

Material Safety Data Sheet

Revision Date 12-Mar-2010

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product code P90110
Product name COIL CLEANER 18-1/4 OZ NW
Recommended Use Degreaser / Cleaner

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

Vapors irritating to eyes and respiratory tract. Vapors may cause flash fire or explosion.

Aggravated Medical Conditions

None Known.

Principal Routes of Exposure

Eyes. Skin contact. Skin absorption. Inhalation. Ingestion.

Potential health effects

- Eyes** May cause the following effects: Irritation. Pain. Tearing. Reddening. Swelling. Stinging sensation. Feeling like that of fine dust in the eye.
- Skin** Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product. Defatting. Chronic exposure causes drying effect on the skin .
- Inhalation** Repeated or prolonged exposure may cause the following effects. Headaches. Dizziness. Nausea. Decreased blood pressure. Changes in heart rate. Cyanosis. Extreme overexposure may cause. Central nervous system damage. Lung damage. Kidney damage. Harmful by inhalation.
- Ingestion** Harmful or fatal if swallowed. Repeated or prolonged exposure may cause: Central nervous system damage.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
1-Butoxy-2-propanol	5131-66-8	3-7
Propane/Isobutane/N-Butane	68476-86-8	7-13

4. FIRST AID MEASURES

- Eye contact** Flush eyes immediately with large amounts of water. Seek medical attention if irritation persists.
- Skin contact** Wash off immediately with plenty of water. Remove and wash contaminated clothing before re-use. Seek medical attention.
- Ingestion** Seek medical attention immediately. Do not induce vomiting. Give victim a glass of water or milk. Contact physician or poison control center immediately. Do not give anything by mouth to an unconscious person.
- Inhalation** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention immediately.

5. FIRE FIGHTING MEASURES

Flash point °C -104
Flash point °F -156
Method Pensky-Martens C.C.

Autoignition temperature °C Not Applicable
Autoignition temperature °F Not Applicable

Flammability Limits (% in Air)

Upper 9.5
Lower 1.1

Suitable extinguishing media

Alcohol foam. Carbon dioxide (CO₂). Dry chemical. Foam. Water fog.

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.

Fire and Explosion Hazards

Vapors are heavier than air and may travel along the ground to an ignition source distant from material handling area. Possible ignition sources include pilot lights, flames, lighted cigarettes, heating elements, electric motors, sparks from electrical switches. Flash back possible over considerable distance. Empty containers contain residue and/or vapors. Do not weld, cut, pressurize, braze, solder, drill, grind, or expose such containers to heat, sparks, flame, static electricity, or other sources of ignition. They may explode and cause injury or death.

Sensitivity to shock

No information available.

Sensitivity to static discharge

No information available.

6. ACCIDENTAL RELEASE MEASURES

Product code **P90110**

Product name **COIL
CLEANER 18-1/4 OZ NW**

6. ACCIDENTAL RELEASE MEASURES

Methods for cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Place in non-leaking, tightly sealed container for proper disposal.

7. HANDLING AND STORAGE

Handling

Keep in a well-ventilated place. Thoroughly wash hands and exposed skin after handling. Wash hands with soap and water before eating, drinking, smoking, or using toilet facilities. Use only according to label directions. Handle empty containers as if they were full. Avoid breathing vapors. Avoid contact with skin, eyes and clothing.

Storage

Keep away from heat. Keep away from open flames, hot surfaces and sources of ignition. Do not freeze.

NFPA Storage Code

Store as Level 1 Aerosol (NFPA 30B)

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	OSHA PEL (TWA)	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Propane/Isobutane/N-Butane	-	-	-	N/D
1-Butoxy-2-propanol	-	-	-	-

Ventilation and Environmental Controls

Use enough ventilation, local exhaust at the work area, general, or both, to keep below the TLV's in the worker's breathing zone and the general area.

Hygiene measures

Avoid contact with skin, eyes and clothing. Wash hands before eating or using the washroom. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice.

Respiratory protection

Wear a NIOSH approved organic canister respirator. Protection provided by air purifying respirators is limited. Use a positive pressure supplied air respirator, if there is any potential for an uncontrolled release, where exposure levels are not known. Seek professional advise prior to respirator selection and use.

Hand Protection

Chemical resistant gloves. Consult glove manufacturer to determine the proper type for a specific operation.

Eye protection

Use safety eyewear designed to protect against splash of liquids.

Skin and body protection

Wear appropriate clothing to minimize skin contact. Rubber or plastic boots.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Aerosol
Color	Clear Light yellow
Odor	Mint-like
Odor Threshold	Not Applicable
pH	10
Specific Gravity	0.9432
Vapor pressure	1603mmHg
Vapor density	>1 (Air = 1)
Evaporation Rate	>1 (Butyl Acetate = 1)
Water solubility	Soluble in water
VOC Content	7.0%; 68 g/l; 0.57 lbs/gal
Partition Coefficient (n-octanol/water)	Not Applicable
Boiling point/range °C	-41-140
Boiling point/range °F	-43-284
Melting point/range °C	0
Melting point/range °F	32
Flash point °C	-104
Flash point °F	-156

10. STABILITY AND REACTIVITY

Stability

Stable under recommended storage conditions.

Conditions to avoid

Contact with ignition sources, hot-glowing surfaces, electrical arcs, sparks, and open flame.

Incompatibility

Strong acids. Oxidizers. Amines. Alkalis.

Hazardous Decomposition Products

Carbon oxides. Nitrogen oxides (NOx). Chloride. Chlorine. phosgene.

Polymerization

Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Component Information

Chemical Name	LD50 (oral, rat)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat)
Propane/Isobutane/N-Butane 68476-86-8	-	-	-
1-Butoxy-2-propanol 5131-66-8	5660 µL/kg	3100 mg/kg	-

Synergistic Products

None known

Potential health effects

Sensitization

None known .

Product code **P90110**

Product name **COIL
CLEANER 18-1/4 OZ NW**

Chronic toxicity See Section 2 .

Mutagenic effects None known .

Teratogenic effects None known .

Reproductive toxicity None known .

Target Organ Effects None Known.

Carcinogenic effects See table below

1-Butoxy-2-propanol	Not Listed	Not Listed	Not Listed
---------------------	------------	------------	------------

Chemical Name	EINECS	DSL	NDSL	TSCA
Propane/Isobutane/N-Butane	X	X	-	X
1-Butoxy-2-propanol	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

Michael Katz, Regulatory Affairs Specialist

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.

Chemical Name	ACGIH OEL - Carcinogens	IARC	NTP - Known Carcinogens	NTP - Suspected Human Carcinogens	OSHA RTK Carcinogens
Propane/Isobutane/N-Butane	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
1-Butoxy-2-propanol	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

12. ECOLOGICAL INFORMATION

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products

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

14. TRANSPORTATION INFORMATION

DOT

UN1950 Aerosols, flammable, 2.1

Exception: (Compressed Gas 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

15. REGULATORY INFORMATION

Chemical Name	New Jersey - RTK	Pennsylvania - RTK	California Prop. 65
Propane/Isobutane/N-Butane	Not Listed	Not Listed	Not Listed