LPS

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product identifier LPS® Precision Clean (Concentrate)

Version # 03

 Issue date
 12-11-2012

 Revision date
 04-03-2014

 Supersedes date
 04-01-2014

 CAS #
 Mixture

Part Number C02701, C02705, C02755

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, Georgia 30084

United States www.lpslabs.com

1-800-241-8334/ 770-243-8800 Chemtrec 1-800-424-9300

Supplier Not available.

2. Hazards Identification

Emergency overview WARNING

Harmful if absorbed through skin. Causes skin and eye irritation.

Potential health effects

Routes of exposure Eye contact. Skin contact. Inhalation. Ingestion. **Eyes** Avoid contact with eyes. May irritate eyes.

Skin Avoid contact with the skin. May cause skin irritation. Frequent or prolonged contact may defat and

dry the skin, leading to discomfort and dermatitis.

InhalationDo not breathe dust/fume/gas/mist/vapors/spray. May cause irritation of respiratory tract.IngestionDo not ingest. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Signs and symptoms Irritant effects. Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Potential environmental effects

Ecological injuries are not known or expected under normal use.

3. Composition / Information on Ingredients

Components	CAS#	Percent
DIPROPYLENE GLYCOL METHYL ETHER	34590-94-8	1 - 5
SODIUM METASILICATE	6834-92-0	1 - 5
Tetrapotassium pyrophosphate	7320-34-5	1 - 5

4. First Aid Measures

First aid procedures

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. If a contact lens is present, DO

NOT delay irrigation or attempt to remove the lens. Continue rinsing. Get medical attention if

irritation develops and persists.

Skin contact Remove and isolate contaminated clothing and shoes. Wash off immediately with soap and plenty

of water. Get medical attention if irritation develops and persists. For minor skin contact, avoid

spreading material on unaffected skin.

Inhalation Move to fresh air. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if

victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention, if needed.

Material name: LPS® Precision Clean (Concentrate)

Rinse mouth thoroughly. Never give anything by mouth to a victim who is unconscious or is having Ingestion

convulsions. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If ingestion of a large

amount does occur, call a poison control center immediately.

Notes to physician

In case of shortness of breath, give oxygen. Symptoms may be delayed.

General advice

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

5. Fire Fighting Measures

Flammable properties

Not flammable by WHMIS criteria.

Extinguishing media

Suitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing

media

None known.

Protection of firefighters

Protective equipment for

firefiahters

Firefighters should wear full protective clothing including self contained breathing apparatus.

Fire fighting

equipment/instructions

Explosion data

Sensitivity to static

discharge

Sensitivity to mechanical

impact

None known.

Not available.

None known.

Hazardous combustion

products

Not available.

6. Accidental Release Measures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Do not touch **Personal precautions**

damaged containers or spilled material unless wearing appropriate protective clothing. For

personal protection, see section 8 of the MSDS.

Environmental precautions

Do not contaminate water.

Methods for containment

Stop leak if you can do so without risk. Dike the spilled material, where this is possible. Prevent

entry into waterways, sewer, basements or confined areas.

Methods for cleaning up

Should not be released into the environment. This product is miscible in water.

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. 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 to original containers for re-use. Clean up in accordance with all applicable

regulations. For waste disposal, see section 13 of the MSDS.

Other information Clean up in accordance with all applicable regulations.

7. Handling and Storage

Avoid contact with skin. Avoid contact with eyes. Avoid prolonged exposure. When using do not Handling

eat or drink. Do not use in areas without adequate ventilation. Wear personal protective

equipment. Wash thoroughly after handling. Avoid release to the environment.

Store in a closed container away from incompatible materials. Store away from incompatible **Storage**

materials (see Section 10 of the MSDS). Keep out of the reach of children. Use care in

handling/storage.

Material name: LPS® Precision Clean (Concentrate)

8. Exposure Controls / Personal Protection

US. ACGIH Threshold Limit Values Components	Туре	Value
DIPROPYLENE GLYCOL METHYL ETHER (CAS 34590-94-8)	STEL	150 ppm
,	TWA	100 ppm
Canada. Alberta OELs (Occupational F	lealth & Safety Code, Sc	hedule 1, Table 2)
Components	Туре	Value
DIPROPYLENE GLYCOL METHYL ETHER (CAS 34590-94-8)	STEL	909 mg/m3
		150 ppm
	TWA	606 mg/m3
		100 ppm
		s for Chemical Substances, Occupational Health and
Safety Regulation 296/97, as amended Components) Type	Value
-		
DIPROPYLENE GLYCOL METHYL ETHER (CAS 34590-94-8)	STEL	150 ppm
,	TWA	100 ppm
Canada. Manitoba OELs (Reg. 217/200	6, The Workplace Safety	And Health Act)
Components	Туре	Value
DIPROPYLENE GLYCOL METHYL ETHER (CAS 34590-94-8)	STEL	150 ppm
3.000 3.00	TWA	100 ppm
Canada. Ontario OELs. (Control of Exp	osure to Biological or C	hemical Agents)
Components	Туре	Value
DIPROPYLENE GLYCOL METHYL ETHER (CAS 34590-94-8)	STEL	150 ppm
04000 04 0)	TWA	100 ppm
Canada. Quebec OELs. (Ministry of La Components	bor - Regulation Respec Type	ting the Quality of the Work Environment) Value
DIPROPYLENE GLYCOL METHYL ETHER (CAS 34590-94-8)	STEL	909 mg/m3
·		150 ppm
	TWA	606 mg/m3
		100 ppm
US. OSHA Table Z-1 Limits for Air Con	•	•
Components	Туре	Value
DIPROPYLENE GLYCOL METHYL ETHER (CAS 34590-94-8)	PEL	600 mg/m3
,		100 ppm
ogical limit values No biolog	ical exposure limits noted	for the ingredient(s).
ogical lillit values 140 blolog		
osure guidelines	•	

DIPROPYLENE GLYCOL METHYL ETHER (CAS

34590-94-8)

Can be absorbed through the skin.

