
SAFETY DATA SHEET

Section 1: IDENTIFICATION

Product Name: PW-RC5 Press Wash
Product Code: 195-816
MSDS Date: May 4, 2016

Lawson Screen & Digital Products
5110 Penrose St.
St. Louis, MO 63115

General Information: 314-382-9300
CHEMTREC: 800-424-9300

Section 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

GHS Classification:

Flammable liquids (Category 3)
Eye irritation (Category 2A)
Skin irritation (Category 2)
Skin sensitization (Category 1)
Specific target organ toxicity - single exposure (Category 3)
Aspiration hazard (Category 1)

GHS Labeling



Symbol:

Signal Word: Danger

Hazard Statements:

Flammable liquid and vapor
Causes serious eye irritation
Causes skin irritation
May cause an allergic skin reaction
May cause drowsiness or dizziness
May be fatal if swallowed and enters airways

Precautionary Statements:

Prevention:

Keep away from heat/sparks/open flames/hot surfaces. No smoking.
Keep container tightly closed.
Ground/Bond container and receiving equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wash hands thoroughly after handling.
Wear protective gloves/eye protection/face protection.
Avoid breathing mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

Response:

IF ON SKIN (or hair): Take off immediately all contaminated clothing and wash before reuse. Rinse skin with water/shower.

In case of fire: consider carbon dioxide, dry chemical powder, dry sand, limestone powder, or alcohol resistant foam to extinguish.

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

If eye irritation persists: Get medical advice/attention.

If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

Call a poison center/doctor if you feel unwell.

If swallowed: Immediately call a poison center/doctor.

Do NOT induce vomiting.

Storage:

Store in a well-ventilated place. Keep cool.

Store locked up.

Disposal:

Dispose of contents/ container to an approved waste disposal plant.

Potential Health Effects: See Section 11 for more information

This product does not contain carcinogens or potential carcinogens as listed by NTP, IARC, and OSHA.

This material contains components that are considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Potential Environmental Effects: See Section 12 for more information.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

No.	Component CAS REG. NO.	Amount %	OSHA		ACGIH	
			TWA	STEL	TWA	STEL
1	1-Methoxy-2-Propanol 107-98-2	1-50	100 ppm	150 ppm	100 ppm	150 ppm
2	Dipropylene Glycol Monomethyl Ether 34590-94-8	1-50	100 ppm	Not avail	100 ppm	150 ppm
3	Ethyl 3-Ethoxypropionate 763-69-9	1-50	Not avail	Not avail	50 ppm	100 ppm
4	Limonene, D- 5989-27-5	1-50	Not avail	Not avail	30 ppm	Not avail
5	Aromatic 100 Fluid 64742-95-6	1-50	Not avail	Not avail	Not avail	Not avail
6	Propylene Carbonate 108-32-7	1-50	Not avail	Not avail	Not avail	Not avail

Section 4: FIRST AID MEASURES

Emergency first aid procedures by route of exposure:

Inhalation: If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain medical attention if breathing difficulty persists.

Ingestion: Do not induce vomiting. Risk of damage to the lungs exceeds poisoning risk. Obtain emergency medical attention.

Skin: Remove contaminated clothing as needed. Wash skin thoroughly with mild soap and water. Flush with lukewarm water for 15 minutes. If sticky, use waterless cleaner first. Seek medical attention if ill effect or irritation develops.

Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

Section 5: FIRE FIGHTING MEASURES

Flash Point (Ethyl 3-Ethoxypropionate): 58°C (136.4°F)
Auto-ignition Temperature (Ethyl 3-Ethoxypropionate): 377°C (710.6°F)
Lower Explosion Limit: Not available
Upper Explosion Limit: Not available

Suitable Extinguishing Media:

SMALL FIRE: Use dry chemical, CO₂, water spray or regular foam.

LARGE FIRE: Use water spray, water fog or regular foam.

Products of Combustion: Upon decomposition this product may emit carbon dioxide, carbon monoxide, and/or low molecular weight hydrocarbons.

