



KEY SCIENTIFIC PRODUCTS  
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STAMFORD, TEXAS 79553  
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## Safety Data sheet

### 1 Identification

#### GHS Product Identifier

<b>Catalog Number</b>	<b>Product Name: Multiple</b>
K520	Ent Oxidase Test Strips
K710520	Microoxidase Strips
K980520	Dropit Ent Oxidase

#### Other means of identification

K520	Ent Oxidase Test Strips
K710520	Microoxidase Strips
K980520	Dropit Ent Oxidase

Wursters's reagent

#### Recommended use of the chemical and restriction on use

For invitro diagnostic use only by trained professionals.

#### Supplier's details

##### Manufacturer / Supplier:

Key Scientific Products, Inc.  
1113 East Reynolds Street  
Stamford, TX 79553

Phone Number: 1-800-843-1539  
Emergency Phone Number: none available.

### 2 Hazard(s) identification

#### Classification of the substance or mixture

Skin irritation (Category 2), H315  
Eye irritation (Category 2A), H319  
Flammable liquids, (Category 4), H227

#### GHS label elements

Warning



Combustible dust

Causes skin irritation

Causes serious eye irritation

Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

Wash skin thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

IF ON SKIN: Wash with plenty of soap and water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If skin irritation occurs: Get medical advice/attention.



IF eye irritation persists: Get medical advice/attention.

Take off contaminated clothing and wash before reuse.

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Store in a well-ventilated place. Keep container tightly closed.

Dispose of contents/container to an approved waste disposal plant.

#### **Other hazards which do not result in classification**

Combustible dust

Rapidly absorbed through skin

### **3 Composition/information on ingredients**

Description	CAS Number	EINECS Number	%	Note
Tetramethyl-p-phenylenediamine dihydrochloride	637-01-4	211-274-8	0.001 - 0.003	
Dimethyl sulfoxide	67-68-5	200-664-3	0.001 - 0.03	

### **4 First-aid measures**

#### **Description of necessary first-aid measures**

##### **General advise**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**Eyes:** In case of contact with eyes, rinse immediately with water for 10-15 minutes and consult physician.

**Ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**Inhalation:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**Skin:** Take off contaminated clothing immediately. Wash thoroughly with soap and plenty of water. Consult a physician.

#### **Most important symptoms/effects, acute and delayed**

Most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

#### **Indication of immediate medical attention and special treatment needed, if necessary**

No data available.

### **5 Fire-fighting measures**

#### **Suitable extinguishing media**

Use waterspray, CO<sub>2</sub>, foam, or dry powder as the extinguisher medium.

#### **Specific hazards arising from the chemical**

Carbon oxides, nitrogen oxides, Sulfur oxides, Hydrogen chloride gas.

#### **Special protective actions for fire-fighters**

Wear self-contained breathing apparatus if needed.

### **6 Accidental release measures**



## Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist, dust, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

## 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.

## Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste.

## 7 Handling and storage

### Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid inhalation of vapor or mist. Provide adequate ventilation at places where dust is formed. Normal measures for fire protection. For precautions see section 2.2.

### Conditions for safe storage, including any incompatibilities

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

## 8 Exposure controls/personal protection

### Control parameters

#### Components with workplace control parameters

Component	CAS#	Value	Control parameters	Basis
Dimethyl sulphoxide	67-68-5	TWA	250 ppm	USA.Workplace Environmental Exposure (WEELS)

### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practices. Change contaminated clothing. Wash hands before breaks and at the end of workday.

### Individual protection measures

#### Eye/face protection

Tightly fitting safety glasses with side shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or en 166 (EU).

#### Skin protection

Handle with gloves. Gloves must be inspected before use. Use proper glove removal technique (without touching gloves's outer surface) to avoid skin contact with product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Body protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-space.

#### Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type P95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (UN).

### Control of environmental exposure

Do not let product enter drains.

