

Chemical Name: Battery Cleaner and Acid Detector

Manufacturer: Lawson

Container size: 15oz.

Location: VLA

Disposal: Place empty container in trash. Give partial or full container to safety officer.



Material Safety Data Sheet

Revision Date 08-Feb-2011

1. CHE	1. CHEMICAL PRODUCT AND COMPANY INFORMATION			
Product code Product name Recommended Us	e	89153 Battery Cleaner & Acid Leak Detector 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 Contents under pressure. Irritant. Aggravated Medical Conditions				
None Known				
	Principal Routes of Exposure Skin contact. Inhalation. Eyes.			
Potential health ef	fects			
Eyes	s Exposure to vapors may cause the following effects:. Irritation. Reddening. Burning sensation.			
Skin	Repeated or prolonged exposure may cause:. Skin Irritation. Redness. Itching. Burning sensation.			
Inhalation	Exposure to vapors may cause the following effects. Irritating to respiratory system. Headaches. Dizziness. Nausea. Loss of coordination. Extreme overexposure may cause. Central nervous system depression. 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	1-5
Butane	106-97-8	5-10
Isopropyl alcohol	67-63-0	5-10

Ethylene or	kide	75-21-8	<0.0001		
	4. FIRST A	AID MEASURE	ES		
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. Seek medical attention if irritation persists.				
Ingestion		ice vomiting. Call anter immediately.	a physician or Poison		
Inhalation	Remove to fresh air. Restore breathing. Keep warm and quiet.				
5.		ITING MEASU			
J.	FIKE FIGE		JKE3		
Flash point °C Flash point °F Method Autoignition temj Autoignition temj		< -17.78 < 0 No informatior No data availa No data availa	ble		
Flammability Lim Upper Lower	its (% in Air)	12.7 1.9			
Specific Informat	ion for Aeroso	I Products			
Flame extensi Flashback	on	None None			
Suitable extingui Carbon dioxide (C		cal. Alcohol foam.			
Special protective As in any fire, wea MSHA/NIOSH (ap	r self-contained	I breathing appara	atus pressure-demand tective gear.		
Water spray may b	ent or burst und be ineffective. I	f water is used, fo	onged fire conditions. g nozzles are ntainers to prevent		

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 . During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

Product name Battery Cleaner & Acid Leak Detector

Sensitivity to shock

No information available.

Sensitivity to static discharge No information available.

6. ACCIDENTAL RELEASE MEASURES

Methods for cleaning up

Eliminate all sources of ignition. Ventilate area to maintain exposure below permissible exposure limits. Soak up with inert absorbent material. Dispose of absorbent in accordance with local, state and federal regulations.

7. HANDLING AND STORAGE

Handling

Keep away from open flames, hot surfaces and sources of ignition. Vapors may accumulate readily and may ignite explosively. Ensure adequate ventilation. Do not smoke. Turn off other sources of ignition prior to use and until all vapors have dissipated. Do not puncture or incinerate. Do not take internally. Keep out of reach of children. Check to make sure that all equipment is properly grounded and installed to satisfy electrical classification requirements. Standard safety precautions should be observed when handling this material.

Storage

Containers exposed to extreme heat may burst. Keep away from heat and sources of ignition. Store in temperatures below 120 degrees F. Keep away from direct sunlight. Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	OSHA PEL (TWA)	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Butane	800 ppm	-	1000 ppm	-
lsopropyl alcohol	400 ppm 980 mg/m ³	-	200 ppm	400 ppm
Propane	1000 ppm 1800 mg/m ³	-	1000 ppm	-
Ethylene oxide	1 ppm	-	1 ppm	-

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. Use in a well ventilated area.

Hygiene measures

Wash hands before eating or using the washroom. Remove and wash contaminated clothing before re-use. Avoid contact with skin, eyes and clothing.