Fire Fighting Equipment/Instructions:

When heated above the flash point, releases flammable vapors. Fine sprays/mists may be combustible at temperatures below normal flash point. When mixed with air and exposed to ignition source, vapors can burn in open or explode if confined. Vapors may be heavier than air. May travel long distances along the ground before igniting and flashing back to vapor source. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Move containers from fire area if you can do it without risk. Cool containers with flooding quantities of water until well after fire is out. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. Always stay away from tanks engulfed in fire. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

HAZARD	HMIS	NFPA
Toxicity	2	2
Fire	2	2
Reactivity	0	0

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Protection:

Eliminate all sources of ignition. All equipment used when handling this product must be grounded. Do not touch or walk through spilled material. Stop leak if you can do it without risk. A vapor suppressing foam may be used to reduce vapors.

Environmental Precautions: Prevent entry into waterways, sewers, basements or confined areas.

Method for Containment: Absorb spilled liquid in suitable non-flammable inert material such as clay, vermiculite or diatomaceous earth.

Methods for Clean-up: Use clean non-sparking tools to collect absorbed material. Dike large spills and place materials in salvage containers. Water spray may reduce vapor; but may not prevent ignition in closed spaces.

Section 7: HANDLING AND STORAGE

Handling:

For industrial use only. Keep container tightly closed when not in use. Handle empty containers with care, All electrical equipment should be grounded and conform to applicable electric codes and regulatory requirements, Flammable/combustible residue remains after emptying. Properly ground containers before beginning transfer. Use only non-sparking tools. Isolate, vent, drain, wash and purge systems or equipment before maintenance or repair. Extinguish all ignition sources. Check atmosphere for explosiveness and oxygen deficiencies. Observe precautions pertaining to confined space entry.

Storage:

Store only in tightly closed, properly vented containers away from heat, sparks, open flame and strong oxidizing agents. Storage under nitrogen atmosphere is recommended to minimize possible formation of highly reactive peroxides. Store in properly lined steel/stainless steel to avoid slight discoloration from mild steel/copper.

Section 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

Engineering Controls: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Personal Protective Equipment (PPE)

Respiratory Protection: A respiratory protection program that meets OSHA's 29CFR 1910.134 or ANSI Z88.2 requirements must be followed whenever workplace conditions warrant respirator use.

Eye/Face Protection: Eye protection such as chemical splash goggles and/or face shield must be worn when possibility exists for eye contact due to splashing or spraying liquid or vapor.

Hand Protection: Wear chemical resistant gloves such as Butyl rubber or Viton.

Body: When skin contact is possible, protective clothing including apron, sleeves, boots, head and face protection should be worn.

Other Protective Equipment:

Facilities storing or utilizing this material should be equipped with eyewash and/or shower facilities.

See section 3 for exposure limits.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance, State: Clear Liquid

Color: Not available

Odor: Typical solvent

pH: Not available

Vapor Density: Not available

Boiling Point (Ethyl 3-Ethoxypropionate): 165-172°C

Vapor Pressure (Ethyl 3-Ethoxypropionate): 0.23 hPa (20°C)

Freezing point (Ethyl 3-Ethoxypropionate): <-50C

Flash Point (See Section 5)

Flammability Properties (See section 5)

Solubility (in water): Not available

Relative Density (Ethyl 3-Ethoxypropionate): 0.95 (20°C)

Evaporation Rate: Not available

Octanol/Water partition coefficient (Kow): Not Available

Auto-ignition temperature: Not Available

Decomposition temperature: Not Available

Section 10: STABILITY AND REACTIVITY

Stability: This material is considered stable at ambient temperatures 70°C (21°C).

Condition to Avoid: Flames, sparks, electrostatic discharge, heat and other ignition sources, moisture.

Incompatible Materials: Strong oxidizing agents. Strong acids. Strong bases. May react with oxygen to form peroxides.

Hazardous Decomposition: Upon decomposition, this product evolves carbon monoxide, carbon dioxide, and/or low weight hydrocarbons.

Hazardous Reactions: This product will not undergo polymerization.

