

Material Safety Data Sheet

Revision Date 11-Apr-2011

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product code DA6641
Product name TROUPER (AEROSOL)
Recommended Use Degreaser / Cleaner

Supplier Drummond, A Lawson Brand
Lawson Products, Inc.
1666 East Touhy Avenue
Des Plaines, IL 60018
1-866-529-7664

Emergency telephone number (888) 426-4851

2. HAZARDS IDENTIFICATION

Emergency Overview

Contents under pressure. Harmful by inhalation, in contact with skin and if swallowed. May cause eye/skin irritation. Irritating to respiratory system.

Aggravated Medical Conditions

None Known.

Principal Routes of Exposure

Eyes. Skin. Inhalation. Ingestion.

Potential health effects

Eyes May cause the following effects: Irritation. Burning sensation. Stain for evidence of corneal injury. Conjunctivitis. Blurred vision.

Skin Harmful in contact with skin. Skin Irritation.

Inhalation Harmful by inhalation. May cause the following effects. Irritating to respiratory system. Narcosis. Central nervous system effects. Headaches. Pulmonary edema. Kidney damage. Fatigue. Weakness. Loss of coordination. Misuse by deliberately concentrating vapors and inhaling contents can be harmful or fatal.

Ingestion Not likely to occur. Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Ethyl benzene	100-41-4	0.5 - 1
Non-Hazardous Ingredients	N/A	60 - 80
Naphtha (petroleum), hydrotreated heavy	64742-48-9	8 - 10

Propane	74-98-6	10 - 15
Butane	106-97-8	8 - 10
Xylene (mix)	1330-20-7	3 - 5

4. FIRST AID MEASURES

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

Skin contact Remove contaminated clothing and footwear. Flush skin with water and follow by washing skin with soap and water. Seek medical attention if irritation persists.

Ingestion Rinse mouth. Seek medical attention immediately. Do not induce vomiting without medical advice. Keep head below hips if vomiting occurs.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Keep warm and quiet. Get medical attention if cough or respiratory symptoms develop.

Notes to physician Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flash point °C -104.4
Flash point °F -156
Method No information available

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

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

Suitable extinguishing media

Water fog. Alcohol foam. Dry chemical. Carbon dioxide.

Extinguishing media which must NOT be used for safety reasons

Do not use a solid water stream as it may scatter and spread fire.

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

In the event of fire and/or explosion do not breathe fumes. Containers exposed to extreme heat may burst. Flash back possible over considerable distance. Water should be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat. Contact with open flame generates corrosive and toxic fumes.

Sensitivity to shock

No information available.

Sensitivity to static discharge

No information available.

6. ACCIDENTAL RELEASE MEASURES**Methods for cleaning up**

Personnel should wear appropriate protective equipment. Follow all precautions for handling. Please refer to appropriate sections of MSDS for additional information. Evacuate area of unprotected and unnecessary personnel. Eliminate all sources of ignition. Ventilate area to maintain exposure below permissible exposure limits. Shut off source of leak if safe to do so. Soak up with inert absorbent material. Pick up and transfer to properly labelled containers.

7. HANDLING AND STORAGE**Handling**

Ensure adequate ventilation. Avoid breathing vapors. Avoid contact with skin, eyes and clothing. Contents under pressure. Do not puncture or incinerate. Keep away from open flames, hot surfaces and sources of ignition. Dropping of containers may cause bursting.

Storage

Keep away from open flames, hot surfaces and sources of ignition. Keep away from direct sunlight. Keep container tightly closed. Keep tightly closed in a dry and cool place. Keep in an area equipped with sprinklers. Keep out of the reach of children. Always handle and store in a careful manner.

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)
Non-Hazardous Ingredients	-	-	-	-
Propane	1000 ppm 1800 mg/m ³	-	1000 ppm	-
Butane	800 ppm	-	1000 ppm	-
Naphtha (petroleum), hydrotreated heavy	-	-	-	-
Xylene (mix)	100 ppm 435 mg/m ³	-	100 ppm	150 ppm
Ethyl benzene	100 ppm 435 mg/m ³	-	100 ppm	125 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.

Hygiene measures

When using, do not eat, drink or smoke. Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.

Respiratory protection

None required if adequate ventilation is provided. Use NIOSH approved respirator if TLV limit is exceeded.

Hand Protection

Chemical resistant gloves.

Eye protection

Use safety eyewear designed to protect against splash of liquids.

