

DHMO.orgDihydrogen Monoxide
Research Division

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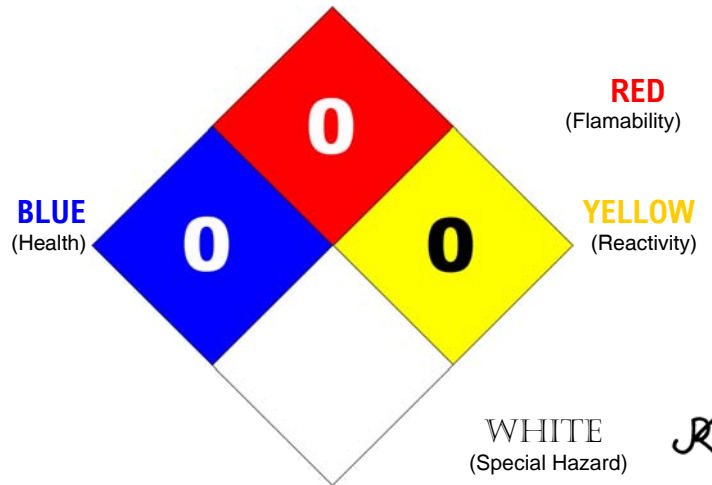
Replaces MSDS Dated:

MATERIAL SAFETY DATA SHEET

Manufacturer(s)

**GENERIC
(UBIQUITOUS)**

NFPA Designation 704

**EMERGENCY PHONE NUMBERS**911
or Your local Poison Control Center
CHEMTREC: 1 - 800 - 424-9300**Section I: PRODUCT IDENTIFICATION****Product Name: DIHYDROGEN MONOXIDE**

(Generic)

PRODUCT No. 7732-18-5

Synonyms: DHMO, Hydrogen Oxide, Hydroxylic Acid,
Hydrogen Hydroxide

Chemical Name: Dihydrogen Monoxide

Molecular Weight: 18.016

CAS No. 7732-18-5

Chemical Family: Liquid

Section II: INGREDIENTS - - HAZARD CLASSIFICATIONS

Principal Hazard. Component	CAS No.	Wt. %	Oral LD ₅₀	Dermal LD ₅₀	TLV (Units)		
					ACGIH	OSHA	Other
Dihydrogen Monoxide	7732-18-5	100	N/D	N/D	N/D	N/D	

NOTE: N/D - - Not Determined, Research on these values have not been reported.

Section III: PHYSICAL PROPERTIES

Boiling Temp. - °F	: 212 (373.16 °K) (100 °C)	Sp. Gr. (H ₂ O=1 @ 77 °F)	: 1.000
Melting Temp. - °F	: 32 (273.16 °K) (0 °C)	% Volatile (by Vol.)	: 100
Vapor Pressure (mm Hg) (@ 77 °F)	: 23.769 (3.2690 kPa)	Vapor Density (Air=1)	: < 1
Solubility in water	: Complete in all proportions	pH	: 7.00
Appearance	: Colorless Liquid	Odor	: None
Other: Molecular Weight --	18.016		

Section IV: FIRE AND EXPLOSION DATA

Flash Point °F (& Method Used)	: WILL NOT BURN	Flammable Limits	LeI °F	UeI °F
			N/A	N/A
Autoignition Temp. °F	: WILL NOT BURN			
Extinguishing Media	: N/A (not applicable)			
Special Fire Fighting Procedures	: N/A			
Unusual Fire and Explosion Hazards	: N/A			

Section V: HEALTH HAZARD INFORMATION

V 1: ROUTE OF ENTRY:

EYE	: Irritant in sensitive persons
Skin Contact	: May cause discomfort depending on temperature.
Skin Absorption :	: May cause temporary wrinkling of skin.
Inhalation	: Inhalation of liquid can be fatal.
Ingestion	: Ingestion of large quantities may result in excessive micturation.

V 2: EFFECTS OF OVEREXPOSURE:

<u>Acute Exposure</u> :	Inhalation of liquid can cause serious discomfort, possible tissue damage and is often fatal.
<u>Chronic Exposure</u> :	Not known to cause permanent effects other than excessive micturation due to large amounts being ingested..

