

Material Safety Data Sheet

Revision Date 21-Apr-2011

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product code DA6401
 Product name Bonafide
 Recommended Use 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**

Vapors extremely irritating to eyes and respiratory tract. Suspect Cancer Hazard. Contents under pressure.

Aggravated Medical Conditions
 None Known.

Principal Routes of Exposure
 Inhalation. Eyes. Skin contact.

Potential health effects

Eyes Exposure to vapors may cause the following effects: Irritation. Redness. Itching. 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. Extreme overexposure may cause. Liver damage. Urinary system effects. Cardiac abnormalities. Central nervous system effects. Respiratory system damage.

Ingestion Harmful if swallowed. May cause effects similar to inhalation.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Trichloroethylene	79-01-6	60-100
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 off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use. Seek medical attention immediately.

Ingestion Do not induce vomiting. Seek medical attention immediately.

Inhalation Remove to fresh air. Restore breathing. Keep warm and quiet.

5. FIRE FIGHTING MEASURES

Flash point °C Not Applicable
Flash point °F Not Applicable
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
 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.

Fire and Explosion Hazards
 Containers exposed to extreme heat may burst. Containers may vent or burst under extreme or prolonged fire conditions. 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.

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**

Ensure adequate ventilation. Avoid breathing vapors or mists. Contents under pressure. Do not puncture or incinerate. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Keep away from open flames, hot surfaces and sources of ignition. Do not take internally. Keep out of reach of children.

Storage

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	OSHA PEL (TWA)	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Trichloroethylene	100 ppm	200 ppm	10 ppm	25 ppm
Carbon Dioxide	5000 ppm 9000 mg/m ³	-	5000 ppm	30000 ppm

Ventilation and Environmental Controls

Adequate ventilation should be provided to keep exposure levels below current acceptable exposure limits. Sufficient ventilation in volume and in pattern, should be provided to keep air contamination below current applicable OSHA PEL or ACGIH OEL limits. Local: recommended.

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	Aerosol
Color	Colorless
Odor	No information available
Odor Threshold	No information available
pH	No data available
Specific Gravity	1.45
Vapor pressure	No data available
Density	12.04 lb/gal; 1442 g/l
Vapor density	>1 (Air = 1)
Evaporation Rate	>1 (Ether =1)

Water solubility	No data available
VOC Content	97.5%
Partition Coefficient (n-octanol/water)	No data available
Boiling point/range °C	< -18 - 86
Boiling point/range °F	< 0 - 188
Melting point/range °C	No data available
Melting point/range °F	No data available
Flash point °C	Not Applicable
Flash point °F	Not Applicable

10. STABILITY AND REACTIVITY**Stability**

Stable.

Conditions to avoid

None known.

Incompatibility

None known.

Hazardous Decomposition Products

Carbon dioxide. Carbon monoxide. Hydrogen chloride.

Polymerization

Will not occur.

11. TOXICOLOGICAL INFORMATION**Component Information**

Chemical Name	LD50 (oral, rat)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat)
Trichloroethylene 79-01-6	4290 mg/kg	20 g/kg	26300 ppm 8000 ppm
Carbon Dioxide 124-38-9	-	-	-

Synergistic Products

None known

Specific Hazards

Reports have associated repeated and prolonged occupational exposure to solvents with permanent brain damage.

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
Trichloroethylene	Listed	Group 2A	Not Listed	Listed	Listed
Carbon Dioxide	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

12. ECOLOGICAL INFORMATION

Trichloroethylene

Microtox Data

Nitrosomonas EC50=0.81 mg/L (24 h)

Photobacterium phosphoreum EC50=115 mg/L (10 min)

Photobacterium phosphoreum EC50=190 mg/L (15 min)

Bacillus subtilis EC50=235 mg/L (24 h)

Tetrahymena pyriformis EC50=410 mg/L (24 h)

Photobacterium phosphoreum EC50=975 mg/L (5 min)

Water Flea Data

Daphnia magna hEC50 48 (2.2 mg/L)

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) . Do not puncture or incinerate. Depressurize before disposal. Dispose in accordance with federal, state, and local regulations. 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.

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
Trichloroethylene	Listed

State Regulations

Chemical Name	New Jersey - RTK	Pennsylvania - RTK	California Prop. 65
Trichloroethylene	Listed	Listed	Carcinogen
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
Trichloroethylene	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 - 0
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.