

Issue date 18-May-2018

Revision date 25-Aug-2022

Revision Number 5

1. IDENTIFICATION

Product identification

Product identifier	Lawson Battery and Terminal Cleaner
Other means of identification	19913
Recommended use	Cleaner
Restrictions on use	Not applicable

Supplier

Corporate Headquarters:
Lawson Products, Inc.
8770 W. Bryn Mawr Ave., Suite 900
Chicago, IL 60631
(866) 837-9908

Canadian Distribution Center:
Lawson Canada
7315 Rapistan Court
Mississauga, ON L5N 5Z4
(800) 323-5922

24 Hour Emergency Phone Number (888) 426-4851 (Prosar)

Website www.lawsonproducts.com

Methylene Chloride notification No Information Available

2. HAZARD(S) IDENTIFICATION

Hazard Classification This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), WHMIS 2015 and GHS Regulations.

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Gases under pressure	Liquefied Gas

Symbol



Signal word

WARNING

Hazard statements

H280 - Contains gas under pressure; may explode if heated
H319 - Causes serious eye irritation
H315 - Causes skin irritation

Precautionary statements

General	P101 - If medical advice is needed, have product container or label at hand P102 - Keep out of reach of children P103 - Read label before use.
Prevention	P251 - Pressurized container: Do not pierce or burn, even after use P264 - Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection.
Response	
General	P314 - Get medical advice/attention if you feel unwell.
Eyes	P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P337 + P313 - If eye irritation persists: Get medical advice/attention
Skin	P302 + P352 - IF ON SKIN: Wash with plenty of soap and water P332 + P313 - If skin irritation occurs: Get medical advice/attention P362 - Take off contaminated clothing and wash before reuse
Storage	P410 - Protect from sunlight P403 - Store in a well-ventilated place P412 - Do not expose to temperatures exceeding 50 °C/122 °F
Disposal	P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable
Hazard(s) Not Otherwise Classified (HNOC)	None known.
Physical Hazards Not Otherwise Classified (PHNOC)	None known.
Unknown acute toxicity	Not available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Composition Mixture.

Chemical name	CAS-No	Weight %
Propane	74-98-6	1-5
Butane	106-97-8	1-5
Isopropyl alcohol	67-63-0	1-5
2-Butoxyethanol	111-76-2	1-5

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or environment and hence require reporting in this section

4. FIRST-AID MEASURES**Necessary first-aid measures**

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention following exposure or if feeling unwell.
Ingestion	Avoid swallowing. If SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth thoroughly. Never give anything by mouth to a victim who

	is unconscious or is having 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 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.
Skin contact	Flush contaminated skin with plenty of water. Remove contaminated clothing and footwear. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Eye contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell.
Most important symptoms (acute)	No known significant effects or critical hazards.
Most important symptoms (over-exposure)	Adverse symptoms may include the following: eye pain, redness, and watering. Respiratory tract irritation. Coughing.
Indication of any immediate medical attention and special treatment needed	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. See section 11 for toxicological information.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Water spray. Water fog. Foam.
Unsuitable extinguishing media	None known.
Specific hazards	In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Bursting aerosol containers may be propelled from a fire at high speed. Hazardous Thermal Decomposition Products: Carbon dioxide. Carbon monoxide. metal oxide/oxides.
Special protective equipment for fire-fighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if you can do it without risk. Use water spray to keep fire-exposed containers cool. Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering the area. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in the hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information for 'non-emergency personnel'. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for containment and	Small Spill: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively,

cleaning up

or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large Spill: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry in sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Use spark-proof tools and explosion proof equipment. See section 1 for emergency contact information and section 13 for disposal information.

7. HANDLING AND STORAGE

Precautions for safe handling

Put on appropriate personal protective equipment (see section 8). Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not breathe vapors or spray mist. Do not take internally. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking, and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store away from direct sunlight in dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Protect from sunlight. Store locked up. Eliminate all sources of ignition. Use appropriate containment to avoid environmental contamination.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Chemical name	OSHA PEL (TWA)	California - PELs	ACGIH OEL (TWA)	NIOSH - TWA
Propane	1000 ppm TWA 1800 mg/m ³ TWA	1000 ppm PEL; 1800 mg/m ³ PEL		1000 ppm TWA 1800 mg/m ³ TWA 1000 ppm TWA 1800 mg/m ³ TWA
Butane	-	800 ppm PEL; 1900 mg/m ³ PEL		800 ppm TWA 1900 mg/m ³ TWA 1000 ppm TWA 1800 mg/m ³ TWA
Isopropyl alcohol	400 ppm TWA 980 mg/m ³ TWA	400 ppm PEL; 980 mg/m ³ PEL	200 ppm TWA	400 ppm TWA 980 mg/m ³ TWA
2-Butoxyethanol	50 ppm TWA 240 mg/m ³ TWA	20 ppm PEL; 97 mg/m ³ PEL	20 ppm TWA	5 ppm TWA 24 mg/m ³ TWA

Appropriate engineering controls

Ensure adequate ventilation. Use explosion-proof ventilation equipment.

Individual protection measures, such as personal protective equipment**Eye protection**

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: Safety glasses with side-shields.

