilate to keep vapor levels below TLV & PEL, listed in Section XI.  
**Other:** Do not use in confined spaces.  
**Protective Gloves:** Natural rubber or synthetic.  
**Eye Protection:** Approved safety goggles or glasses. **Footwear:** Not required  
**Other Protective Clothing or Equipment:** Not required  
**Work/Hygienic Practices:** Do not contaminate food or beverages with cleaning chemicals.

## SECTION IX - PHYSICAL/CHEMICAL CHARACTERISTICS

**Boiling Point:** Approximately 212°F (100°C) **pH:** 6-8  
**Specific Gravity (H2O) = 1:** 1.12 **% Volatile:** > 80  
**Vapor Density (Air = 1):** N. Av. **Odor Threshold:** N. Av.  
**Evaporation Rate (Butyl Acetate = 1):** N. Av. **Oil/Water Distribution**  
**Solubility in Water:** Complete **Coefficient:** N. Av.  
**Vapor Pressure (MM HG):** N. Av.  
**Melting Point:** N. Ap.

## SECTION X - STABILITY AND REACTIVITY

**Stability:** **Unstable:** **Stable:** X  
**Conditions to Avoid:** Avoid elevated temperatures. Temps over 150C causes the rapid evolution of toxic and corrosive gas (sulfur dioxide).  
**Incompatibility (materials to avoid):** Oxidizers may cause strong exothermic reactions. Acids can release sulfur dioxide gas, which is toxic, corrosive, and potentially deadly.  
**Hazardous Decomposition or By-products:** Sulfur Dioxide  
**Hazardous Polymerization:** **May occur:** **Will not occur:** X  
**Conditions to Avoid:** N. Ap.

## SECTION XI - TOXICOLOGICAL INFORMATION

| Chemical | OSHA PEL | ACGIH TLV | Recom. | LD50                        | LC50                   |
|----------|----------|-----------|--------|-----------------------------|------------------------|
| A        | N. Av.   | N. Av.    | N. Av. | N. Av.                      | N. Av.                 |
| B        | None     | None      | N. Av. | 820 mg/kg.<br>(mouse, oral) | N. Av.                 |
| C        | N. Av.   | N. Av.    | N. Av. | 4090 mg/kg<br>(rat, oral)   | 2300 mg/m3<br>(2 hour) |
| D        | None     | None      | N. Av. | N. Av.                      | N. Av.                 |

**Teratogen, Mutagen, Reproductive Toxin Status:** N. Av.  
**Toxicologically Synergistic Products:** N. Av.

## SECTION XII - ECOLOGICAL INFORMATION

**Ecotoxicological Information:** N. Av.  
**Chemical Fate Information:** N. Av.

## SECTION XIII - DISPOSAL CONSIDERATIONS

**Waste Disposal Method:**  
Dispose of spilled material in accordance with local, state and federal regulations. Waste from normal cleaning procedures may be sewerred, depending on the materials and/or contaminants being cleaned as well as state, federal and local sewer commission regulations.  
**RCRA Hazard Class:** None

## SECTION XIV - TRANSPORT INFORMATION

**Shipping Classification:** Compound, cleaning liquid, N.O.I.  
**UN Number:** N. Ap.  
**Packing Group:** N. Ap.

## SECTION XV - PREPARATION DATA

**Prepared By:** Mike Elms  
**Telephone Number:** 651-481-1900  
**Date:** 4/08

## SECTION XVI - REGULATORY INFORMATION

**US Federal Regulations**  
**TSCA Status:** All ingredients listed.  
**CERCLA Reportable Quality:** None  
**SARA Title III**  
**Section 302 Extremely Hazardous Chemicals:** None  
**Section 311/312 Hazard Category:** Immediate health.  
**Section 313 Toxic Chemicals:** Sodium Metabisulfite.  
**State Regulations**  
**International Regulations**  
**WHMIS Controlled Product Hazard Class:** D2B

## SECTION XVII - OTHER INFORMATION

None

N. Ap. - Not Applicable; N. Av. - Not Available

## NFPA SYSTEM

2 A. Health Hazard 0 A. Fire Hazard 1 A. Reactivity Hazard

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