V 3: PERMISSIBLE EXPOSURE LIMITS:

(See also above under "INGREDIENTS ----- HAZARD CLASSIFICATIONS".)

V 4: TOXICITY DATA

Eyes : May be an irritant to eyes.

V 4: TOXICITY DATA (Continued)

Skin : Has been known to cause temporary wrinkling of skin.

Other : Inhalation of liquid can cause serious discomfort, possible tissue damage and is often fatal.

V 5: EMERGENCY FIRST AID

EYES: In case of contact if irritation occurs, flush with normal saline solution. Seek medical attention if condition persists.

INGESTION: If swallowed, do not induce vomiting. The patient is the best judge of what help is needed.

INHALATION: In case of excessive respiratory exposure to liquid, remove to fresh air, apply artificial respiration and/or CPR if patient is not breathing spontaneously and/or has no detectible pulse.

SKIN: In case of contact, remove excess with soft absorbent material. Contaminated clothing should be removed and dried before reuse. Keep exposed persons warm if chilled.

Section VI: REACTIVITY DATA

STABILITY: Generally considered stable

CONDITIONS TO AVOID: All drying agents such as Sulfuric acid, most concentrated (dry) active chemicals such as caustic soda and active metals such as Sodium or Potassium.

INCOMPATIBILITY: May cause corrosion of ferrous alloys. Avoid contact with all electrical equipment.

HAZARDOUS DECOMPOSITION PRODUCTS: Does not decompose.

HAZARDOUS POLYMERIZATION: Will not occur except at low temperatures. This material expands on freezing and should never be stored on rigid containers near, at or below the freezing temperature of 273.16 Kelvins.

Section VII: SPILL MANAGEMENT

Reportable Quantities (in lb.) for Title III: Not Regulated

Steps to Be taken in case of a spill or release: Contain release as much as possible. Divert to proper disposal areas whenever possible.

Waste Disposal Method: Dispose in accordance with all local, State and Federal regulations. Special conditions may be imposed by local utilities.

Section VIII: HANDLING AND STORAGE

Depending on circumstances and possible dissolved or suspended contaminants it may be advisable to wash thoroughly after handling. Do not get in eyes, on skin or clothing.

Do not breathe liquid. Keep container closed when not in use. Minimizing contact with this and all chemicals is recommended as a good general policy to follow.

Store in a cool to cold place. Re-close containers when not in use. Avoid Freezing except in specially designed containers.

Section IX: SHIPPING INFORMATION

D. O. T. : Hazard Class: NOT REGULATED
Proper Shipping Name: Chemical Liquid N.O.S. [Chemical Solid N.O.S. – if shipped frozen]
UN No.: NOT REGULATED

IATA: Hazard Class: NOT REGULATED
Proper Shipping Name: Chemical Liquid N.O.S. [Chemical Solid N.O.S. – if shipped frozen]
Hazardous Article No.: NOT REGULATED
UN No.: NOT REGULATED

IMCO: Hazard Class: NOT REGULATED
Proper Shipping Name: Chemical Liquid N.O.S. [Chemical Solid N.O.S. – if shipped frozen]
Page No.: NOT REGULATED
IMCO CLASS i.e. (8.1): NOT REGULATED
UN No.: NOT REGULATED

Section X: SPECIAL PROTECTION INFORMATION

VENTILATION REQUIREMENTS:

LOCAL EXHAUST: Maintain ventilation sufficient to reduce the level of hazardous ingredient(s) below the stated concentration level(s). (See Section II Above)

PERSONAL PROTECTIVE EQUIPMENT:

EYES: Wear Safety glasses or goggles. Air tight goggles may be needed in some circumstances. Contact lenses should NEVER be worn when working with this or any chemical.

HANDS: Depending on circumstances and possible dissolved or suspended contaminants, wear gloves, non-permeable to product. Gloves are recommended where prolonged or repeated exposure is anticipated to avoid reported wrinkling of skin.

RESPIRATORY: Do not inhale liquid or high temperature vapors.

OTHER PROTECTIVE EQUIPMENT: Apron or full chemical resistant suit.

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