Canada - British Columbia OELs: Skin designation

DIPROPYLENE GLYCOL METHYL ETHER (CAS Can be absorbed through the skin.

34590-94-8)

Canada - Manitoba OELs: Skin designation

DIPROPYLENE GLYCOL METHYL ETHER (CAS Can be absorbed through the skin.

34590-94-8)

Canada - Ontario OELs: Skin designation

DIPROPYLENE GLYCOL METHYL ETHER (CAS Can be absorbed through the skin.

34590-94-8)

Canada - Quebec OELs: Skin designation

DIPROPYLENE GLYCOL METHYL ETHER (CAS Can be absorbed through the skin.

34590-94-8)

Canada - Saskatchewan OELs: Skin designation

34590-94-8)

US ACGIH Threshold Limit Values: Skin designation

DIPROPYLENE GLYCOL METHYL ETHER (CAS Can be absorbed through the skin.

34590-94-8)

Engineering controlsGood general ventilation (typically 10 air changes per hour) should be used. Ventilation rates

should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Ensure

adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). Eye wash fountain is recommended.

Skin protection Wear suitable protective clothing. Wear protective gloves.

Respiratory protection Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release,

exposure levels are not known, or any other circumstances where air-purifying respirators may not

provide adequate protection.

9. Physical & Chemical Properties

Appearance

Physical state Liquid.
Form Liquid.

Color Greenish-blue.

Odor Citrus

Odor threshold Not available.

pH 13

Vapor pressure < 17 mm Hg @20°C

Vapor density > 1

Boiling point212 °F (100 °C)Melting point/Freezing pointNot available.Solubility (water)100 % (in water)

Specific gravity 1.06

Relative density Not available.

Flash point None

Flammability limits in air,

upper, % by volume

Not Established

Flammability limits in air,

lower, % by volume

Not Established

Auto-ignition temperature Not available.

VOC 1.5 % per U.S. State and Federal Consumer Product Regulations

Evaporation rate 1 BuAc Percent volatile > 90 %

Partition coefficient (n-octanol/water)

Not available.

Other data

Density 8.87 lb/gal

10. Chemical Stability & Reactivity Information

Reactivity Reacts violently with strong acids. This product may react with oxidizing agents.

Chemical stability Material is stable under normal conditions.

Conditions to avoidDo not mix with other chemicals. Contact with incompatible materials.

Incompatible materials Acids. Strong oxidizing agents. Oxidizing agents.

Hazardous decomposition

products

Carbon oxides. Nitrogen oxides (NOx).

Possibility of hazardous Reacts violently with strong acids. This product may react with oxidizing agents. Hazardous

reactions polymerization does not occur.

11. Toxicological Information

Toxicological data

Components	Species	Test Results
DIPROPYLENE GLYCOL M	ETHYL ETHER (CAS 34590-94-8)	
Acute		
Dermal		
LD50	Rabbit	10 ml/kg
		9.5 g/kg
	Rat	> 19020 mg/kg
		> 20 ml/kg
Inhalation		
LC50	Rat	> 275 ppm
Oral		
LD50	Dog	7.5 ml/kg
	Rat	> 5000 mg/kg
		5.4 ml/kg
SODIUM METASILICATE (0	CAS 6834-92-0)	
Acute		
Dermal		
LD50	Rat	> 5000 mg/kg
Inhalation		
LC50	Rat	> 2.06 mg/l
Oral		
LD50	Mouse	661.5 - 896.3 mg/kg
	Rat	600 mg/kg
Tetrapotassium pyrophosph	ate (CAS 7320-34-5)	
Acute		
Dermal		
LD50	Rabbit	> 300 mg/kg
	Rat	> 2000 mg/kg
Inhalation		
LC50	Rat	> 0.58 mg/l
Oral		
LD100	Rat	<= 5000 mg/kg
LD50	Mouse	2.3 g/kg
	Rat	300 - 2000 mg/kg

Material name: LPS® Precision Clean (Concentrate)

Components Species Test Results

Other LD50

Rat

233 mg/kg

Acute effects Based on available data, the classification criteria are not met.

Sensitization Not classified.

Local effects Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic effects Prolonged or repeated contact may cause drying, cracking, or irritation.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation Causes serious eye irritation.

Mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Reproductive effects This product is not expected to cause reproductive or developmental effects.

TeratogenicityNo data available for this product. **Synergistic materials**No data available for this product.

12. Ecological Information

Ecotoxicological data

No ecotoxicity data noted

for the ingredient(s).

Ecotoxicity Contains a substance which causes risk of hazardous effects to the environment.

Environmental effects An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Aquatic toxicity Not available.

Mobility in environmental

media

This product is miscible in water.

13. Disposal Considerations

Disposal instructionsCollect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Dispose in accordance with all applicable

regulations.

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).

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

TDG

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. Regulatory Information

Canadian regulations This product has been classified in accordance with the hazard criteria of the CPR and the MSDS

contains all the information required by the CPR.

WHMIS status Controlled

WHMIS classification D2B - Other Toxic Effects-TOXIC

WHMIS labeling



16. Other Information

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Prepared by

This data sheet contains changes from the previous version in section(s):

Not available.

Physical & Chemical Properties: Multiple Properties