Skin and body protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Wear protective gloves and protective clothing. Rubber gloves. Nitrile rubber. Neoprene gloves.
Respiratory protection	Use a properly fitted, air-purifying (Organic vapor) or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Canadian Province Occupational Exposure Limits

Chemical name	AB	BC	MB	NB	NL	NS	ON	PE	QC	SK
Propane	1000 ppm TWA 1640 mg/m ³ TWA	1000 ppm TWA	-	1000 ppm TWA 1640 mg/m ³ TWA	-	-	-	-	1000 ppm TWA 1800 mg/m ³ TWA 1000 ppm TWA 1640 mg/m ³ TWA	1000 ppm TWA 1000 ppm TWA
Butane	1000 ppm TWA 1640 mg/m ³ TWA	1000 ppm TWA	-	800 ppm TWA 1900 mg/m ³ TWA 1000 ppm TWA 1640 mg/m ³ TWA	-	-	-	-	800 ppm TWA 1900 mg/m ³ TWA 1000 ppm TWA 1640 mg/m ³ TWA	1000 ppm TWA 1000 ppm TWA 1000 ppm TWA
Isopropyl alcohol	200 ppm TWA 492 mg/m ³ TWA	200 ppm TWA	200 ppm TWA	400 ppm TWA 983 mg/m ³ TWA	200 ppm TWA	200 ppm TWA	200 ppm TWA	200 ppm TWA	400 ppm TWA 985 mg/m ³ TWA	200 ppm TWA
2-Butoxyethanol	20 ppm TWA 97 mg/m ³ TWA	20 ppm TWA	20 ppm TWA	25 ppm TWA 121 mg/m ³ TWA	20 ppm TWA	20 ppm TWA	20 ppm TWA	20 ppm TWA	20 ppm TWA	20 ppm TWA

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid
Color	Orange
Odor	Solvent
Odor threshold	Not available
pH	8-9
Melting point/range °C	Not available
Melting point/range °F	Not available
Boiling point/range °C	Not available
Boiling point/range °F	Not available

Flash point °F	120
Flash point method used	Pensky-Martens C.C.
Evaporation rate	No data available
Flammability (Solid, Gas)	Not available
Lower explosion limit	No data available
Upper explosion limit	No data available
Vapor pressure	13.5 kPa (101.325mm Hg) [at 20°C]
Vapor density	1(Air=1)
Relative density	1.0
Solubility	Soluble
Partition coefficient (n-octanol/water)	Not available
Autoignition temperature °C	Not available
Autoignition temperature °F	Not available
Decomposition temperature °C	Not available
Decomposition temperature °F	Not available
Viscosity	No data available
VOC	15.8 %

10. STABILITY AND REACTIVITY

Reactivity	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	Stable.
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	Avoid heat, sparks, and other sources of ignition.
Incompatible materials	Oxidizing agents. Acids.
Hazardous decomposition products	carbon oxides. Carbon dioxide (CO ₂).

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	Not available.
Symptoms	No known significant effects or critical hazards. Adverse symptoms may include the following: eye pain, redness, and watering. Respiratory tract irritation. Coughing. Ingestion may cause nausea or vomiting.
Delayed and immediate effects	May cause damage to organs through prolonged or repeated exposure.

as well as chronic effects from short and long-term exposure

Numerical measures of toxicity

Chemical name	Inhalation LC50:	Dermal LD50:	Oral LD50:
Propane	658 mg/L (Rat) 4h	-	-
Butane	30957 mg/m ³ (Rat) 4 h	-	-
Isopropyl alcohol	= 72600 mg/m ³ (Rato) 4 h	= 4059 mg/kg (Coelho)	= 1870 mg/kg (Rato)
2-Butoxyethanol	450 ppm Rat 486 ppm Rat	= 470 mg/kg Rat 435 mg/kg Rabbit	470 mg/kg Rat = 435 mg/kg Rabbit

ATEmix (dermal) Not available

ATEmix (oral) Not available

ATEmix (inhalation-gas) Not available

ATEmix (inhalation-vapor) Not available

ATEmix (inhalation-dust/mist) Not available

Carcinogenicity

Chemical name	ACGIH OEL - Carcinogens	IARC	OSHA Carcinogens	NTP
Propane	-	-	-	-
Butane	-	-	-	-
Isopropyl alcohol	A4	Group 1 Group 3	Present	-
2-Butoxyethanol	A3	Group 3	-	-

Canadian Province carcinogenicity limits

Chemical name	Alberta - Carcinogen	British Columbia - Carcinogen	Manitoba - Carcinogen	New Brunswick - Carcinogen	Nova Scotia - Carcinogen	Quebec - Carcinogen
Propane	-	-	-	-	-	-
Butane	-	-	-	-	-	-
Isopropyl alcohol	-	-	ACGIH A4	-	ACGIH A4	-
2-Butoxyethanol	-	-	ACGIH A3	-	ACGIH A3	C3 Carcinogen

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish LC50
Propane	-	-
Butane	-	-
Isopropyl alcohol	>1000mg/L Desmodesmus subspicatus 72h >1000mg/L Desmodesmus subspicatus 96h	= 11130mg/L Pimephales promelas 96h = 9640mg/L Pimephales promelas 96h > 1400000µg/L Lepomis macrochirus 96h

Chemical name	Algae/aquatic plants	Fish LC50
2-Butoxyethanol	-	= 1490mg/L <i>Lepomis macrochirus</i> 96h = 2950mg/L <i>Lepomis macrochirus</i> 96h

Persistence and degradability Not available.

