

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: CO2 TESTER FLUID
PART NUMBERS: T35, T35-1, T36, T36-2, T50-2, T50-2W, T50-3, T50-3W, T50-4, T50-4W, T50-5
CHEMICAL FORMULA: MIXTURE
CAS NUMBER: NONE
PRODUCT USE: INSTRUMENT FLUID
U.N. NUMBER, CLASS: UN 1814, POTASSIUM HYDROXIDE SOLUTION
MANUFACTURER: WESTWOOD PRODUCTS INC
ADDRESS: 330 WILLIAM ST., SOUTH RIVER, NJ 08882
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DATE PREPARED: 5/16/2013
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SECTION 2 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: POISON, DANGER, CORROSIVE. RED LIQUID WITH UNPLEASANT PUNGENT ODOR, CORROSIVE LIQUID. EXPOSURE CAN CAUSE BURNS TO SKIN AND EYES, INHALATION CAN CAUSE MILD TO SERIOUS DAMAGE TO UPPER RESPIRATORY TRACT AND LUNGS. INGESTION IS TOXIC AND MAY CAUSE SEVER BURNS AND SCARRING OF MOUTH, THROAT AND STOMACH, NARCOSIS AND OTHER NERVOUS SYSTEM EFFECTS. NON FLAMMABLE LIQUID. ENVIRONMENTAL EFFECTS NOT DETERMINED BUT ASSUMED TO HAVE ADVERSE EFFECTS IN AQUATIC ENVIRONMENTS.

ACUTE HEALTH HAZARDS: EYE: May cause chemical burns with permanent blindness.
SKIN: May cause irritation or severe burns.
INHALATION: Mild irritation to severe damage to upper respiratory tract.
High concentrations can cause lung damage.
INGESTION: Toxic, may cause sever burns and scarring of the mouth, throat and stomach, narcosis and other central nervous system effects.

SIGNAL WORD: Danger!

US DOT SYMBOL:



GHS HAZARD CLASS: ORAL TOXICITY, ACUTE, CATEGORY 4
SKIN CORROSIVE, CATEGORY 1A

PRECAUTIONARY STATEMENTS: Use only in well ventilated area, do not breathe fumes, vapors, dust, mist, spray.
Wear protective clothing and gloves, wash hands thoroughly after handling.
Wear eye protection. Wear face protection.

HEALTH HAZARDS: ACUTE: INHALATION: May cause eye, mucous membrane and respiratory irritation or damage. Severe exposure can cause pulmonary edema. Inhalation of Isooctyl alcohol may cause dizziness, narcosis, and other nervous system effects.
EYE: May cause chemical burns with permanent blindness.

SKIN: May cause chemical burns, severity depending on duration of contact.
 INGESTION: Toxic, may cause severe burns and scarring of mouth, throat and stomach.
 Chronic: Prolonged or repeated skin contact may cause dermatitis.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS #	WT%	HAZARD CLASSIFICATION
WATER	7732-18-5	85-95%	NONE
POTASSIUM HYDROXIDE	1310-58-3	5-15%	HARMFUL, CORROSIVE
OCTYL ALCOHOL	111-87-5	0.1-1%	FLAMMABLE
ACID RED 14 (DYE)	3567-69-9	<.1%	
SOLVENT RED 24(DYE)	85-83-6	<.1%	
SOLVENT RED 26 (DYE)	4477-79-6	<.1%	

SECTION 4 – FIRST AID MEASURES

EYE CONTACT: Immediately flush with plenty of water for 20-30 minutes, lifting upper and lower lids. Get immediate medical attention.
 SKIN CONTACT: Immediately flush with water while removing contaminated clothing. Get immediate medical attention. Wash contaminated clothing before reuse.
 INHALATION: Remove victim to fresh air. Give artificial respiration if needed. Get immediate medical attention.
 INGESTION: Do not induce vomiting. Give large quantities of water. Never give anything by mouth to an unconscious person.

SECTION 5 – FIRE FIGHTING MEASURES

FLASH POINT: >200° F
 FIRE EXTINGUISHING MATERIALS: As appropriate for fighting surrounding fire.
 FIRE AND EXPLOSION HAZARDS: Gases may be generated by combustion that can be irritating or toxic.
 SPECIAL FIRE –FIGHTING PROCEDURES: Fire fighters should wear eye protection. Fire hazard is slight. Octyl alcohol component (< 5%) is the only combustible part. Cool exposed equipment with water spray until well after fire is out. Self contained breathing apparatus (SCBA) and structural firefighter's protective clothing will provide limited protection.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Ventilate area. Wear appropriate personal protective equipment. Dilute with water and neutralize with dilute acetic acid. Absorb or with an inert absorbent and place into a suitable chemical waste container for disposal. Do not flush to the sewer.

