This item was discontinued prior to GHS implementation.
A GHS Safety Data Sheet is not available for this item.

Material Safety Data Sheet

Revision Date *21-Apr-2011*

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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.

Color Colorless **Odor** No information available **Form** Aerosol

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 Not Applicable
Lower Not Applicable

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

Exposure limits

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.

Personal protective equipment

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

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	**Vapor density**	>1 (Air = 1)
Evaporation Rate	>1 (Ether =1)	**Density**	12.04 lb/gal; 1442 g/l
VOC Content	97.5%	**Water solubility**	No data available
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.

Incompatability
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. TRANSPORT INFORMATION

DOT

Consumer commodity, ORM-D

TDG

Consumer commodity, ORM-D

14. TRANSPORT INFORMATION

15. REGULATORY INFORMATION

Chemical Name	US EPA SARA 313 Emission Reporting
Trichloroethylene	Listed

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

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

NFPA		HMIS	
Health	-	**Health**	2 *
Flammability	-	**Flammability**	0
Reactivity	-	**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.