

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name MIGHTY BLUE
Recommended Use Cleaning agent
Information on Manufacturer
 MANTEK, DIVISION OF NCH CORP.
 BOX 152170
 IRVING, TEXAS 75015

Product Code 0623
Chemical Nature Alcohol solution
Emergency Telephone Number
 CHEMTREC® 800-424-9300

2. HAZARDS IDENTIFICATION

Emergency Overview

Danger
 Flammable liquid and vapor
 Poison
 Causes skin irritation
 Severe eye irritation
 May be harmful if inhaled
 Harmful or fatal if swallowed
 May cause blindness
 Cannot be made non-poisonous

Color Light blue **Physical State** Liquid **Odor** Mild Alcohol

Potential Health Effects

Principle Route of Exposure

Skin contact, Eye contact, Inhalation.

Primary Routes of Entry

Inhalation, Ingestion, Skin Absorption.

Acute Effects

Eyes

Severe irritation.

Skin

Causes skin irritation. Substance may be absorbed through the skin which can contribute to damage to the optic nerve resulting in permanent vision changes, loss of vision, or total blindness.

Inhalation

May cause irritation of respiratory tract. Inhalation may cause central nervous system effects. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Inhalation of vapors in high concentration can cause narcotic effects and metabolic acidosis.

Ingestion

Irritating to mouth, throat, and stomach. May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination. Acidosis. May be fatal or cause blindness if swallowed.

Chronic Toxicity

Liver and kidney injuries may occur, Inhalation of vapors in high concentration can cause narcotic effects and metabolic acidosis, Repeated or prolonged exposure may cause central nervous system damage.

Target Organ Effects

Central nervous system, Gastrointestinal tract, Respiratory system, Eyes, Skin, Liver, Kidney, Blood, Heart.

Aggravated Medical Conditions

Respiratory disorders, Skin disorders, Liver disorders, Kidney disorders, Neurological disorders, Blood disorders, Heart disease.

Potential Environmental Effects

See Section 12 for additional Ecological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No
Methyl alcohol	67-56-1

4. FIRST AID MEASURES

General Advice Avoid contact with skin, eyes, and clothing. Avoid breathing vapors, mist, or gas.

Eye Contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention immediately.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention if irritation develops and persists. Wash contaminated clothing before re-use.

Inhalation If inhaled, remove to fresh air. Get medical attention if symptoms occur.

Ingestion Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.

Notes to Physician Ethanol solutions.

5. FIRE-FIGHTING MEASURES

Flash Point 65°F/18°C **Method** Seta closed cup

Autoignition Temperature No information available.

Flammability Limits in Air % Mixture. **Upper** 36 **Lower** 6

Suitable Extinguishing Media Water spray. Foam. Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific Hazards Arising from the Chemical

Solvent vapors are heavier than air and may spread along floors. Vapors may ignite and explode. Material can create slippery conditions.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA **Health** 1 **Flammability** 3 **Instability** 0

HMS **Health** 1 **Flammability** 3 **Instability** 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use personal protective equipment. Remove all sources of ignition. Ensure adequate ventilation. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.
Environmental Precautions	Do not flush into surface water or sanitary sewer system.
Methods for Containment	Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
Methods for Cleaning Up	Pick up and transfer to properly labeled containers.
Neutralizing Agent	Not applicable.

7. HANDLING AND STORAGE

Handling	Avoid contact with skin, eyes, and clothing. Avoid breathing vapors, mist or gas. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges.			
Storage	Keep away from open flames, hot surfaces and sources of ignition. Keep containers tightly closed in a dry, cool and well-ventilated place. Store in original container. Do not freeze.			
Storage Temperature	Minimum	0°F/-18°C	Maximum	120°F/49°C
Storage Conditions	Indoor	X	Outdoor	
			Heated	
				Refrigerated

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH
Methyl alcohol	Skin STEL: 250 ppm TWA: 200 ppm	TWA: 200 ppm TWA: 260 mg/m ³	IDLH: 6000 ppm TWA: 200 ppm TWA: 260 mg/m ³ STEL 250 ppm STEL 325 mg/m ³

Engineering Measures

Use with local exhaust ventilation. Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/Face Protection

Tightly fitting safety goggles.

Skin Protection

Wear suitable protective clothing, Impervious gloves.

