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## MATERIAL SAFETY DATA SHEETS

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

GENERIC NAME: Gas Treatment  
ISSUE DATE: APRIL 2010

TRADE NAMES:  
1. VALUE TECH SUPER GAS TREATMENT

CAS NUMBER: Mixture  
24 HOUR EMERGENCY TELEPHONE: (CHEMTREC) 1-800-424-9300  
TECHNICAL INFORMATION: 813-248-1988

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENTS	CAS NO.	%	HAZARD DATA
Methanol	67-56-1	>98	Oral (rat) LD50:528 mg/kg Skin (rabbit) LD50: 20 g/kg Subcutaneous (mouse) LD50: 9800 mg/kg

### 3. HAZARDOUS IDENTIFICATION

ROUTES OF ENTRY:	Inhalation, Ingestion, Eye Contact, Skin Contact, Absorption
TARGET ORGANS:	Eyes, Skin, Central Nervous System, GI Tract, Respiratory System, Lungs
MEDICAL CONDITIONS GENERALLY AGGREGATED BY EXPOSURE:	Eye Disorders, Skin Disorders, Liver or Kidney Disorders
CANCER INFORMATION:	None Identified

### 4. FIRST AID MEASURES

EYES:	In case of contact, immediately flush with plenty of water for at least 15 minutes.
DERMAL:	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothes and shoes. Wash clothing before re-use.
INGESTION:	Call a physician. If swallowed, if conscious, give large amounts of water. Induce vomiting.
INHALATION:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

### 5. FIRE FIGHTING MEASURES

FLASH POINT, (Closed Cup) °C( °F):	12°C( 54°F)
FLAMMABLE LIMITS (% BY VOLUME):	LOWER: 36.0%      UPPER: 6.0%
EXTINGUISHING MEDIA:	Use alcohol foam, dry chemical or carbon dioxide (Water may be ineffective.)
SPECIAL FIRE FIGHTING PROCEDURES:	Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece operated in positive pressure mode. Move containers from fire area if it can be done without risk. Use water to keep fire-exposed containers cool.
AUTOIGNITION TEMPERATURE:	463°C( 867°F)
EXPLOSION DATA:	Vapors may flow along surfaces to distant ignition sources and flash back. Contact with strong oxidizers may cause fire. Burns with a clear, almost invisible flame.
NFPA RATING:	HEALTH: 3      FLAMMABILITY: 3      REACTIVITY: 0

**6. ACCIDENTAL RELEASE MEASURES**

**SPILL PROCEDURES:** Remove all ignition sources. Stop leak if you can do it without risk. Ventilate area and avoid breathing vapor or mist. Contain away from surface waters and sewers. Contain as a liquid for possible recovery or sorb with compatible sorbent material and shovel into collapsible container for disposal.

**7. HANDLING AND STORAGE**

**HANDLING PROCEDURES:** Keep away from intense heat, sparks, or flame. Empty containers may contain product residue which could include flammable or explosive vapors.

**STORAGE PROCEDURES:** Keep container tightly closed. Store in a cool, dry, well-ventilated, flammable liquid storage area.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

<b>ENGINEERING CONTROLS:</b>	Provide general ventilation needed to maintain concentration of vapor or mist below applicable exposure limits.
<b>GLOVES PROTECTION:</b>	Where skin contact is likely, wear Neoprene, Nitrile, or equivalent gloves; use of natural rubber or equivalent gloves is not recommended.
<b>EYE PROTECTION:</b>	Safety goggles, or chemical splash goggles if splashing is anticipated.
<b>RESPIRATORY PROTECTION:</b>	Normally none required. If high vapor or mist concentrations expected - use respirator approved for organic vapors and mists.
<b>CLOTHING RECOMMENDATION:</b>	Wear appropriate chemical-resistant apron or other protective clothing.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>APPEARANCE:</b>	Clear, colorless Liquid
<b>ODOR:</b>	Pungent Odor
<b>pH:</b>	NA
<b>VAPOR PRESSURE, mm Hg (20 °C):</b>	96
<b>VAPOR DENSITY:</b>	1.11 (Air=1)
<b>MELTING POINT, at 760 mm Hg:</b>	-98°C( -144°F)
<b>BOILING POINT, 760 mm Hg:</b>	65°C( 149°F)
<b>SOLUBILITY IN WATER:</b>	Complete (100%)
<b>SPECIFIC GRAVITY:</b>	.79 (H2O = 1)
<b>EVAPORATION RATE:</b>	4.6 (Butyl Acetate = 1)
<b>PERCENT VOLATILE (20°C):</b>	100

