

# SAFETY DATA SHEET Precision Testing Set

## 1. PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product identifiers

Product name: Precision Testing Set

Product Number: TM-44337

Brand: Mercedes Medical Inc. Tel.: 800-331-2716 FAX:800-359-8807  
Sarasota, Fl 34243

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Aqueous solution of potassium dichromate for laboratory use only.

### 1.3 Details of the supplier of the safety data sheet

Company: Mercedes Medical Inc.,

Sarasota, Fl 34243

Telephone : 800-331-2716

Fax : 800-359-8807

## 2. HAZARDS IDENTIFICATION

### Classification of the substance or mixture

Oxidizing solution. Harmful to eyes and skin. Toxic if swallowed.

### WARNING!

Highly toxic by ingestion and known carcinogen. Strong oxidizing agent and body tissue irritant.

Target organs: Kidneys, liver, blood.

This material is considered hazardous by the OSHA

Hazard Communication Standard (29 CFR 1910.1200).

HMIS 0-4	
Health	3
Fire Hazard	0
Reactivity	2

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Dilute aqueous solution (less than 3%) of potassium dichromate (CAS-No.: 7778-50-9).

## 4. FIRST AID MEASURES

### Description of first aid measures

#### In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

#### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## 5. FIREFIGHTING MEASURES

Noncombustible solution. Oxidizing agent. When heated to decomposition, emits acrid fumes.

**Protective equipment and precautions for firefighters:** Use foam or dry chemical to extinguish fire. Firefighters should wear full fire fighting turn-outgear and respiratory protection (SCBA). Cool container with water spray. Material is not sensitive to mechanical impact or static discharge.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing vapors. Ensure adequate ventilation. Evacuate personnel to safe areas.

**6.2 Environmental precautions.:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**6.3 Methods and materials for containment and cleaning up**

Sweep up. Contain spillage, and then collect by wet brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

**7. HANDLING AND STORAGE****7.1 Precautions for safe handling**

Avoid contact with skin and eyes.

**7.2 Conditions for safe storage, including any incompatibilities**

Keep container tightly closed in a dry and well-ventilated place.

**7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Control parameters**

Use ventilation to keep airborne concentrations below exposure limits. Have approved eyewash facility, safety shower, and fire extinguishers readily available. Wear chemical splash goggles and chemical resistant clothing such as gloves and aprons. Wash hands thoroughly after handling material and before eating or drinking. Exposure guidelines: Chromium compounds: OSHA PEL: 0.001 mg/m<sup>3</sup>, ACGIH: TLV: 0.01 mg/m<sup>3</sup>, STEL: 0.1 mg/m<sup>3</sup>

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Molecular formula	K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub>	Appearance	Clear yellow liquid
Molecular weight	294.19	Odor	No odor
Specific Gravity	1.01 g/mL @ 20°C	Odor threshold	N/A
Vapor density	N/A	Solubility	Soluble in water
Melting point	N/A	Evaporation rate	N/A
Boiling point/range	N/A	Partition coefficient	N/A
Vapor pressure (20°C)	N/A	pH	N/A
Flash point	N/A	LEL	N/A
Autoignition Temp.	N/A	UEL	N/A
		N/A = Not available or applicable	

**10. STABILITY AND REACTIVITY****10.1 Reactivity**

No data available

**10.2 Chemical stability**

Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions**

No data available

**10.4 Conditions to avoid**

No data available

**10.5 Incompatible materials**

Organic materials, Do not store near acids. Powdered metals, Hydrazine

**10.6 Hazardous decomposition products.** Other decomposition products - No data available

In the event of fire: see section 5

**11. TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects of potassium dichromate.****Acute toxicity**

LD50 Oral - Rat - male - 168 mg/kg

LD50 Oral - Rat - female - 90.5 mg/kg

LC50 Inhalation - Rat - female - 4 h - 0.088 mg/l

LD50 Dermal - Rabbit - 14 mg/kg

**Acute Symptoms/Signs of exposure:**

Eyes: Redness, tearing, itching, burning, conjunctivitis.

Skin: Redness, itching.

Ingestion: Irritation and burning sensations of mouth and throat, nausea, vomiting and abdominal pain.

Inhalation: Irritation of mucous membranes, coughing, wheezing, shortness of breath,

Chronic Effects: Carcinogen, IARC group 1; ACGIH A1, NTP Known

Sensitization: none expected

## 12. ECOLOGICAL INFORMATION:

Ecotoxicity (aquatic and terrestrial): Contains a heavy metal – Toxic to terrestrial and aquatic plants and animals. Do not release to the environment

## 13. DISPOSAL CONSIDERATIONS:

Check with all applicable local, regional, and national laws and regulations. Local regulations may be more stringent than regional or national regulations. Use a licensed chemical waste disposal firm for proper disposal.

## 14. TRANSPORT INFORMATION:

DOT Shipping Name	Not Regulated by DOT	Canada TDG	Not Regulated by TDG
DOT Hazard Class		Hazard Class	
Identification Number		UN Number	

## 15. REGULATORY INFORMATION:

EINECS	Listed (132-906-6)	California proposition 65	Listed carcinogen
TSCA	All components are listed or are exempt		

The product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

## 16. OTHER INFORMATION:

Disclaimer: Mercedes Medical Inc., believes that the information herein is factual but is not intended to be all inclusive. The information relates only to the specific material designated and does not relate to its use in combination with other materials or its use as to any particular process. Because safety standards and regulations are subject to change and because Mercedes Medical Inc., has no continuing control over the material, those handling, storing or using the material should satisfy themselves that they have current information regarding the particular way the material is handled, stored or used and that the same is done in accordance with federal, state and local law. Mercedes Medical Inc., makes no warranty, expressed or implied, including (without limitation) warranties with respect to the completeness or continuing accuracy of the information contained herein or with respect to fitness for any particular use.

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