



Chemical Name: Layout Fluid Remover

Manufacturer: Lawson

Container size: 14oz.

Location: VLA

Disposal: Place empty container in trash.

Material Safety Data Sheet

Revision Date 12-Mar-2010

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product code 92826
Product name Layout Fluid Remover
Recommended Use Solvent

Supplier Lawson Products, Inc.
1666 East Touhy Avenue
Des Plaines, IL 60018
(847)-827-9666

Emergency telephone number (888) 426-4851

2. HAZARDS IDENTIFICATION

Emergency Overview
Flammable. Irritant.

Aggravated Medical Conditions
None Known.

Principal Routes of Exposure
Inhalation. Eyes. Skin contact.

Potential health effects

Eyes Irritation. Redness. Prolonged or repeated exposure may cause . Itching. Burning sensation.

Skin Repeated or prolonged exposure may cause:. Skin Irritation. Redness. Itching. Burning sensation.

Inhalation Repeated or prolonged exposure may cause the following effects. Headaches. Dizziness. Nausea. Upper respiratory tract irritation. Central nervous system effects. Loss of coordination. Extreme overexposure may cause. Possible unconsciousness. Death. Misuse by deliberately concentrating vapors and inhaling contents can be harmful or fatal.

Ingestion May be harmful if swallowed.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Propane	74-98-6	7-13
Toluene	108-88-3	30-60
Isopropyl alcohol	67-63-0	7-13
Acetone	67-64-1	5-10
n-Butyl acetate	123-86-4	10-30

4. FIRST AID MEASURES

Eye contact Flush with plenty of water for at least 15 minutes. Seek medical attention.

Skin contact Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use.

Ingestion Do not induce vomiting. Immediate medical attention is required.

Inhalation Remove from exposure. Restore breathing. Keep warm and quiet. Contact physician if breathing difficulty develops.

5. FIRE FIGHTING MEASURES

Flash point °C < -17
Flash point °F < 0
Method No information available

Autoignition temperature °C No data available
Autoignition temperature °F

Flammability Limits (% in Air)
Upper 12.8
Lower 1.0

Specific Information for Aerosol Products

Flame extension Unknown
Flashback Unknown

Suitable extinguishing media
Carbon dioxide (CO2). Dry chemical. Foam.

Special protective equipment for firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Special Fire-Fighting Procedures
Avoid breathing of vapors. Avoid skin and eye contact. Water spray may be ineffective. If water is used, fog nozzles are preferable . Water should be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Specific hazards
Keep product and empty container away from heat and sources of ignition. In the event of fire and/or explosion do not breathe fumes.

Fire and Explosion Hazards
During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention. Water spray may be ineffective. If water is used, fog nozzles are preferable. Firefighters should wear NIOSH/MSHA approved (or equivalent) self-contained pressure-demand breathing apparatus and full protective clothing.

Sensitivity to shock
No information available.

Sensitivity to static discharge
No information available.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions**

Use personal protective equipment.

Methods for cleaning up

Eliminate all sources of ignition. Ventilate area to maintain exposure below permissible exposure limits. Soak up with inert absorbent material.

7. HANDLING AND STORAGE**Handling**

Keep in a well-ventilated place. Turn off other sources of ignition prior to use and until all vapors have dissipated. Vapors may accumulate readily and may ignite explosively. Remove all sources of ignition. Keep away from open flame. Do not smoke. Check to make sure that all equipment is properly grounded and installed to satisfy electrical classification requirements. Contents under pressure. Do not puncture or incinerate. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Avoid breathing vapors or mists. Keep out of reach of children.

Storage

Store in temperatures below 120 degrees F.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	OSHA PEL (TWA)	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Toluene	200 ppm	300 ppm	20 ppm	-
n-Butyl acetate	150 ppm 710 mg/m ³	-	150 ppm	200 ppm
Isopropyl alcohol	400 ppm 980 mg/m ³	-	200 ppm	400 ppm
Propane	1000 ppm 1800 mg/m ³	-	1000 ppm	-
Acetone	1000 ppm 2400 mg/m ³	-	500 ppm	750 ppm

Ventilation and Environmental Controls

Adequate ventilation should be provided to keep exposure levels below current acceptable exposure limits. Local: recommended. General: as necessary.

Hygiene measures

Wash hands before breaks and immediately after handling the product.

Other precautions

Avoid contact with the skin and the eyes.

Respiratory protection

If the exposure limits are exceeded, a NIOSH/MSHA approved respirator is recommended.

Hand Protection

Gloves are not required in normal use. The following gloves are recommended for prolonged or repeated contact: . Chemical resistant gloves.

Eye protection

Wear safety glasses with side shields.

Skin and body protection

None necessary under normal conditions

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Aerosol
Color	Colorless
Odor	No information available
Odor Threshold	No information available
pH	No data available
Specific Gravity	0.80
Vapor pressure	No data available
Density	6.63 lbs/gal
Vapor density	>Air
Evaporation Rate	>1 (ether = 1)
Water solubility	No data available
VOC Content	93.00
Partition Coefficient (n-octanol/water)	No data available
Boiling point/range °C	< -18 - 128
Boiling point/range °F	< 0 - 264
Melting point/range °C	No data available
Melting point/range °F	No data available
Flash point °C	< -17
Flash point °F	< 0

10. STABILITY AND REACTIVITY**Stability**

Stable.

