

# Jemmo, LLC

10936 North Port Washington Road  
Mequon, WI 53092-5031  
Phone 262-512-9559 Fax 262-242-0432

## Section 1 - Chemical Product and Company Identification

**Product/Chemical Name:** WETTING TENSION DYNE SOLUTIONS KIT, DYNE TEST PENS

**Chemical Formula:** CHEMICAL MIXTURE

**CAS Number:** N/A

**Other Designations:** N/A

**General Use:** TESTING SOLUTIONS

HMIS	
H	2
F	0
R	0
PPE†	
†Sec. 8	

## ☆☆☆☆ Emergency Overview ☆☆☆☆

## Section 2 - Composition / Information on Ingredients

Ingredient Name	CAS Number	% wt or % vol.
FORMAMIDE	75-12-7	VARIES
GLYCOL MONOETHYL ETHER	110-80-5	VARIES

### Trace Impurities:

Ingredient	OSHA PEL		ACGIH TLV		NIOSH REL		NIOSH IDLH
	TWA	STEL	TWA	STEL	TWA	STEL	
FORMAMIDE	None Estab.	None Estab.	10ppm	None Estab.	10 ppm	None Estab.	None Estab.
*GLYCOL MONOETHYL ETHER	200 ppm	None Estab.	5 ppm	None Estab.	0.5 ppm	None Estab.	500 ppm

**Toxicity Data:** \* This chemical subject to SARA Section 313 reporting requirements

## Section 3 - Physical and Chemical Properties

**Physical State:** Liquid

**Appearance and Odor:** Dark blue liquid with solvent odor.

**Odor Threshold:** N/A

**Vapor Pressure:** 0.8 – 4 mmHg @ 20 deg. C

**Vapor Density (Air=1):** 3.1

**Formula Weight:** N/A

**Density:** N/A

**Specific Gravity (H<sub>2</sub>O=1, at 4 °C):** 0.93-1.13

**pH:** N/A

**Water Solubility:** 5% to 100%

**Other Solubilities:** Other Solvents

**Boiling Point:** 111 to 135.6 deg C

**Freezing/Melting Point:** N/A

**Viscosity:** N/A

**Refractive Index:** N/A

**Surface Tension:** N/A

**% Volatile:** 100%

**Evaporation Rate:** Butyl Acetate= 1, 0.41

**Note;** Range is due to different mixes of products used

## Section 4 - Fire-Fighting Measures

**Flash Point:** 108 deg F to 175 deg F

**Flash Point Method:** Closed Cup

**Burning Rate:** N/A

**Autoignition Temperature:** N/A

**LEL:** 1.7 % by volume

**UEL:** 19 % by volume

**Flammability Classification:** Not a DOT Hazardous Material, Not classified.

**Extinguishing Media:** Keep isolated. Wear self-contained breathing apparatus in positive pressure mode and chemical protective clothing. Use halon replacement or carbon dioxide extinguishers of alcohol foam for small fires. Water spray or fog can cool fire but may not be effective in extinguishing fire. Large fires should be extinguished alcohol foam. Use water spray to cool containers exposed to fires.

**Unusual Fire or Explosion Hazards:** See extinguishing media.

**Hazardous Combustion Products:** None

**Fire-Fighting Instructions:** Do not release runoff from fire control methods to sewers or waterways.

**Fire-Fighting Equipment:** Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full facepiece operated in pressure-demand or positive-pressure mode.

## Section 5 - Stability and Reactivity

**Stability:** Wetting Tension Dyne Solutions are stable at room temperature in closed containers under normal storage and handling conditions.

**Polymerization:** Hazardous polymerization cannot occur.

**Chemical Incompatibilities:** Strong Alkalies, High temperatures, acids, Strong oxidizing agents.

**Conditions to Avoid:** Do not distill to dryness. Keep away from acids and heavy Alkalies.

**Hazardous Decomposition Products:** Hydrogen cyanide, Carbon dioxide and ammonia when exposed to high heat.

## Section 6 - Health Hazard Information

### Potential Health Effects

**Primary Entry Routes:** Eyes, Skin, and Inhalation.

**Target Organs:** None

### Acute Effects

**Inhalation:** Causes irritation of the respiratory tract, experience as nasal discomfort and discharge with chest pain and coughing. Headache, nausea and vomiting may occur.

**Eye:** Liquid or vapor causes irritation, experienced blinking and tear productions, with excess redness and swelling of the conjunctiva.

**Skin:** Can be absorbed through skin and cause effects on body. Effects may include those described for swallowing.

**Ingestion:** May cause headache, nausea, vomiting, breathing difficulties and weakness, possible kidney damage may result from ingestion.

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**Carcinogenicity:** IARC, NTP, and OSHA do not list Wetting Tension Test Dyne Solutions as a carcinogen.

**Medical Conditions Aggravated by Long-Term Exposure:** None Known

**Chronic Effects:** Chronic exposure to Wetting Tension Tests Dyne Solutions (400 ppm or higher) may cause injury to bone marrow, blood cells, kidney, liver and testes. Can be dangerous to pregnant women and fetal development of children.

### **Emergency and First Aid Procedures**

**Inhalation:** Move the exposed person to fresh air at once and call emergency medical care. If breathing has stopped, give artificial respiration. If breathing is difficult, give humidified oxygen.

**Eye Contact:** If the chemical contacts the eyes, immediately wash the eyes with large amounts of room temperature water for at least 15 minutes, occasionally lifting the lower and upper lids. Get medical attention immediately. A follow up visit to ophthalmologist should be made if irritation persists.