Respiratory protection

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

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 Color Odor **Odor Threshold** pН **Specific Gravity** Vapor pressure Density Vapor density **Evaporation Rate** Water solubility **VOC Content Partition Coefficient** (n-octanol/water) Boiling point/range °C Boiling point/range °F Melting point/range °C Melting point/range °F Flash point °C Flash point °F

Aerosol Colorless No information available No information available 7.0 0.93 No data available 7.71 lb/gal; 923 g/l >Air >1 (Ether =1) No data available 15.90% No data available < -18 - 100 < 0 - 213 No data available No data available

10. STABILITY AND REACTIVITY

< -17.78

< 0

Stability Stable.

Conditions to avoid None known.

Incompatability None known.

Product name Battery Cleaner & Acid Leak Detector

Hazardous Decomposition Products

Carbon dioxide. Carbon monoxide.

Polymerization Will not occur.

11. TOXICOLOGICAL INFORMATION

Component Information

Chemical Name	LD50 (oral,rat)	LD50 (dermal,rat/rabbi t)	LC50 (inhalation,rat)
Butane 106-97-8	-	-	658 mg/L
Isopropyl alcohol 67-63-0	4396 mg/kg	12800 mg/kg 12870 mg/kg	72.6 mg/L
Propane 74-98-6	-	-	658 mg/L
Ethylene oxide 75-21-8	72 mg/kg	-	-

None known

Synergistic Products

Potential health effects

Sensitization	None known
Chronic toxicity	See Section 2.
Mutagenic effects	None known
Teratogenic effects	None known
Reproductive toxicity	None known
Target Organ Effects	See Section 2. Reports have associated prolonged overexposure to solvents with permanent brain and nervous system damage.

Carcinogenic effects

See table below

Chemical Name	ACGIH OEL - Carcinoge ns	IARC	NTP - Known Carcinoge ns	NTP - Suspected Human Carcinoge ns	OSHA RTK Carcinoge ns
Butane	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
lsopropyl alcohol	Listed	Not Listed	Not Listed	Not Listed	Not Listed
Propane	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Ethylene oxide	Listed	Group 1	Listed	Not Listed	Listed

12. ECOLOGICAL INFORMATION

Isopropyl alcohol

Microtox Data

Photobacterium phosphoreum EC50=35390 mg/L (5 min) Water Flea Data Daphnia magna hEC50 48 (13299 mg/L) Ethylene oxide Water Flea Data Daphnia magna hEC50 48 (137 mg/L)

13. DISPOSAL CONSIDERATIONS

Disposal Information

As supplied, this product is a RCRA Hazardous Waste . Waste must be tested for ignitability to determine EPA hazardous waste numbers. Do not puncture or incinerate. Depressurize before disposal. Dispose in accordance with federal, state, and local regulations.

14. TRANSPORTATION INFORMATION

DOT

Consumer commodity, ORM-D

TDG

Consumer commodity, ORM-D

15. REGUL	ATORY IN	FORMATION
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US EPA SARA 313

Chemical Name	US EPA SARA 313 Emission Reporting
Isopropyl alcohol	Listed
Ethylene oxide	Listed

Chemical Name	CERCLA/SARA 302 TPQ
Ethylene oxide	\$1000 lb, TPQ

State Regulations

Chemical Name	New Jersey - RTK	Pennsylvania - RTK	California Prop. 65
Butane	Listed	Listed	Not Listed
Isopropyl alcohol	Listed	Listed	Not Listed
Propane	Listed	Listed	Not Listed
Ethylene oxide	Listed	Listed	Carcinogen
-			Female
			Reproductive
			Reproductive

Chemical Name	Туре	
Ethylene oxide - 75-21-8	Female Reproductive	

WARNING: This product contains a chemical(s) known to the state of California to cause birth defects or other reproductive harm

Product name Battery Cleaner & Acid Leak Detector

International Inventories

Chemical Name	EINECS	DSL	NDSL	TSCA
Butane	Х	Х	-	Х
Isopropyl alcohol	Х	Х	-	Х
Propane	Х	Х	-	Х
Ethylene oxide	Х	Х	-	Х

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 - 2 Physical Hazard - 0

Prepared By

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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.