Skin and body protection

Wear appropriate clothing to minimize skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Aerosol
Color	White
Odor	No information available
Odor Threshold	No information available
pH	9.97
Specific Gravity	0.8261
Vapor pressure	60-70 @ 70F
Vapor density	No data available
Evaporation Rate	No data available
Water solubility	Partly soluble
VOC Content	35.5%
Partition Coefficient (n-octanol/water)	No data available
Boiling point/range °C	No data available
Boiling point/range °F	No data available
Melting point/range °C	No data available
Melting point/range °F	No data available
Flash point °C	-104.4
Flash point °F	-156

10. STABILITY AND REACTIVITY**Stability**

Risk of explosion. Stable under normal conditions.

Conditions to avoid

Avoid heat, sparks, and other sources of ignition. Avoid electrical arcs. Avoid direct sunlight. Dropping of containers may cause bursting.

Incompatibility

None known.

Hazardous Decomposition Products

Nitrogen oxide.

Polymerization

Hazardous polymerization does not occur

Product code **DA6641**Product name **TROUPER
(AEROSOL)****11. TOXICOLOGICAL INFORMATION****Component Information**

Chemical Name	LD50 (oral,rat)	LD50 (dermal,rat/rabbit)	LC50 (inhalation,rat)
Non-Hazardous Ingredients N/A	-	-	-
Propane 74-98-6	-	-	658 mg/L
Butane 106-97-8	-	-	658 mg/L
Naphtha (petroleum), hydrotreated heavy 64742-48-9	5000 mg/kg	3160 mg/kg	-
Xylene (mix) 1330-20-7	4300 mg/kg	1700 mg/kg	47635 mg/L 5000 ppm
Ethyl benzene 100-41-4	3500 mg/kg	15354 mg/kg	17.2 mg/L

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 See Section 2

Carcinogenic effects See table below

Chemical Name	ACGIH OEL - Carcinogens	IARC	NTP - Known Carcinogens	NTP - Suspected Human Carcinogens	OSHA RTK Carcinogens
Non-Hazardous Ingredients	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Propane	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Butane	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Naphtha (petroleum), hydrotreated heavy	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Xylene (mix)	Listed	Not Listed	Not Listed	Not Listed	Not Listed
Ethyl benzene	Listed	Group 2B	Not Listed	Not Listed	Listed

12. ECOLOGICAL INFORMATION

Naphtha (petroleum), hydrotreated heavy

Water Flea Data*Chaetogammarus marinus* hLC50 96 (2.6 mg/L)

Xylene (mix)

Microtox Data*Photobacterium phosphoreum* EC50=0.0084 mg/L (24 h)**Water Flea Data***water flea* hEC50 48 (3.82 mg/L)*Gammarus lacustris* hLC50 48 (0.6 mg/L)*water flea* hEC50 48 (3.82 mg/L)

Ethyl benzene

Microtox Data*Photobacterium phosphoreum* EC50=9.68 mg/L (30 min)*Nitrosomonas* EC50=96 mg/L (24 h)**Water Flea Data***Daphnia magna* hEC50 48 (1.8 - 2.4 mg/L)**13. DISPOSAL CONSIDERATIONS****Disposal Information**

As supplied, this product is a RCRA Hazardous Waste . Do not puncture or incinerate. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

14. TRANSPORTATION INFORMATION**DOT**

Consumer commodity, ORM-D

TDG

Consumer commodity, ORM-D

15. REGULATORY INFORMATION**US EPA SARA 313**

Chemical Name	US EPA SARA 313 Emission Reporting
Xylene (mix)	Listed
Ethyl benzene	Listed

State Regulations

Chemical Name	New Jersey - RTK	Pennsylvania - RTK	California Prop. 65
Non-Hazardous Ingredients	Not Listed	Not Listed	Not Listed
Propane	Listed	Listed	Not Listed
Butane	Listed	Listed	Not Listed
Naphtha (petroleum), hydrotreated heavy	Not Listed	Not Listed	Not Listed
Xylene (mix)	Not Listed	Listed	Not Listed
Ethyl benzene	Listed	Listed	Carcinogen

Product code **DA6641**

Product name **TROUPER
(AEROSOL)**

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

International Inventories

Chemical Name	EINECS	DSL	NDSL	TSCA
Non-Hazardous Ingredients	-	-	-	-
Propane	X	X	-	X
Butane	X	X	-	X
Naphtha (petroleum), hydrotreated heavy	X	X	-	X
Xylene (mix)	X	X	-	X
Ethyl benzene	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

J. Cameron, Regulatory Affairs
Coordinator

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.