Bioaccumulation

Chemical name	CAS-No	Partition coefficient (log Kow)	Bioconcentration factor (BCF)
Propane 74-98-6	74-98-6	2.3 ≤2.8	-
Butane 106-97-8	106-97-8	2.31 at 20 °C (at pH 7, ECHA_API) ≤2.8	-
Isopropyl alcohol 67-63-0	67-63-0	0.05 at 25 °C (ECHA_API)	-
2-Butoxyethanol 111-76-2	111-76-2	0.81 at 25 °C (at pH 7, ECHA_API)	-

Mobility in soil Not available.

Other adverse effects No known significant effects or critical hazards.

13. DISPOSAL CONSIDERATIONS

Disposal information The generation of waste should be avoided or minimized whenever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Contaminated packaging Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its containers must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate.

14. TRANSPORTATION INFORMATION

Shipping Descriptions

DOT

ID-No UN1950
 Proper shipping name Aerosols
 Hazard Class(es) 2.1
 Packing group
 Special Provisions LTD QTY

TDG

ID-No UN1950
 Proper shipping name Aerosols
 Hazard Class(es) 2.2
 Packing group
 Special Provisions LTD QTY

IATA

ID-No UN1950
 Proper shipping name Aerosols

Hazard Class(es) 2.2
 Subsidiary Risk
 Packing group
 Special Provisions LTD QTY

IMDG/IMO

ID-No UN1950
 Proper shipping name Aerosols
 Hazard Class(es) 2.2
 Packing group
 EmS No F-D, S-U
 Special Provisions LTD QTY

Marine Pollutants

Chemical name	CAS-No	USDOT Marine Pollutant	Canada TDG Marine Pollutant	IMDG Marine Pollutant
Propane	74-98-6	-	-	-
Butane	106-97-8	-	-	-
Isopropyl alcohol	67-63-0	-	-	-
2-Butoxyethanol	111-76-2	-	-	-

Special Precautions

Multi-modal shipping descriptions are provided for informational purposes and do not consider container size. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

15. REGULATORY INFORMATION

State regulations**U.S. state Right-to-Know regulations**

Chemical name	CAS-No	Massachusetts - RTK	New Jersey - RTK	Pennsylvania - RTK
Propane	74-98-6	X	X	X
Butane	106-97-8	X	X	X
Isopropyl alcohol	67-63-0	X	X	X
2-Butoxyethanol	111-76-2	X	X	X

California Prop. 65

Chemical name	CAS-No	California Prop. 65
Propane	74-98-6	-
Butane	106-97-8	-
Isopropyl alcohol	67-63-0	-
2-Butoxyethanol	111-76-2	-

U.S. Federal Regulations

Methylene Chloride notification No Information Available

US EPA SARA 313

Chemical name	CAS-No	CERCLA/SARA Hazardous Substances RQ	SARA 313 - Threshold Values
Propane	74-98-6	-	-
Butane	106-97-8	-	-
Isopropyl alcohol	67-63-0	-	1.0 %
2-Butoxyethanol	111-76-2	-	1.0 %

**US EPA SARA 311/312
hazardous categorization**

Acute Health Hazard
Chronic Health Hazard
Sudden Release of Pressure Hazard

TSCA and Canadian Inventories

Chemical name	Inventory - United States - Section 8(b) Inventory (TSCA)	U.S. - TSCA (Toxic Substances Control Act) - Section 12(b) - Export Notification	DSL	NDSL
Propane	X	-	X	-
Butane	X	-	X	X
Isopropyl alcohol	X	-	X	X
2-Butoxyethanol	X	-	X	-

Legend X - Listed

16. OTHER INFORMATION**NFPA**

Health Not available
Flammability Not available
Instability Not available

HMIS

Health 1
Flammability 4
Physical hazards 0
Personal protection B

Notice: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA).

Prepared by Regulatory Affairs

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Revision note**Key to abbreviations**

ACGIH (American Conference of Governmental Industrial Hygienists)
ATE (Average Toxicity Estimate)

DSL/NDSL (Domestic Substance List/Non-Domestic Substance List)
HMIS (Hazardous Materials Identification System)
IARC (International Agency for Research on Cancer)
IATA (International Air Transport Association)
IMDG/IMO (International Maritime Dangerous Goods/International Maritime Organization)
NFPA (National Fire Protection Association)
NTP (National Toxicology Program)
OEL (Occupational Exposure Level)
OSHA (Occupational Safety and Health Administration of the US Department of Labor)
PEL (Permissible Exposure Limit)
TSCA (Toxic Substance Control Act)
USEPA (United States Environmental Protection Agency)

Disclaimer

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.

End of Safety Data Sheet