## 9 Physical and chemical properties

### Physical and chemical properties

<b>Appearance:</b>	<b>Form:</b> liquid
	<b>Color:</b> clear
<b>Odor:</b>	odorless
<b>Odor Threshold:</b>	No data available
<b>pH:</b>	No data available
<b>Melting point/freezing point:</b>	Melting point/range: 16-19 °C (61-66 °F)
<b>Melting point:</b>	No data available
<b>Flash Point:</b>	No data available
<b>Evaporation rate:</b>	No data available
<b>Flammability:</b>	No data available
<b>Upper/lower flammability/explosion limits:</b>	No data available
<b>Vapor Pressure:</b>	No data available
<b>Vapor density:</b>	No data available
<b>Relative density:</b>	No data available
<b>Water solubility:</b>	No data available
<b>Partition coefficient (n-octal/water):</b>	No data available
<b>Auto-ignition temperature:</b>	No data available
<b>Decomposition temperature:</b>	No data available
<b>Viscosity:</b>	No data available
<b>Explosive Properties:</b>	No data available

## 10 Stability and reactivity

### Reactivity

No data available.

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

No data available.

### Conditions to avoid

No data available.

### Incompatible materials

Strong oxidizing agents, Strong bases.

### Hazardous decomposition products

Other decomposition products-No data available.

In the event of a fire, see Section 5.

## 11 Toxicological information

### Toxicological (health) effects

#### Acute toxicity:

Inhalation: LC0 Inhalation - RAT - male and female - 4 h - > 5.33 mg/l



(OECD Test Guideline 401)

Dermal: LD50 Dermal - Rat - male and female - 40,000 mg/kg  
Remarks: (ECHA)  
No data available.

Oral: LD50 Oral - Rat - male and female - 28,300 mg/kg  
(OECD Test Guideline 401)

**Skin corrosion/irritation**

Causes slight skin irritation. Harmful if absorbed through the skin.

**Serious eye damage/eye irritation**

Causes slight eye irritation.

**Respiratory or skin sensitisation**

Harmful if ingested or inhaled. Causes irritation to respiratory system .

**Germ cell mutagenicity**

Negative

**Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by OSHA.

**Reproductive toxicity**

No data available.

**Specific organ toxicity - single exposure**

Inhalation-May cause respiratory irritation.

**Specific organ toxicity - repeated exposure**

No data available.

**Additional information**

RTECS: MW4025000

Inhalation of vapors may cause: Burning sensation, Cough, Wheezing, Shortness of breath, Spasm, Inflammation and edema of the larynx, Pneumonitis, Pulmonary edema (Hydrochloric acid). To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## 12 Ecological information

### Toxicity

Toxicity to fish	LC50-Danio rerio (Zebra fish)- > 25000 mg/l -96 h (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	static test ErC50 - Daphnia magna (Water flea)-24600 mg/l -48 h (OECD Test Guideline 202)
Toxicity to bacteria	EC50 - activated cludge - 10 - 100mg/l - 30 min (ISO 8192)

### Persistence and degradability

No data available.

### Bioaccumulative potential

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

### Mobility in soil

No data available.

### Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Toxic to aquatic life.

## 13 Disposal considerations

### Disposal methods

#### Product

Uninoculated items may be discarded as normal waste.  
Inoculated waste should be discarded in a manner appropriate for biological hazards.

#### Contaminated Packaging

Dispose of as unused product.

## 14 Transport information

### UN Number

#### DOT (US)

Not dangerous goods.

#### IMDG

Not dangerous goods.

#### IATA

Not dangerous goods.



## 15 Regulatory information

### Safety, health and environmental regulations specific for the product in question

#### SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimus) reporting levels established by SARA Title III, Section 313.

#### SARA 311/312 Hazards

Acute health hazard.

#### Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

#### Pennsylvania Right To Know Components

	CAS#	Revision Date
N,N,N,N-Tetramethyl-p-phenylenediamine	637-01-4	
4-Dimethylaminocinnamaldehyde		
dimethyl sulfoxide	CAS# 67-68-5	Revision Date 2007-03-01

#### New Jersey Right To Know Components

	CAS#	Revision Date
dimethyl sulfoxide	67-68-5	2007-03-01
5		

#### California Prop. 65 Components

These products do not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## 16 Other information

### Other information

The above information, to the best of our knowledge, is accurate. Key Scientific Products assumes no liability whatsoever for the accuracy or completeness of the information stated above. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards may be described, we cannot guarantee that these are the only hazards that exist.