Conditions to avoid

None known.

Incompatibility

None.

Hazardous Decomposition Products

Carbon dioxide. Carbon monoxide.

Polymerization

Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION**Component Information**

Chemical Name	LD50 (oral, rat)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat)
<i>Toluene</i> 108-88-3	636 mg/kg	12124 mg/kg 8390 mg/kg	12.5 mg/L 26700 ppm
<i>n-Butyl acetate</i> 123-86-4	10768 mg/kg	17600 mg/kg	390 ppm
<i>Isopropyl alcohol</i> 67-63-0	4396 mg/kg	12800 mg/kg 12870 mg/kg	72.6 mg/L
<i>Propane</i> 74-98-6	-	-	658 mg/L
<i>Acetone</i> 67-64-1	5800 mg/kg	-	-

Synergistic Products None known**Specific Hazards** Reports have associated repeated and prolonged occupational exposure to solvents with permanent brain damage.**Potential health effects****Sensitization** None known**Chronic toxicity** None known**Mutagenic effects** None known**Teratogenic effects** None known**Reproductive toxicity** None known**Target Organ Effects** Long term exposure to vapor may cause liver damage. May cause damage to blood. Urinary system. Cardiovascular system.**Carcinogenic effects** See table below

Chemical Name	ACGIH OEL - Carcinogens	IARC	NTP - Known Carcinogens	NTP - Suspected Human Carcinogens	OSHA RTK Carcinogens
Toluene	Listed	Not Listed	Not Listed	Not Listed	Not Listed
n-Butyl acetate	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Isopropyl alcohol	Listed	Not Listed	Not Listed	Not Listed	Not Listed
Propane	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Acetone	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

12. ECOLOGICAL INFORMATION**Toluene****Microtox Data***Photobacterium phosphoreum* EC50=19.7 mg/L (30 min)**Water Flea Data***water flea* hEC50 48 (11.3 mg/L)*water flea* hEC50 48 (310 mg/L)*Daphnia magna* hEC50 48 (11.3 mg/L)*water flea* hEC50 48 (11.3 mg/L)**n-Butyl acetate****Microtox Data***Photobacterium phosphoreum* EC50=70.0 mg/L (5 min)*Photobacterium phosphoreum* EC50=82.2 mg/L (15 min)*Pseudomonas putida* EC50=959 mg/L (18 h)*Photobacterium phosphoreum* EC50=98.9 mg/L (30 min)**Water Flea Data***water flea* hEC50 48 (44 mg/L)**Isopropyl alcohol****Microtox Data***Photobacterium phosphoreum* EC50=35390 mg/L (5 min)**Water Flea Data***Daphnia magna* hEC50 48 (13299 mg/L)**Acetone****Microtox Data***Photobacterium phosphoreum* EC50=14500 mg/L (15 min)**Water Flea Data***water flea* hEC50 48 (0.0039 mg/L)*water flea* hEC50 48 (12700 mg/L)*Daphnia magna* hEC50 48 (12600 mg/L)*water flea* hEC50 48 (0.0039 mg/L)**13. DISPOSAL CONSIDERATIONS****Disposal Information**

Do not puncture or incinerate. Depressurize before disposal. Waste must be tested for ignitability to determine EPA hazardous waste numbers.

Waste from residues / unused products

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

14. TRANSPORTATION INFORMATION**DOT**

UN1950 Aerosols, flammable, 2.1

Exception: (Flammable Liquids PG II not more than 1.0L) Consumer Commodity ORM-D**TDG**

UN1950 AEROSOLS, flammable, 2.1

IMDG/IMO

UN1950 Aerosols, flammable, 2.1

IATA

UN1950 Aerosols, flammable, 2.1

MEX

UN1950 Aerosols, flammable, 2.1

Product code **92826**Product name **Layout Fluid
Remover**

15. REGULATORY INFORMATION

Chemical Name	US EPA SARA 313 Emission Reporting
Toluene	Listed
Isopropyl alcohol	Listed

Chemical Name	New Jersey - RTK	Pennsylvania - RTK	California Prop. 65
Toluene	Listed	Listed	Development al
n-Butyl acetate	Listed	Listed	Not Listed
Isopropyl alcohol	Listed	Listed	Not Listed
Propane	Listed	Listed	Not Listed
Acetone	Not Listed	Not Listed	Not Listed

Chemical Name	EINECS	DSL	NDSL	TSCA
Toluene	X	X	-	X
n-Butyl acetate	X	X	-	X
Isopropyl alcohol	X	X	-	X
Propane	X	X	-	X
Acetone	X	X	-	X

CPR

This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all of the information required by the Controlled Product Regulations

16. OTHER INFORMATION**HMIS**

Health - 2
Flammability - 4
Physical Hazard - 0

Prepared By H. Buck, Regulatory Affairs Manager

The information accumulated herein is believed to be accurate, but is not warranted to be, whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.