SECTION 7 – HANDLING AND STORAGE

HANDLING: Wear protective clothing and gloves, wash hands thoroughly after handling. Wear eye protection. Wear face protection. Avoid contact with skin, eyes, mouth. Use in a well-ventilated area. Do not breathe vapors. Remove contaminated clothing immediately.
 STORAGE: Store in a cool dry place away from incompatible materials in properly labeled containers. Keep containers tightly closed when not in use. Do not crush containers.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS:

COMPONENT	CAS #	OSHA PEL
WATER	7732-18-5	NONE
POTASSIUM HYDROXIDE	1310-58-3	2mg/m ³
OCTYL ALCOHOL	111-87-5	50 ppm

ENGINEERING CONTROLS: Use exhaust ventilation to remove fumes and dust, use near eyewash/shower station.

PERSONAL PROTECTION: Use chemical resistant impervious gloves. Use eye protection. Use face shield protection.

Wear protective clothing.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT:> 212°F (>100°C)

SPECIFIC GRAVITY: KOH 1.2, OCTYL ALCOHOL .82@60°F

FREEZING POINT: 32°F (0°C)

VAPOR PRESSURE(mm Hg.): Octyl Alcohol .04@70°F

MELTING POINT: N/A

VAPOR DENSITY (AIR=1): Octyl Alcohol 4-5

EVAPORATION RATE: N/A

SOLUBILITY IN WATER: KOH soluble, Octyl Alcohol insoluble

APPEARANCE and ODOR: Red liquid with unpleasant pungent odor

pH: 13-14

SECTION 10 – STABILITY AND REACTIVITY

CHEMICAL STABILITY: stable

HAZARDOUS DECOMPOSITION: Thermal decomposition produces oxides of potassium and carbon.

CONDITIONS TO AVOID: Avoid contact with incompatible materials.

INCOMPATIBLE MATERIALS: Acids, halogens, halogenated hydrocarbons, maleic anhydride, organic anhydrides, isocyanates, alkylene oxides, epichlorhydrin, aldehydes, alcohols, glycols, phenols, cresols, caprolactum solution. Also incompatible with nitro compounds (nitrobenzene, nitromethane, nitrogen trichloride), organic materials, acid anhydrides, acid chlorides, magnesium, peroxidized tetrahydrofuran, chlorine dioxide, maleic dicarbide, sugars. Attacks metals such as aluminum, tin, lead, and zinc.

SECTION 11 – TOXICOLOGICAL INFORMATION

TOXICITY DATA: Data on mixture not available

Potassium Hydroxide, CAS 1310-58-3, Potassium hydroxide: ORAL (LD50): Acute: 273 mg/kg [Rat].

EXPOSURE: Skin contact, eye contact, mouth contact, ingestion, and inhalation can cause irritation or damage to skin, eyes, mouth, stomach, or lungs.

CARCINOGENS: No components are known to be carcinogenic.

SECTION 12 – ECOLOGICAL INFORMATION

ALL WORK PRACTICES MUST BE DIRECTED AT PREVENTING ENVIRONMENTAL RELEASES.

ECOTOXICITY: No data available.

PERSISTANCE AND DEGRADABILITY: No data available.

BIOACCUMULATIVE POTENTIAL: no data

MOBILITY IN SOIL: no data

SECTION 13 – DISPOSAL CONSIDERATIONS

DISPOSE IN ACCORDANCE TO GOVERNING REGULATIONS

SECTION 14 – TRANSPORT INFORMATION

DOT CLASS NUMBER: CLASS 8 Corrosive

DOT SHIPPING NAME: Potassium Hydroxide Solution

UN IDENTIFICATION NUMBER: UN 1814

PACKAGING GROUP: PGII

DOT LABEL REQUIRED: Corrosive

SECTION 15 – REGULATORY INFORMATION

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

This product does not contain toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) of 1986 and 40 CFR Part 372.

California Proposition 65: This product does not contain chemicals known to the State of California to cause cancer or reproductive toxicity.

SECTION 16 – OTHER INFORMATION

DATE OF PREPARATION:05-16-2013

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