**Skin Contact:** If this chemical contacts the skin, promptly wash the contaminated skin with soap and water for atleast 15 minutes. If this chemical penetrates the clothing, promptly remove the clothing and wash the skin with soap and water.

**Ingestion:** Seek medical attention immediately. Contact a poison center, physician, or medical facility for advice in whether to induce vomiting. If possible, do not leave the individual unattended.

**Note to Physicians:** There is no specific anti-dote. Treatment of overexposure should be directed at the control of symptoms and clinical condition of patient.

**Special Precautions/Procedures:** Wear safety glasses and rubber gloves while using.

## **Section 7 - Spill, Leak, and Disposal Procedures**

### **Spill /Leak Procedures:**

**Small Spills:** Take up with sand or other non-combustible absorbant material and place into containers for later disposal.

**Large Spills:** Shut of all sources of ignition. No smoking or flares allowed in the spill area. Restrict access to spill area, and move unprotected personnel upwind of the area. Keep out of low areas. Allow only trained personnel wearing NIOSH approved supplied air or self contain respirators in the vicinity of the spill. Do not touch-spilled material; stop leak if you can do so without risk. If fire potential exists, cover spill with foam, prevent Wetting Tension Dyne Solutions from entering water bodies, drains, and any sewage collection system.

**Containment:** Control large spills by diking. Dispose all spilled material in accordance with federal, state, and local regulations. Wetting Tension Test Dyne Solutions spills over the reportable quantity (1000 lbs Glycol Ether) should be reported to the National Response Center (800-424-8802).

**Cleanup:** As above indicated under the small spill procedure.

**Regulatory Requirements:** Follow applicable OSHA regulations (29 CFR 1910.120).

**Disposal:** Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations.

**Disposal Regulatory Requirements:** N/A

**Container Cleaning and Disposal:** N/A

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## **Ecological Information:**

### **EPA Regulations:**

RCRA Hazardous Waste Number: **U359** (40 CFR 261.33)  
RCRA Hazardous Waste Classification: Glycol monoethyl ether (1000 LBS)  
CERCLA Hazardous Substance (40 CFR 302.4) **listed** specific per RCRA, Sec. 3001; CWA, Sec. 311 (b)(4); CWA, Sec. 307(a), CAA, Sec. 112  
CERCLA Reportable Quantity (RQ), Glycol monoethyl ether (1000 lbs)  
SARA 311/312 Codes: Glycol monoethyl ether 110-80-5  
SARA Toxic Chemical (40 CFR 372.65): Listed, Glycol monoethyl ether  
SARA EHS (Extremely Hazardous Substance) (40 CFR 355): **Not listed**, Threshold Planning Quantity (TPQ)

### **OSHA Regulations:**

Air Contaminant (29 CFR 1910.1000, Table Z-1, Z-1-A): **SOCMI CHEMICAL – GYLCOL MONOETHYL EHTER**  
OSHA Specifically Regulated Substance: **Not listed**

## **Section 8 - Exposure Controls / Personal Protection**

### **Engineering Controls:**

**Ventilation:** Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

### **Administrative Controls:**

**Respiratory Protection:** Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or non-routine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA.

*Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.* If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

**Protective Clothing/Equipment:** Wear chemically protective gloves, boots, aprons, and gauntlets to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

**Safety Stations:** Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

**Contaminated Equipment:** Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

**Comments:** Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

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## Section 9 - Special Precautions and Comments

**Handling Precautions:** See below

**Storage Requirements:** Store in a well-ventilated place in accordance with 29 CFR 1910.106 away from sources of ignition, combustibles, oxidizing materials, and acids. Store in an area equipped with automatic sprinklers or fire extinguishing system. Containers of this material may be hazardous when emptied. Since emptied containers retain product residues, assume emptied containers to have the same hazards as full containers. Use spark resistant equipment to store methanol.

### DOT Transportation Data (49 CFR 172.101):

<b>Shipping Name:</b> N/A	<b>Packaging Authorizations</b>	<b>Quantity Limitations</b>
<b>Shipping Symbols:</b> N/A	<b>a) Exceptions:</b> N/A	<b>a) Passenger, Aircraft, or Railcar:</b>
<b>Hazard Class:</b> N/A	<b>b) Non-bulk Packaging:</b>	N/A
<b>ID No.:</b> N/A	N/A	<b>b) Cargo Aircraft Only:</b> N/A
<b>Packing Group:</b> N/A	<b>c) Bulk Packaging:</b> N/A	
<b>Label:</b> N/A		<b>Vessel Stowage Requirements</b>
<b>Special Provisions</b>		<b>a) Vessel Stowage:</b> N/A
<b>(172.102):</b> N/A		<b>b) Other:</b> N/A

**Disclaimer:** The data contained herein is drawn from recognized sources and believed to be accurate as the date of issue. Persons who have or should obtain professional knowledge intend this information for use and experience in the subjects discussed, and is presented only for your evaluation of the suitability of this product for your use, and for compliance with Federal and State regulations. The manufacturer makes no warranty, express or implied, and disclaims all liability for the accuracy, completeness, and reliability of any information contained herein

**Prepared By:** Wayne T. Benz

**Revision Notes:** Revision of 1996 Version. Updated HMIS rating 9/19/2003, Added kit to name of MSDS, 4/26/04 Added pens to name of MSDS, 1/30/05 reviewed Revised 04-12-05

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