SAFETY DATA SHEETS

This SDS packet was issued with item:

078777157

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

078389450 078389476

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

078389401 078389492

MSDS for Wrights #3
Catalog # 303

Medical chemical Corp.
19430 Van Ness Ave.
Torrance, CA 90501

Customer Service: Phone (310)787-6800
FAX (310)787-4464

CHEMTREC Emergency Response Telephone Number: (800)424-9300
Note: The CHEMTREC phone number is only for emergencies involving spills, leaks, fire, exposure or accident. Please direct all other inquiries to our customer service phone number.

Section 1 - Product Identification

A aqueous solution of dyes, methanol, dimethyl sulfoxide and buffer salts.

Section II - Composition/Information on Components

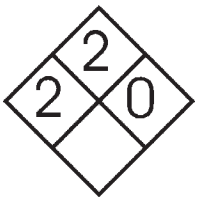
Ingredients	*CAS#*	*OSHA Pel*	*ACGIH TLV*	*Other Limits*	*%*
methyl alcohol	67-56-1	200 ppm (TWA)	200 ppm (TWA)		7.5% v/v
methyl sulfoxide	67-68-5	no standard set	————		10% v/v

Section III - Hazards Identification

Overview: Toxic by inhalation absorption or ingestion. Can not be made nontoxic. Methanol is a cumulative poison and death has been reported for ingestion of less than 30 milliliters. Causes CNS depression, headache, intoxication, dilation of the pupils, convulsions nausea, and dizziness. Unconsciousness and death may result. Methanol intoxication may produce visual disturbances and blindness. The toxicity of methanol may be enhanced by the presence of DMSO.

Safety Ratings

Health: Hazardous *Flammability*: Slight *Reactivity*: Slight *Contact:* Slight
Recommended safety equipment: safety goggles, lab coat and proper gloves
Storage: Room Temperature away from sources of ignition.



NFPA Ratings

Health = 2 Flammability = 2 Reactivity = 1

Potential Health Effects

The toxicology of this compound have not been completely examined. It is presumed that the toxicity of this item is similar to other aliphatic alcohols.

Inhalation: Alcohols are absorbed through the mucous membranes and will produce irritation as well as the same effects as ingestion.

Ingestion: Inhalation will produce CNS disturbance, dizziness, photophobia, headache, stupor, coma and death.

Skin contact: Alcohols are absorbed through the skin. Repeated contact causes defatting of the skin with resultant irritation and flaking.

Eye contact: May be irritating

Chronic Exposure: Unknown

Aggravation of preexisting conditions: Impaired kidney and liver function may be aggravated by exposure to alcohols. Preexisting eye, skin, and respiratory conditions may also be aggravated. Methanol has shown genetic toxicity in some animals.

Section IV - First Aid Measures

Inhalation: Remove from source of exposure and get medical attention for any breathing difficulty.

Ingestion: Do not induce vomiting if patient is unconscious or extremely drowsy. Otherwise administer 2 glasses of water and induce vomiting. Get immediate medical attention even if symptoms improve.

Skin Contact: In case of skin contact, remove contaminated clothing and flush with water. Wash affected area with soap and water. Get medical advice if irritation develops.

Eye Contact: In case of eye contact, flush with water for at least 15 minutes and get medical attention.

Section V - Fire Fighting Measures

Flash point: Not applicable.

Flammable Limits: Not applicable.

Explosion: Not Normally an explosion hazard.

Fire Extinguishing Media: Alcohol type foam, carbon dioxide or dry chemical. Water is ineffective against alcohol fires but may be used to cool adjacent containers.

Special information: Pyrolysis will release toxic oxides such as carbon monoxide.

Section VI - Accidental Release Measures

Remove all sources of ignition, absorb with a suitable absorbent (such as paper towels) and dispose.

Section VII - Handling and Storage

Store in a closed container, away from open flames or other sources of ignition.

Section VIII - Exposure Control/Personal Protection

Airborne Exposure Limits: See section II

Ventilation System: Usually not required. When required, Refer to the ACGIH document, “Industrial Ventilation, a Manual of Recommended Practices” for details about ventilation.

Personal Respirator: Usually not required. In case of emergency, or when exposure levels are unknown, use a positive pressure, full face piece, air supplied respirator.

Skin protection: Protective gloves are not required but recommended as part of good laboratory practice.

Eye Protection: Laboratory safety goggles or similar products are not required but recommended as part of good laboratory practice.

Section IX - Physical and Chemical Properties

Boiling Point: 91°C (196°F)
Density: 1.01 g/ml
Vapor pressure (mm Hg): 18 @ 19°C
Evaporation Rate (Ethanol = 1): 1
Vapor Density (air = 1): 0.6
Solubility: Infinitely miscible with water
Appearance and Odor: A clear red liquid with the characteristic odor of dimethyl sulfoxide.

Section X - Stability and Reactivity

Stability: Freezes at very low temperature.

Hazardous Decomposition Products: Nothing unusual.

Hazardous polymerization: Will not occur.

Incompatibilities: Oxidixers.

Conditions to avoid: heat, flame and sources of ignition.

Section XI - Toxicological Information

Cancer lists

Ingredient	*Known Carcinogenicity?*	*NTP?*	*Anticipated?*	*IARC Category*
Methanol	no	no	no	none
Dimethyl sulfoxide	no	no	no	none

Section XII - Ecological Information

Environmental Fate: Unknown
Environmental Toxicity: Unknown

Methanol evaporates quickly and is not expected to bioaccumulate. The material is removed from the air by dry and liquid adsorption. The half-life for methanol in the atmosphere is one to ten days.

Section XIII - Disposal

The preferred disposal method is incineration. Localities may restrict the amounts of alcohols that may be flushed down the drain. Insure compliance with all government regulations.

Section XIV - Transportation information

Not regulated.

Section XV - Regulatory Information

Chemical Inventory Status

Ingredient	TSCA	EC
Methanol	Yes	Yes
Dimethyl sulfoxide	Yes	Yes

Federal, State and International Regulations

	SARA 302		SARA 313		RCRA	TSCA
Ingredient	RQ	TPQ	List	Category	261.33	8(D)
Methanol	No	No	Yes	No	U154	No
Dimethyl sulfoxide	No	No	No	No	No	No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: Yes

SARA 311/312: Acute: Yes, Chronic: Yes

Section XVI - Other Information

This information is believed to be correct but is not waranteed as such, nor does it purport to be all inclusive.

Prepared by: P. B. Revision Date: Feb. 13, 2006

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Section I - Product Identification

A aqueous solution of dyes, methanol, dimethyl sulfoxide and buffer salts.

Section II - Hazards Identification

Warning: Flammable liquid and vapor. Keep away from heat, sparks, open flames and hot surfaces. Keep container tightly closed. Use only non-sparking tools. Take precautions against static discharge. Wear protective clothes and eye protection. In case of skin contact immediately remove all contaminated clothing. Rinse with water or shower. In case of fire, use fire extinguishers approved for alcohol fires.

Safety Ratings

Health: Hazardous *Flammability*: Highly flammable liquid and vapor *Reactivity*: None *Contact:* Slight
Recommended safety equipment: safety goggles, lab coat and proper gloves
Storage: Keep cool, away from sources of ignition in a well ventilated area.

NFPA Ratings
Health = 2 Flammability = 2 Reactivity = 0

Potential Health Effects

The toxicology of this compound have not been completely examined. It is presumed that the toxicity of this item is similar to other aliphatic alcohols.

Inhalation: Alcohols are absorbed through the mucous membranes and will produce irritation as well as the same effects as ingestion.

Ingestion: Inhalation will produce CNS disturbance, dizziness, photophobia, headache, stupor, coma and death.

Skin contact: Alcohols are absorbed through the skin. Repeated contact causes defatting of the skin with resultant irritation and flaking.

Eye contact: May be irritating.

Chronic Exposure: Unknown.

Aggravation of preexisting conditions: Impaired kidney and liver function may be aggravated by exposure to alcohols. Preexisting eye, skin, and respiratory conditions may also be aggravated. Methanol has shown genetic toxicity in some animals.

Section III - Composition/Information on Components

Ingredients	*CAS#*	*OSHA Pel*	*ACGIH TLV*	*Other Limits*	*%*
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Inhalation: Remove from source of exposure and get medical attention for any breathing difficulty.

Ingestion: Do not induce vomiting if patient is unconscious or extremely drowsy. Otherwise, administer 2 glasses of water and induce vomiting. Get immediate medical attention even if symptoms improve.

Skin Contact: In case of skin contact, remove contaminated clothing and flush with water. Wash affected area with soap and water. Get medical advice if irritation develops.

Eye Contact: In case of eye contact, flush with water for at least 15 minutes and get medical attention.

Section V - Fire Fighting Measures

Flash point: 54 °C (129 °F)

Flammable Limits: LEL: 6.0, UEL: 36.5

Explosion: Not Normally an explosion hazard.

Fire Extinguishing Media: Alcohol type foam, carbon dioxide or dry chemical. Water is ineffective against alcohol fires but may be used to cool adjacent containers.

Special information: Pyrolysis will release toxic oxides such as carbon monoxide.

Section VI - Accidental Release Measures

Remove all sources of ignition, absorb with a suitable absorbent (such as paper towels) and dispose.

Section VII - Handling and Storage

Store in a cool, well ventilated place. Store in a closed container, away from open flames or other sources of ignition.

Section VIII - Exposure Control/Personal Protection

Airborne Exposure Limits: See section III.

Ventilation System: Usually not required. When required, Refer to the ACGIH document, “Industrial Ventilation, a Manual of Recommended Practices” for details about ventilation.

Personal Respirator: Usually not required. In case of emergency, or when exposure levels are unknown, use a positive pressure, full face piece, air supplied respirator.

Skin protection: Protective gloves are not required but recommended as part of good laboratory practice.

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Dimethyl sulfoxide	no	no	no	none

Section XII - Ecological Information

Environmental Fate: Unknown
Environmental Toxicity: Unknown

Methanol evaporates quickly and is not expected to bioaccumulate. The material is removed from the air by dry and liquid adsorption. The half-life for methanol in the atmosphere is one to ten days.

Section XIII - Disposal Considerations

The preferred disposal method is incineration. Localities often restrict the amounts of flammable liquids that may be flushed down the drain and require that the effluent coming out of the building is not flammable. Dispose of contents and container in accord with all applicable regulations.

Section XIV - Transportation Information

Not regulated.

Section XV - Regulatory Information

Chemical Inventory Status

Ingredient	TSCA	EC
Methanol	Yes	Yes
Dimethyl sulfoxide	Yes	Yes

Federal, State and International Regulations

	SARA 302		SARA 313		RCRA	TSCA	
Ingredient	RQ	TPQ	List	Category	261.33	8(D)	Ca. Prop 65
Methanol	No	No	Yes	No	U154	No	Yes
Dimethyl sulfoxide	No	No	No	No	No	No	No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: Yes

SARA 311/312: Acute: Yes, Chronic: Yes

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Revision Date: Feb. 26, 2018