DRUMMOND™
A LAWSON BRAND

Material Safety Data Sheet

Revision Date *15-Apr-2013*

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product code DA6152C
Product name Open and Shut
Recommended Use Solvent

Supplier
Drummond, A Lawson Brand
Lawson Products, Inc.
8770 W.Bryn Mawr Ave.- Suite 900
Chicago, IL 60631
1-866-529-7664

Emergency telephone number 1 (888) 426-4851

2. HAZARDS IDENTIFICATION

Emergency Overview
Contents under pressure. Vapors irritating to eyes and respiratory tract. Suspect Cancer Hazard.***

Aggravated Medical Conditions
None Known.

Principal Routes of Exposure
Inhalation. Eyes. Skin contact.

Potential health effects

Eyes May cause the following effects:. Irritation. Redness. 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:. Upper respiratory tract irritation. Headaches. Nausea. Dizziness.

Ingestion May be harmful if swallowed.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Tetrachloroethylene	127-18-4	60-100
Petroleum distillates, hydrotreated heavy naphthenic	64742-52-5	10-30
Carbon Dioxide	124-38-9	1-5

4. FIRST AID MEASURES

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

Skin contact Wash area thoroughly with soap and 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 > 93
Flash point °F > 200
Method Pensky-Martens C.C.

Autoignition temperature °C No data available
Autoignition temperature °F No data available

Flammability Limits (% in Air)
Upper No data available
Lower No data available

Specific Information for Aerosol Products

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

Fire and Explosion Hazards
Keep product and empty container away from heat and sources of ignition. Containers exposed to extreme heat may burst. During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention. Water should be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat. Water spray may be ineffective. If water is used, fog nozzles are preferable.

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.

7. HANDLING AND STORAGE

Handling
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. Keep in a well-ventilated place. Keep out of reach of children.

Storage
Store in temperatures below 120 degrees F (50 degrees C).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	OSHA PEL (TWA)	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Tetrachloroethylene	100 ppm***	200 ppm***	25 ppm***	100 ppm***
Petroleum distillates, hydrotreated heavy naphthenic	-	-	-	-
Carbon Dioxide	5000 ppm 9000 mg/m³***	-	5000 ppm***	30000 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. Local: recommended.

Hygiene measures
Wash hands before breaks and immediately after handling the product.

Other precautions
Avoid contact with the skin and the eyes. Avoid breathing vapors or mists.

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	Aerosol
Color	Colorless
Odor	Slight
Odor Threshold	No information available
pH	Not Applicable
Specific Gravity	1.39
Vapor pressure	No data available
Density	11.54 lb/gal, 1382 g/l
Vapor density	>1 (air=1)
Evaporation Rate	>1 (ether = 1)
Water solubility	No data available
VOC Content	0.00%
Partition Coefficient (n-octanol/water)	No data available
Boiling point/range °C	-18 - 122
Boiling point/range °F	0 - 252
Melting point/range °C	Not Applicable
Melting point/range °F	Not Applicable
Flash point °C	> 93
Flash point °F	> 200

10. STABILITY AND REACTIVITY

Stability
Stable.

Conditions to avoid
None known.

Incompatability
None known.

Hazardous Decomposition Products
Carbon dioxide. Carbon monoxide. Hydrogen chloride.

Polymerization
Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Component Information

Chemical Name	LD50 (oral,rat)	LD50 (dermal,rat/rabbit)	LC50 (inhalation,rat)
Tetrachloroethylene 127-18-4	2629 mg/kg***	-	4000 ppm
Petroleum distillates, hydrotreated heavy naphthenic 64742-52-5	28710 mg/kg***	-	-
Carbon Dioxide 124-38-9	-	-	-

Synergistic Products None known.

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	None Known.
Carcinogenic effects	NTP and IARC have determined that exposure to tetrachloroethylene (perchloroethylene) is reasonably anticipated to be carcinogenic to humans (IARC Group 2A). Risk of cancer depends on duration and level of exposure.

Chemical Name	ACGIH OEL - Carcinogens	IARC	NTP - Known Carcinogens	NTP - Suspected Human Carcinogens	OSHA RTK Carcinogens
Tetrachloroethylene	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans***	Group 2A***	Not Listed	NTP-R***	Listed***
Petroleum distillates, hydrotreated heavy naphthenic	A2 - Suspected Human Carcinogen***	Group 1***	NTP-K***	Not Listed	Listed***
Carbon Dioxide	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

12. ECOLOGICAL INFORMATION

Tetrachloroethylene
Microtox Data
Tetrahymena pyriformis EC50=100 mg/L (24 h)
Nitrosomonas EC50=112 mg/L (24 h)
Photobacterium phosphoreum EC50=120.0 mg/L (30 min)
Water Flea Data
*6.1 - 9.0: 48 h Daphnia magna mg/L EC50 Static****
Petroleum distillates, hydrotreated heavy naphthenic
Water Flea Data
*1000: 48 h Daphnia magna mg/L EC50****

13. DISPOSAL CONSIDERATIONS

Disposal Information
This product contains tetrachloroethylene, a highly volatile solvent which is a toxic waste as defined by RCRA ,40 CFR 261 (United States). In normal use this chemical will quickly evaporate.However, grease or other residue removed by this product may contain sufficient tetrachloroethylene to be classified as a toxic waste. Do not puncture or incinerate. Depressurize before disposal. Dispose in accordance with federal, state, and local regulations.

14. TRANSPORTATION INFORMATION

DOT

May be classed as Consumer Commodity, ORM-D, UN1950, AEROSOLS, 2.2, LIMITED QUANTITY

TDG

May be classed as Consumer Commodity, ORM-D, UN1950, AEROSOLS, 2.2, LIMITED QUANTITY

15. REGULATORY INFORMATION

US EPA SARA 313

Chemical Name	US EPA SARA 313 Emission Reporting
Tetrachloroethylene	Listed***

State Regulations

Chemical Name	New Jersey - RTK	Pennsylvania - RTK	California Prop. 65
Tetrachloroethylene	Listed	Listed***	Carcinogen
Petroleum distillates, hydrotreated heavy naphthenic	Not Listed	Not Listed	Not Listed
Carbon Dioxide	Listed	Listed***	Not Listed

WARNING: This product contains a chemical(s) known to the state of California to cause cancer

International Inventories

Chemical Name	EINECS	DSL	NDSL	TSCA	Tetrachloroethylene
X***	X***	-	X***	Petroleum distillates, hydrotreated heavy naphthenic	X***
X***	-	X***	Carbon Dioxide	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 - 2
Physical Hazard - 0

Prepared By V. Shargorodsky, Regulatory Affairs Engineer

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.