

Material Safety Data Sheet

Revision Date 09-Aug-2011

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product code DA7050
Product name AGGRESSOR
Recommended Use Solvent

Supplier Drummond American
A Lawson Products Company
600 Corporate Woods Parkway
Vernon Hills, IL 60061
(847) 913-9313

Emergency telephone number (888) 426-4851

2. HAZARDS IDENTIFICATION

Emergency Overview

Flammable. Contents under pressure. Irritant.

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 Upper respiratory tract irritation. Repeated or prolonged exposure may cause the following effects. Headaches. Dizziness. Nausea. Loss of coordination. Central nervous system depression. Extreme overexposure may cause. 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	10-30
Butane	106-97-8	7-13
Naphtha (petroleum), light alkylate	64741-66-8	30-60
D-Limonene	5989-27-5	10-30

4. FIRST AID MEASURES

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.

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 < -17
Flash point °F < 0
Method No information available

Autoignition temperature °C No data available
Autoignition temperature °F

Flammability Limits (% in Air)
Upper 10.2
Lower 0.7

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

Special Fire-Fighting Procedures
Avoid breathing of vapors. Avoid skin and eye contact.

Fire and Explosion Hazards
Containers exposed to extreme heat may burst. Keep product and empty container away from heat and sources of ignition. In the event of fire and/or explosion do not breathe fumes. 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
Yes. Take precautionary measures against static discharges.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions
Use personal protective equipment.

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**

Keep in a well-ventilated place. Turn off other sources of ignition prior to use and until all vapors have dissipated. Vapors may accumulate readily and may ignite explosively. Remove all sources of ignition. Keep away from open flame. Heat, flames and sparks. Do not smoke. Check to make sure that all equipment is properly grounded and installed to satisfy electrical classification requirements. Ground and bond containers when transferring material. 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 out of reach of children.

Storage

Store in temperatures below 120 degrees F. Keep away from direct sunlight.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	OSHA PEL (TWA)	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Naphtha (petroleum), light alkylate	-	-	-	-
D-Limonene	-	-	-	-
Propane	1000 ppm 1800 mg/m ³	-	1000 ppm	-
Butane	800 ppm	-	1000 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	0.69
Vapor pressure	No data available
Density	5.70 lb/gal, 682 g/l
Vapor density	>1 (air=1)
Evaporation Rate	>1 (ether = 1)
Water solubility	No data available
VOC Content	100%
Partition Coefficient (n-octanol/water)	No data available
Boiling point/range °C	< -18 - 155
Boiling point/range °F	< 0 - 311
Melting point/range °C	No data available
Melting point/range °F	No data available
Flash point °C	< -17
Flash point °F	< 0

10. STABILITY AND REACTIVITY**Stability**

Stable.

Conditions to avoid

None known.

Incompatibility

None.

Hazardous Decomposition Products

Carbon dioxide. Carbon monoxide.

Polymerization

Will not occur.

11. TOXICOLOGICAL INFORMATION**Component Information**

Chemical Name	LD50 (oral, rat)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat)
<i>Naphtha (petroleum), light alkylate</i> 64741-66-8	7000 mg/kg	2000 mg/kg	5.04 mg/L
<i>D-Limonene</i> 5989-27-5	4400 mg/kg	2000 mg/kg	-
<i>Propane</i> 74-98-6	-	-	658 mg/L
<i>Butane</i> 106-97-8	-	-	658 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
Naphtha (petroleum), light alkylate	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
D-Limonene	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

12. ECOLOGICAL INFORMATION

Naphtha (petroleum), light alkylate

Water Flea Data

Mysidopsis bahia hLC50 48 (2 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

May be classed as Consumer Commodity, ORM-D, UN1950, AEROSOLS, 2.1, LIMITED QUANTITY

TDG

May be classed as Consumer Commodity, ORM-D, UN1950, AEROSOLS, 2.1, LIMITED QUANTITY

15. REGULATORY INFORMATION

US EPA SARA 313

State Regulations

Chemical Name	New Jersey - RTK	Pennsylvania - RTK	California Prop. 65
Naphtha (petroleum), light alkylate	Not Listed	Not Listed	Not Listed

Chemical Name	EINECS	DSL	NDSL	TSCA
D-Limonene	Not Listed	Not Listed	Not Listed	Not Listed
Propane	Listed	Listed	Listed	Not Listed
Butane	Listed	Listed	Listed	Not Listed

International Inventories

Chemical Name	EINECS	DSL	NDSL	TSCA
Naphtha (petroleum), light alkylate	X	X	-	X
D-Limonene	X	X	-	X
Propane	X	X	-	X
Butane	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

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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.