

**Material Safety Data Sheet**

HMIS®

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

**HEALTH****1****REACTIVITY****0****FLAMMABILITY****0****PERSONAL PROTECTION****B****Identity** (As Used on Label and List)**33416, 33420****Liquid Alive Enzyme Digestant**

*Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.*

**SECTION I**

<b>Manufacturer's Name</b> ITW Dymon	<b>Emergency Telephone Number</b> 1.800.535.5053
<b>Address (Number, Street, City, State, and ZIP Code)</b> 805 East Old 56 Highway	<b>Telephone Number for Information</b> 1.913.397.9889
Olathe, Kansas 66061	<b>Date Prepared</b> May 30, 2001
	<b>Signature of Preparer (Optional)</b> Regulatory Dept.

**SECTION II - Hazardous Ingredients/Identity Information**

Hazardous Components (Specific Chemical Identity, Common Name(s))	CAS No.	OSHA PEL	ACGIH-TLV	Other Limits	
				Recommended	%(Opt.)
VM & P Naphtha	64742-89-8	5 mg/m <sup>3</sup> (mist)	5 mg/m <sup>3</sup> (mist)		3-7 %
*Methanol	67-56-1	200 ppm (skin)	200 ppm (skin)	250 ppm (STEL)	1-5 %
Isobutane	75-28-5	800 ppm	800 ppm		5-10 %
Propane	74-98-6	1000 ppm	Asphyxiant		1-5 %

\* This product contains methanol which is listed and may require reporting under SARA Title III Sec. 313 if used over the threshold reporting quantity. This information must be included in all MSDSs that are copied and distributed for this material.

TSCA: All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

Any substance listed as hazardous by the States of California, Florida, Illinois, Michigan, New Jersey, Ohio, Pennsylvania or Texas is described above if known present in regulated concentrations.

**SECTION III Physical/Chemical Characteristics**

<b>Boiling Point</b> Concentrate	148 ° F	<b>Specific Gravity (H<sub>2</sub>O = 1)</b> Concentrate	0.99
<b>Pressure (psig. @ 70° F)</b>	50 ± 5	<b>Melting Point</b>	No Data
<b>Vapor Density (AIR = 1)</b>	Greater than one (1)	<b>Evaporation Rate (Ethyl Ether = 1)</b>	1.62
<b>Solubility in Water</b> Emulsifies completely into water.		<b>pH</b>	9.5 ± 0.5

**Appearance and Odor -**

Thin white opaque liquid with a pleasant scent. Foam out of aerosol dispenser.

**SECTION IV - Fire and Explosion Hazard Data**

<b>USA Flame Projection Test</b> 6" - 8", No flashback (Non-flammable)	<b>Flammable Limits</b> No Data	<b>LEL</b> No Data	<b>UEL</b> No Data
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**Extinguishing Media**

Not usually necessary. Carbon dioxide, dry chemical, foam or water fog acceptable.

**Special Fire Fighting Procedures** - Use water spray to keep containers cool and vapors down. Do not allow runoff to enter sewers or public watercourses. Wear self-contained breathing apparatus in chemical fires.

**Unusual Fire and Explosion Hazards -**

Aerosol container (pressurized) may burst if heated over 120° F. Foam may retain propellant.

**SECTION V - Reactivity Data**

Stability	Unstable		Conditions to Avoid - Extreme heat, direct sunlight
	Stable	X	

**Incompatibility (Materials to Avoid)**

Strong acids and oxidizers, selected amines.

**Hazardous Decomposition or Byproducts -**

Carbon dioxide and carbon monoxide.

Hazardous Polymerization	May Occur		Conditions to Avoid - None known
	Will Not Occur	X	

**SECTION VI - Health Hazard Data**

Route(s) of Entry	Eyes?	Inhalation?	Skin?	Ingestion?
	Yes	Yes	Yes	Yes

**Health Hazards (Acute and Chronic ) -** Warning. Harmful if swallowed. May cause eye and skin irritation. May cause respiratory tract irritation. Contents under pressure. Toxic by ingestion. Aspiration hazard.