Respiratory Protection

In case of inadequate ventilation wear respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

General Hygiene Considerations

Ensure that eyewash stations and safety showers are close to the workstation location. Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid	Viscosity	Non viscous
Color	Light blue	Odor	Mild Alcohol
Appearance	Transparent	pH	9
Specific Gravity	0.87	Evaporation Rate	2.95 (Butyl acetate=1)
Percent Volatile (Volume)	100	VOC Content (%)	60
VOC Content (g/l)	522	Vapor Pressure	62 mmHg @ 70 °F
Vapor Density	1 (Air = 1.0)	Solubility	Completely soluble
Boiling Point/Range	148°F/64°C		

10. STABILITY AND REACTIVITY

Chemical Stability	Stable. Hazardous polymerization does not occur.
Conditions to Avoid	Keep away from open flames, hot surfaces, and sources of ignition.
Incompatible Products	Strong oxidizing agents
Hazardous Decomposition Products	Carbon oxides, Formaldehyde.
Possibility of Hazardous Reactions	None under normal processing.

11. TOXICOLOGICAL INFORMATION

Product Information No information available.

Component Information

Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Methyl alcohol	5628 mg/kg (Rat)	15800 mg/kg (Rabbit)	83.2 mg/L (Rat) 4 h 64000 ppm (Rat) 4 h	no data available	no data available

Chronic Toxicity

None known

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Methyl alcohol	no data available	no data available	no data available	no data available	skin, eyes, CNS, GI tract, respiratory system

Carcinogenicity

Component	ACGIH	IARC	NTP	OSHA	Other
Methyl alcohol	not applicable	not applicable	not applicable	not applicable	not applicable

12. ECOLOGICAL INFORMATION

Product Information No information available.

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
Methyl alcohol	no data available	96 Hr LC50 Pimephales promelas: 28200 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas:>100 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss:19500-20700 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss:18-20 ml/L [static]; 96 Hr LC50 Lepomis macrochirus:13500-17600 mg/L [flow-through]	EC50 = 39000 mg/L 25 min EC50 = 40000 mg/L 15 min EC50 = 43000 mg/L 5 min	no data available	-0.77

Persistence and Degradability No information available.

Bioaccumulation No information available.

Mobility No information available.

13. DISPOSAL CONSIDERATIONS

Product Disposal Dispose of in accordance with local regulations.

Container Disposal Empty containers should be taken for local recycling, recovery or waste disposal.

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name Methanol Solution
Hazard Class 3
UN-No UN1230
Packing Group II
Description UN1230, Methanol Solution, 3, PG II

TDG

Proper shipping name Methanol Solution
Hazard Class 3
Subsidiary Hazard Class (6.1)
UN-No UN1230
Packing Group II
Description UN1230, METHANOL SOLUTION,3 (6.1),UN1230,PG II

ICAO

UN-No UN1230
Proper Shipping Name Methanol Solution
Hazard Class 3
Subsidiary Hazard Class 6.1
Packing Group II
Shipping Description UN1230, Methanol Solution, 3(6.1),PG II

IATA

UN-No UN1230
Proper Shipping Name Methanol Solution
Hazard Class 3
Subsidiary Hazard Class 6.1
Packing Group II
ERG Code 3P
Shipping Description UN1230,Methanol Solution, 3 (6.1),PG II

IMDG/IMO

Proper Shipping Name Methanol Solution
Hazard Class 3
Subsidiary Hazard Class 6.1
UN-No UN1230
Packing Group II
EmS No. F-E, S-D
Shipping Description UN1230, Methanol Solution, 3 (6.1),PG II

15. REGULATORY INFORMATION

Inventories

TSCA Complies

DSL Complies

U.S. Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40n of the Code of Federal Regulations, Part 372

Component	CAS-No	Weight %	SARA 313 - Threshold Values
Methyl alcohol	67-56-1	40-70	1.0

SARA 311/312 Hazardous Categorization

Acute Health Hazard Yes	Chronic Health Hazard Yes	Fire Hazard Yes	Sudden Release of Pressure Hazard No	Reactive Hazard No
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CERCLA

Component Methyl alcohol	Hazardous Substances RQs 5000 lb	CERCLA EHS RQs Not applicable
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Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

B2 Flammable liquid, D1B Toxic materials, D2A Very toxic materials, D2B Toxic materials.



16. OTHER INFORMATION

Prepared By	Kristen Stansbury
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Reason for Revision	No information available.
Glossary	No information available.
List of References.	No information available.

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