Section 11: TOXICOLOGICAL INFORMATION

ACUTE EFFECTS:

Component Analysis LD50

Ethyl 3-Ethoxypropionate (763-69-9)
Oral LD50 Rat 3200 mg/kg
Dermal LD50 Rabbit 10 mL/kg
Oral LD-50: Rat 4,309 mg/kg
Dermal LD-50 Rabbit 4,080 mg/kg
Dermal LD-50 Guinea Pig) >19,020 mg/kg

Limonene-D (5989-27-5)
Oral LD50 Rat 4400 mg/kg;
Dermal LD50 Rabbit >2000 mg/kg

Aromatic 100 Fluid (64742-95-6)
Inhalation LC50 Rat >5.2 mg/L 4 h;
Inhalation LC50 Rat 3400 ppm 4 h;
Oral LD50 Rat 8400 mg/kg;
Dermal LD50 Rabbit >2000 mg/kg

Dipropylene Glycol Monomethyl Ether (34590-94-8)
Inhalation LC50 Rat 552PPM
Oral LD50 Rat >5,000 MG/KG BWT
Skin LD50 Rabbit 9,510 MG/KG

CHRONIC EFFECTS:

Component

Limonene-D (5989-27-5)

Carcinogenic Effects: This material is not listed as a carcinogen by IARC, NTP, or OSHA. Male rat-clear evidence; female rat-no evidence; male mice-no evidence; female mice-no evidence

Mutagenic Effects: Not Available.

Teratogenic Effects: Not Available

Reproductive Effects: This material has been shown to cause harm to the fetus in laboratory animal studies. Harm to the fetus occurs only at exposure levels that harm the pregnant animal. The relevance of these findings to humans is uncertain.

Developmental Toxicity: Not available

Target Organs: Exposure to this material (or a component) has been found to cause kidney damage in male rats. The mechanism by which this toxicity occurs is specific to the male rat and the kidney effects are not expected to occur in humans. Overexposure to this material has been suggested as a cause of the following effects in laboratory animals; mild, reversible liver effects, mild, reversible kidney effects.

Ethyl 3-Ethoxypropionate (763-69-9)

Carcinogenic Effects Not available

Mutagenic Effects: Negative

Teratogenic Effects: Not Available

Developmental Toxicity: Not Available

Target Organs: Inhalation May be harmful if inhaled. May cause respiratory tract irritation.

Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes May cause eye irritation.

Ingestion May be harmful if swallowed.

Dipropylene Glycol Monomethyl Ether (34590-94-8)

Carcinogenic Effects No Data Available. Information collected on a structurally similar chemical suggest that this glycol ether is not carcinogenic. This substance is not classified for carcinogenicity by IARC, OSHA, NTP, or the EPA.

Mutagenic Effects: Not available

Teratogenic Effects: Not Available

Developmental Toxicity: This substance did not cause maternal toxicity, fetal toxicity, or developmental abnormalities in rats or rabbits during inhalation exposures up to the highest attainable concentration of 300 ppm (1848 mg/m³).

Reproductive Effects: No reproductive studies are available. However, no effects were seen on the testes and ovaries of rats and rabbits in a 90-day repeat dose inhalation toxicity study with exposures up to 200ppm.

Target Organs: Prolonged or high exposures may cause CNS effects and liver and kidney damage.

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.

Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes May cause eye irritation.

Ingestion May be harmful if swallowed.

1-Methoxy-2-Propanol (107-98-2)

Carcinogenic Effects None identified as probable, possible or confirmed human carcinogen by IARC, ACGIH, NTP, or OSHA.

Mutagenic Effects: Negative

Teratogenic Effects: Not Available

Developmental Toxicity: Not Available

Target Organs: Inhalation May be harmful if inhaled. Causes respiratory tract irritation. Vapors may cause drowsiness and dizziness.

Skin May be harmful if absorbed through skin. Causes skin irritation.

Eyes Causes eye irritation.

Ingestion May be harmful if swallowed.

Aromatic 100 Fluid (64742-95-6)

Carcinogenic Effects Not available

Mutagenic Effects: Negative

Teratogenic Effects: Not Available

Developmental Toxicity: Not Available

Target Organs: Aspiration hazard.