<b>Carcinogenicity:</b> None known	<b>NTP?</b> No	<b>IARC Monographs?</b> No	<b>OSHA Regulated?</b> No
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WARNING: This product may contain trace chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**Signs and Symptoms of Exposure -** Redness, tearing, burning in eyes. Defatting or drying of skin, cracking. Narcotic effects possible with inadequate ventilation. Irritation of nose and throat. Aspiration hazard. Contains methanol (less than 2.5%).

**Medical Conditions Generally Aggravated by Exposure**

Pre-existing skin and lung disorders. Follow good chemical hygiene procedures to avoid this hazard.

**Emergency and First Aid Procedures: -**

**Eyes -** Flush with plenty of water for at least 15 minutes lifting eyelids to insure complete removal. Get immediate medical attention.

**Ingestion -** Do not induce vomiting. Get immediate medical attention. **Inhalation -** Get to fresh air. If breathing has stopped, qualified personnel should administer artificial respiration. **Skin -** Flush with plenty of water for at least 15 minutes.

**SECTION VII - Precautions for Safe Handling and Use**

**Steps to be Taken in Case Material is Released or Spilled -** Caution, slip hazard. Wipe up small spills promptly with a towel or other absorbent material. For large spills, isolate traffic and ventilate area. Eliminate all ignition sources. Wear protective gear as necessary. Dike to prevent spread. Pick-up on absorbent material. Put in suitable container. Dispose of properly.

**Waste Disposal Method -** Consult local, state and federal regulations. Do not puncture or incinerate container. Replace cap on empty can, wrap, then discard container if allowed by applicable statutes.

**Precautions to be Taken in Handling and Storing -** Do not get in eyes. Avoid contact with skin and clothing. Do not swallow. Wash thoroughly after handling. Contains petroleum distillates. Aspiration hazard. Store in a cool (under 120° F) dry location away from heat, sparks, open flame, direct sunlight, etc. Do not puncture or incinerate container. Direct spray away from face. Use with adequate ventilation. Replace cap when not in use. Avoid inhaling mist or vapors.

**Other Precautions -** Follow label directions carefully. Keep out of reach of children. Do not deliberately concentrate and inhale vapors. Do not use around ignition sources such as heat, sparks, open flame, etc. Do not contaminate food, water or feed by use or storage.

**SECTION VIII - Control Measures**

**Respiratory Protection (Specify Type) -** Not usually necessary. Use with adequate ventilation. If PELs or TLVs are exceeded (see Section II), use an approved NIOSH\MSHA respirator.

Ventilation	Local Exhaust	Not necessary	Special	None
	Mechanical (General) -	Yes	Other	None

**Protective Gloves**

Yes (impermeable, i.e. rubber, neoprene, etc.)

**Eye Protection**

Yes (safety glasses w/ side shields, or goggles)

**Other Protective Clothing or Equipment -**

If needed to prevent body contact. Launder contaminated clothing before reuse.

**Work/Hygienic Practices -**

Normal. Wash thoroughly before eating, drinking, smoking, using restrooms, etc.

WARNING! The use of this product is beyond the control of the manufacturer; therefore, no guarantee, expressed or implied, is made as to the effects of such or the results to be obtained if not used in accordance with directions or established safe practice. The user must assume all responsibility, including injury or damage, resulting from its misuse as such, or in combination with other materials. The manufacturer warrants only that this product meets the manufacturer's specifications for such product. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AS TO DESCRIPTION, QUALITY, MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, PRODUCTIVENESS, OR ANY OTHER MATTER, OF THIS PRODUCT. THE MANUFACTURER SHALL BE IN NO WAY RESPONSIBLE FOR THE PROPER USE OF THIS PRODUCT. The sole and exclusive remedy against the manufacturer for breach of warranty shall be reimbursement of the purchase price of the product in the event that a defective condition of the product shall be found to exist. NO OTHER REMEDY (INCLUDING BUT NOT LIMITED TO INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR INJURY TO PERSON OR PROPERTY OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE.