1. Product and Company Identification

Material name: LPS® Precision Clean (Ready-to-use)

Version #: 01
Issue date: 12-20-2012
CAS #: Mixture
Part Number: 02728, 02765

Product use: An industrial cleaner designed to remove grime, oils and light grease from metal, concrete and other durable surfaces.

Manufacturer information: LPS Laboratories, a division of Illinois Tool Works
4647 Hugh Howell Rd
Tucker, GA 30084 United States
www.lpslabs.com
1-800-241-8334 / 770-243-8800
Chemtrec 1-800-424-9300

2. Hazards Identification

Emergency overview: CAUTION

May be harmful in contact with skin. Causes skin and eye irritation. Prolonged exposure may cause chronic effects.

OSHA regulatory status: This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

Potential health effects

Routes of exposure: Inhalation. Ingestion. Skin contact. Eye contact.

Eyes: Avoid contact with eyes. May cause eye irritation.

Skin: Avoid contact with the skin. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

Inhalation: May cause irritation of respiratory tract. Avoid breathing dust/fume/gas/mist/vapors/spray.

Ingestion: Do not ingest. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Target organs: Skin. Eyes. Respiratory system.

Chronic effects: Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

Signs and symptoms: Irritating to eyes and skin. Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Potential environmental effects: Toxic to aquatic organisms.

3. Composition / Information on Ingredients

The components are not hazardous or are below required disclosure limits.

4. First Aid Measures

First aid procedures

Eye contact: Remove contact lenses, if present and easy to do. Rinse with plenty of water. Get medical attention if irritation develops and persists.

Skin contact: Remove and isolate contaminated clothing and shoes. Wash off with soap and water. For minor skin contact, avoid spreading material on unaffected skin. If skin irritation occurs: Get medical advice/attention. Wash clothing separately before reuse.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a POISON CENTER or doctor/physician if you feel unwell.

Ingestion: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Do not induce vomiting without advice from poison control center. Never give anything by mouth to a victim who is unconscious or is having convulsions. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Call a physician or poison control center immediately.

Notes to physician: In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation.
General advice
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Show this safety data sheet to the doctor in attendance.

5. Fire Fighting Measures
Flammable properties
The product is not flammable. No unusual fire or explosion hazards noted.

Extinguishing media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media
None known.

Protection of firefighters
Wear suitable protective equipment.

Fire fighting equipment/instructions
Move containers from fire area if you can do so without risk. Water runoff can cause environmental damage.

6. Accidental Release Measures
Personal precautions
Local authorities should be advised if significant spillages cannot be contained. Immediately evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them.

Environmental precautions
Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Avoid release to the environment. Do not contaminate water.

Methods for containment
ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk. Dike the spilled material, where this is possible. Collect spillage. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.

Methods for cleaning up
Ventilate the contaminated area. Wear appropriate protective equipment and clothing during clean-up.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Prevent product from entering drains. Do not allow material to contaminate ground water system. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. Clean up in accordance with all applicable regulations. This material and its container must be disposed of as hazardous waste. For waste disposal, see section 13 of the MSDS.

7. Handling and Storage
Handling
DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Do not breathe mist or vapor. Do not get this material in contact with eyes. Do not get this material in contact with skin. Avoid prolonged exposure. Do not get this material on clothing. Use only outdoors or in a well-ventilated area. Wear personal protective equipment. Wash thoroughly after handling. Avoid release to the environment. Do not empty into drains.

Storage
Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Store in a closed container away from incompatible materials. Keep away from food, drink and animal feedingstuffs. Keep out of the reach of children.

8. Exposure Controls / Personal Protection
Engineering controls
Ensure adequate ventilation, especially in confined areas.

Personal protective equipment
Eye / face protection
Avoid contact with eyes. Wear safety glasses with side shields (or goggles). Eye wash fountain is recommended.
Skin protection: Do not get this material in contact with skin. Do not get this material on clothing. Wear protective gloves. Use personal protective equipment as required.

Respiratory protection: Do not breathe dust/fume/gas/mist/vapors/spray. If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

General hygiene considerations: When using, do not eat, drink or smoke. Do not get in eyes, on skin, on clothing. Wash hands after handling and before eating. Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

- **Appearance**: Clear.
- **Physical state**: Liquid.
- **Form**: Liquid.
- **Color**: Green.
- **Odor**: Mild. Citrus.
- **Odor threshold**: Not available.
- **pH**: 12.5
- **Vapor pressure**: 17.5 mm Hg @ 20°C est.
- **Vapor density**: > 1
- **Boiling point**: ~100°C (212°F)
- **Melting point/Freezing point**: Not available.
- **Solubility (water)**: 100 %
- **Specific gravity**: 1.012
- **Relative density**: Not available.
- **Flash point**: None
- **Flammability limits in air, upper, % by volume**: 14 % estimated
- **Flammability limits in air, lower, % by volume**: 1.1 % estimated
- **Auto-ignition temperature**: Not available.
- **VOC**: 0.38 % per State and Federal Consumer Product Regulations
- **Evaporation rate**: 1 BuAc
- **Viscosity**: Low viscosity comparable to water (water = 1 cST. @ 20°C)
- **Percent volatile**: 96 %
- **Other data**: Density: 8.44 lb/gal

10. Chemical Stability & Reactivity Information

- **Chemical stability**: Material is stable under normal conditions.
- **Conditions to avoid**: Reacts violently with strong acids. This product may react with oxidizing agents. Do not mix with other chemicals.
- **Incompatible materials**: Oxidizing agents.
- **Hazardous decomposition products**: Carbon oxides. Nitrogen oxides (NOx).
- **Possibility of hazardous reactions**: Hazardous polymerization does not occur.

11. Toxicological Information

- **Acute effects**: May be harmful if inhaled.
- **Local effects**: May irritate eyes and skin. May cause irritation of respiratory tract.
- **Chronic effects**: Hazardous by OSHA criteria. Prolonged inhalation may be harmful. Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood. Prolonged exposure may cause chronic effects.
- **Carcinogenicity**: Possible cancer hazard - may cause cancer based on animal data.
IARC Monographs. Overall Evaluation of Carcinogenicity
Coconut Fatty Acid Diethanolamide (CAS 68603-42-9) 2B Possibly carcinogenic to humans.

Skin corrosion/irritation Hazardous by OSHA criteria. Causes mild skin irritation.
Epidemiology No epidemiological data is available for this product.
Mutagenicity Not available.
Neurological effects Hazardous by OSHA criteria.
Reproductive effects Not available.
Symptoms and target organs Irritating to eyes, respiratory system and skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Further information Symptoms may be delayed.

12. Ecological Information

Ecotoxicity Not expected to be harmful to aquatic organisms.
Environmental effects An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Aquatic toxicity May cause long-term adverse effects in the aquatic environment.
Persistence and degradability Expected to biodegrade.
Bioaccumulation / Accumulation

13. Disposal Considerations

Waste codes D002: Waste Corrosive material [pH <=2 or =>12.5, or corrosive to steel]
Disposal instructions This material and its container must be disposed of as hazardous waste. Do not discharge into drains, water courses or onto the ground. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations. When your own wastewater treatment plant is not available, collect entire waste and then charge to a licensed industrial waste management professional with manifests for industrial waste.

Waste from residues / unused products Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Avoid discharge into water courses or onto the ground.
Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport Information

General This material is not regulated by any mode of transportation.
DOT Not regulated as dangerous goods.
IATA Not regulated as dangerous goods.
IMDG Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number Not listed.
Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c)) Not regulated.
DEA Exempt Chemical Mixtures Code Number Not regulated.
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not regulated.
CERCLA (Superfund) reportable quantity None
### Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories**
- Immediate Hazard - Yes
- Delayed Hazard - Yes
- Fire Hazard - No
- Pressure Hazard - No
- Reactivity Hazard - No

**SARA 302 Extremely hazardous substance**
No

**SARA 311/312 Hazardous chemical**
No

### State regulations

**US - New Jersey RTK - Substances: Listed substance**
Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8) Listed.

**US. Massachusetts RTK - Substance List**
Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8)

**US. Pennsylvania RTK - Hazardous Substances**
Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8) Listed.

**US. Rhode Island RTK**
Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8)

### 16. Other Information

**Further information**
HMIS® is a registered trade and service mark of the NPCA.

**HMIS® ratings**
- Health: 1
- Flammability: 0
- Physical hazard: 0

**NFPA ratings**
- Health: 1
- Flammability: 0
- Instability: 0

**Disclaimer**
The information in the sheet was written based on the best knowledge and experience currently available.