

SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION

GHS Product Identifier	CO2 Tester Fluid
Other means of identification	Part Numbers: T35, T35-1, T36, T36-2, T50-2, T50-2W, T50-3, T50-3W, T50-4, T50-4W, T50-5
Recommended use of the chemical and restriction on use	Industrial use only. For professional use only.
Supplier's details	
PurePro	
160 Middlesex Turnpike	
Bedford MA 01730	
Emergency phone number	
781-272-6600	

SECTION 2 – HAZARD(S) IDENTIFICATION

Classification of the substance or mixture

Metal corrosive 1	H290
Acute toxicity 4 (oral)	H302
Skin corrosion/irritation 1A	H314
Serious eye damage/eye irritation 1	H318

GHS label elements



[H290] May be corrosive to metals

[H302] Harmful if swallowed

[H314] Causes severe skin burns and eye damage

[H318] Causes serious eye damage

[P234] Keep only in original packaging.

[P260] Do not breathe dust/fume/gas/mist/vapours/spray.

[P264] Wash hands or exposed areas thoroughly after handling.

[P270] Do not eat, drink or smoke when using this product.

[P280] Wear protective gloves/protective clothing/eye protection/face protection.

[P301+P312] IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell.

[P301+P330+P331] IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

[P303+P361+P353] IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower.

[P304+P340] IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.

[P305+P351+P338] IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

[P310] Immediately call a POISON CENTER/doctor/.

[P321] Specific treatment (see section 4 on this label).

[P330] Rinse mouth.

[P363] Wash contaminated clothing before reuse.

[P390] Absorb spillage to prevent material damage.

[P405] Store locked up.

[P406] Store in a corrosion resistant/ container with a resistant inner liner.

[P501] Dispose of contents/container to compliance with regional governing regulations.

Other hazards which do not result in classification

Exposure may aggravate pre-existing conditions with eye, skin, or respiratory tract. May be corrosive to respiratory tract. When heated to decomposition, emits toxic fumes.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS**MIXTURE**

COMPONENT	CAS #	WT%	HAZARD CLASSIFICATION
WATER	7732-18-5	85-95%	NONE
POTASSIUM HYDROXIDE	1310-58-3	5-15%	METAL CORROSIVE 1, H290 ACUTE TOX. 4 (ORAL), H302 SKIN CORROSIVE 1A, H314 EYE DAMAGE 1, H318
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.

Most important symptoms/effects, acute and delayed

General: Harmful if swallowed. Causes severe skin burns. Causes severe eye damage.

Inhalation: May be corrosive to respiratory tract.

Skin Contact: Causes severe irritation and chemical burns.

Eye Contact: Causes permanent damage to the cornea, iris, and/or conjunctiva.

Ingestions: Harmful orally, can cause adverse health effects or death in significant amounts. May cause irritation or burns of the lining of mouth, throat, and gastrointestinal tract.

Indication of immediate medical attention and special treatment needed, if necessary

If exposed, get medical attention. Have product label or container available.

SECTION 5 – FIRE FIGHTING MEASURES**Suitable extinguishing media**

Water spray, dry chemical, foam, carbon dioxide, or any fire extinguishing material as appropriate for fighting surrounding fire.

Specific hazards arising from the chemical

Fire Hazard: Not considered flammable but may burn at high temperatures.

Explosion Hazard: Contact with metals may produce hydrogen gas which is flammable.

Reactivity: Corrosive to metals. Exposure to metals may produce flammable hydrogen gas. Exposure to water may react

exothermally producing heat.

Special protective actions for fire-fighters

Fire fighters should wear eye protection, skin protection, and respiratory 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. Hazardous combustion products may include: potassium oxides, nitrogen oxides, sulfur oxides, corrosive vapors, and other toxic fumes.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear eye protection, skin protection, respiratory protection, do not get on clothes, do not breathe vapor, mist or spray. Evacuate and ventilate area.

Environmental precautions

Block drainage to sewars and public waters.

Methods and materials for containment and cleaning up

Contain and isolate spills with dikes and/or absorbants to prevent drainage to sewars and public waters. Transfer spilled materials to suitable container for disposal. Use appropriate neutralizing agents on spilled liquids.

SECTION 7 – HANDLING AND STORAGE

Precautions for safe handling

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.

Conditions for safe storage, including any incompatibilities

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.

INCOMPATIBILITIES: Strong Acids, Strong Bases, Strong Oxidizers.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

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

Appropriate engineering controls

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

Individual protection measures

Use chemical resistant impervious gloves. Use eye protection. Use face shield protection. Wear protective clothing. Use respiratory protection.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical and chemical properties

Appearance (physical state, color, etc.):	Red liquid
Odor:	unpleasant pungent
Odor threshold:	not available
pH:	13-14
Melting point/freezing point:	not available
Initial boiling point and boiling range:	>212°F (>100°C)
Flash point:	not available
Evaporation rate:	not available
Flammability (solid, gas):	not available
Upper/lower flammability or explosive limits:	none
Vapor pressure:	not available
Vapor density:	not available
Relative density:	not available
Solubility(ies):	not available
Partition coefficient: n-octanol/water:	not available
Auto-ignition temperature:	not available
Decomposition temperature:	not available
Viscosity:	not available

SECTION 10 – STABILITY AND REACTIVITY

Reactivity Corrosive to metals and may produce flammable hydrogen gas. May react exothermally to water releasing heat. Mixing acids and bases may produce violent reaction.

Chemical stability Chemically stable when stored properly.

Possibility of hazardous reactions No possibility of hazardous polymerization.

Conditions to avoid Direct sunlight, extreme high or low temperatures, and incompatible materials.

Incompatible materials

Strong acids, bases, or oxidizers, metals. Corrosive to metals such as aluminum, tin, lead and zinc.

Hazardous decomposition products Potassium oxides, carbon monoxide, carbon dioxide, corrosive vapors, nitrogen oxides, sulfur oxides, irritating vapors, toxic vapors.

SECTION 11 – TOXICOLOGICAL INFORMATION

Toxicological (health) effects

Inhalation: May be corrosive to respiratory tract.

Skin contact: Causes severe irritation and chemical burns after skin contact.

Eye Contact: Causes irritation or burns to cornea, iris, and/or conjunctiva.

Ingestion: Causes adverse health effects or death in significant amounts. May burn or irritate linings of mouth, throat and gastrointestinal tract.

Numerical measures of toxicity (such as acute toxicity estimates)

TOXICITY DATA: Data on mixture not available

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

Acid Red 14 (3567-69-9), Ld50 Oral Rat, >10g/kg.

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

Toxicity	Not classified.
Persistence and degradability	Not established.
Bioaccumulative potential	Not established.
Mobility in soil	Not available.
Other adverse effects	Avoid release to environment.

SECTION 13 – DISPOSAL CONSIDERATIONS

Disposal methods Dispose of in appropriate container in accordance with governing regulations.

Take full precautions with empty containers as they may still be hazardous to handle.

Avoid release to the environment.

SECTION 14 – TRANSPORT INFORMATION

UN Number	UN1814
UN Proper Shipping Name	Potassium Hydroxide, solution
Transport hazard class(es)	8
Packing group, if applicable	II

SECTION 15 – REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product in question

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: 06-30-2016

Date of last revision: 06-30-2016