**10. STABILITY AND REACTIVITY**

<b>STABILITY:</b>	Stable
<b>INCOMPATIBILITY:</b>	Strong oxidizing agents, strong acids, zinc, aluminum, magnesium
<b>POLYMERIZATION:</b>	Will not occur
<b>THERMAL DECOMPOSITION:</b>	Carbon Monoxide, Carbon Dioxide, Formaldehyde

**11. TOXICOLOGICAL INFORMATION**

<b>EYE CONTACT:</b>	Irritation, may cause temporary corneal damage.
<b>DERMAL IRRITATION:</b>	Irritation, prolonged contact may cause dermatitis.
<b>INHALATION:</b>	Is harmful and may be fatal, headache, nausea, vomiting, dizziness, narcosis, respiratory failure, low blood pressure, central nervous system depression.
<b>INGESTION:</b>	Is harmful and may be fatal, headache, nausea, vomiting, dizziness, gastrointestinal irritation, central nervous system depression, hearing loss.
<b>CHRONIC EXPOSURE</b>	Kidney damage, Liver damage

**12. HEALTH INFORMATION**

No	<b>HIGHLY TOXIC</b>	No	<b>SENSITIZER</b>
Yes	<b>TOXIC</b>	No	<b>REPRODUCTIVE EFFECTS</b>
No	<b>CORROSIVE</b>	No	<b>MUTAGEN</b>
Yes	<b>IRRITANT</b>	Yes	<b>TARGET ORGAN</b>

### 13. DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL:** It is the responsibility of the user to determine if the material is a hazardous waste at the time of disposal. Determine compliance status with all applicable requirements prior to disposal.

### 14. TRANSPORT INFORMATION

#### DOT (DEPARTMENT OF TRANSPORTATION)

<b>PROPER SHIPPING NAME:</b>	Methyl Alcohol
<b>HAZARD CLASS:</b>	3
<b>UN/NA:</b>	UN1230
<b>LABELS:</b>	3 Flammable Liquid
<b>PACKING GROUP:</b>	II

### 15. REGULATORY INFORMATION

#### **SARA SECTION 313 - TOXIC CHEMICALS:**

This product does contain toxic chemicals under SARA Section 313 and 40 CFR Part 372.

<b>COMPONENTS</b>	<b>CAS #</b>	<b>%</b>
Methanol	67-56-1	> 95

#### **SARA SECTION 311 - HAZARD CATEGORIES:**

This product may meet one or more of the criteria for the hazard categories defined in 40 CFR Part 370 as established by Sections 311 and 312 of SARA as indicated below:

Yes	<b>IMMEDIATE (ACUTE) HEALTH HAZARD</b>	No	<b>SUDDEN RELEASE OF PRESSURE HAZARD</b>
Yes	<b>DELAYED (CHRONIC) HEALTH HAZARD</b>	No	<b>REACTIVE HAZARD</b>
Yes	<b>FIRE HAZARD</b>	No	<b>PRESSURE</b>

#### **SARA SECTION 302 - EXTREMELY HAZARDOUS WASTE:**

This product is not known to contain any components in concentrations greater than one percent that are listed as Extremely Hazardous Substances in 40 CFR Part 355 pursuant to the requirements of Section 302(a) of SARA.

#### **CLEAN WATER ACT (CWA):**

Under the CWA, discharges of crude oil and petroleum products to surface water without proper Federal and State permits must be reported immediately to the National Response Center at (800) 424-8802.

#### **CERCLA HAZARDOUS SUBSTANCES:**

As defined by CERCLA, the term "hazardous substance" does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically listed or designated as a hazardous substance.

#### **U.S. TSCA INVENTORY**

All components of this material are on the U.S. TSCA Inventory or are not required to be listed on the U.S. TSCA Inventory

### 16. OTHER INFORMATION

THE INFORMATION IN THIS MATERIAL SAFETY DATA SHEET SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT, OR OTHERWISE BE EXPOSED TO THIS PRODUCT. THIS INFORMATION HAS BEEN PREPARED FOR THE GUIDANCE OF PLANT ENGINEERING, OPERATIONS AND MANAGEMENT AND FOR PERSONS WORKING WITH OR HANDLING THIS PRODUCT. VALUE TECH BELIEVES THIS INFORMATION TO BE RELIABLE AND UP TO DATE AS OF THE DATE OF PUBLICATION, BUT MAKES NO WARRANTY THAT IT IS.

<b>NFPA HAZARD RATING</b>	least - 0	slight - 1	moderate - 2	high - 3	extreme - 4
<b>HMIS HEALTH RATING</b>	least - 0	slight - 1	moderate - 2	high - 3	extreme - 4