Propylene Carbonate (108-32-7)

Carcinogenic Effects Not available

Mutagenic Effects: Negative

Teratogenic Effects: Not Available

Developmental Toxicity: Not Available

Target Organs: Inhalation May be harmful if inhaled. Causes respiratory tract irritation.

Skin May be harmful if absorbed through skin. Causes skin irritation.

Eyes Causes eye irritation.

Ingestion May be harmful if swallowed.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: Ethyl 3-Ethoxypropionate (763-69-9)
96 Hr LC50 Pimephales promelas: 62 mg/L [static]
48 Hr EC50 Daphnia magna: 970 mg/L
NOAEL Rat by gavage 28d 1,000 mg/kg
NOAEL RAT Inhalation study 500 ppm

Ecotoxicity: Limonene-D (5989-27-5)
96 Hr LC50 Pimephales promelas: 0.619-0.796 mg/L [flow-through];
96 Hr LC50 Oncorhynchus mykiss: 35 mg/L

Ecotoxicity: Aromatic 100 Fluid (64742-95-6)
LD50 Colinus virginianus: >2250 mg/kg
5 Days LC50 Colinus virginianus: >6500 ppm [Diet]
96 Hr LC50 Oncorhynchus mykiss: 9.22 mg/L
48 Hr EC50 Daphnia magna: 6.14 mg/L

Ecotoxicity: Dipropylene Glycol Monomethyl Ether (34590-94-8)
LC50/96 Hours fathead minnow > 10,000 mg/l (nominal)
LC50/48 Hours Daphnia magna 1,919 mg/l (nominal)
LC50/96 Hours Brine shrimp > 1,000 mg/l (nominal)
NOEC (plant growth or foliar damage) for direct, single spray application to higher plants >= 250 g/l.

Section 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with local, state, and federal regulations.

Section 14: TRANSPORTATION INFORMATION

Proper Shipping Name: Combustible Liquid, n.o.s.
Hazard Class: Combustible Liquid
Identification No.: NA1993
Packing Group: III
Label: Combustible Liquid

Section 15: REGULATORY INFORMATION

TSCA Inventory This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.

SARA 302/304 The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires facilities subject to Subparts 302 and 304 to submit emergency planning and notification information based on Threshold Planning Quantities (TPQs) and Reportable Quantities (RQs) for "Extremely Hazardous Substances" listed in 40 CFR 302.4 and 40 CFR 355. None

SARA 313: None

CERCLA The Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) requires notification of the National Response Center concerning release of quantities of "hazardous substances" equal to or greater than the reportable quantities (RQ's) listed in 40 CFR 302.4. As defined by CERCLA, the term "hazardous substance" does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically

designated in 40 CFR 302.4. Chemical substances present in this product or refinery stream that may be subject to this statute are: None

SARA 311/312 Hazard The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires facilities subject to this subpart to submit aggregate information on chemicals by "Hazard Category" as defined in 40 CFR 370.2. This material would be classified under the following hazard categories: Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard, Fire Hazard

Section 16: OTHER SUPPLEMENTAL INFORMATION

Prepared by: Manufacturer on behalf of Lawson Screen & Digital Products on 05/04/2016

Disclaimer:

The information and recommendations contained in the Material Safety Data Sheet (MSDS) are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. The information and recommendations set forth herein are presented in good faith and believed to be correct as of this date hereof.

Lawson, however, makes no representation as to the completeness or accuracy thereof, and information is supplied upon the express condition that the persons receiving the information will be required to make their own determination as to its suitability for their purposes prior to use. In no event will Lawson be responsible for any damages of any nature whatsoever resulting from the use of, reliance upon, or the misuse of this information. User assumes all risk of use, storage and handling of the product in compliance with applicable federal, state and local laws and regulations.

NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OF ANY OTHER NATURE, ARE MADE BY LAWSON HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH THE INFORMATION REFERS. The information as supplied herein is simply to be informative and intended solely to alert the user of the substance which is the subject matter of this MSDS. The ultimate compliance with federal, state or local regulations concerning the use of this compound, or compliance with respect to product liability, rests solely upon the purchaser thereof.

This information relates to the material designated and may not be valid for such material used in combination with any other materials nor in any process.