Material Safety Data Sheet

Revision Date *10-Oct-2013*

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product code DL1255
Product name BONAFIDE
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 (888) 426-4851

2. HAZARDS IDENTIFICATION

Emergency Overview
Irritant.

Aggravated Medical Conditions
Pre-existing skin, eye, or respiratory conditions may be aggravated by exposure to this product.

Principal Routes of Exposure
Eyes. Skin. Ingestion. Inhalation.

Potential health effects

Eyes Contact with eyes may cause irritation.

Skin Moderate irritation. Prolonged skin contact may defat the skin and produce dermatitis.

Inhalation May cause irritation of respiratory tract. Irritation of the nose or throat. Central nervous system depression. Headaches. Light headedness. Nausea. Stupor. Weakness. Changes in heart rate.

Ingestion Toxic if swallowed. Sore throat. Abdominal pain. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration hazard. May cause severe lung damage if aspirated into the lungs from ingestion or vomiting. Harmful or fatal if swallowed.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Trichloroethylene	79-01-6	< 100

4. FIRST AID MEASURES

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Seek medical attention if irritation persists.

Skin contact Remove and wash contaminated clothing before re-use. Wipe excess from skin and flush with water using soap if available. Seek medical attention if irritation persists.

Ingestion Dilute with liquid. Do Not induce vomiting without medical advice. Keep head below hips if vomiting occurs. Vomiting may cause aspiration pneumonia. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.

Inhalation Remove to fresh air. Provide oxygen or artificial respiration if necessary. Artificial respiration and/or oxygen may be necessary. Immediate medical attention is required.

5. FIRE FIGHTING MEASURES

Flash point °C Not Applicable
Flash point °F Not Applicable
Method Tag Closed Cup

Autoignition temperature °C 420
Autoignition temperature °F 788

Flammability Limits (% in Air)
Upper 12.5
Lower 8.0

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

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
Empty containers contain residue and/or vapors. Do not weld, cut, pressurize, braze, solder, drill, grind, or expose such containers to heat, sparks, flame, static electricity, or other sources of ignition. They may explode and cause injury or death. Water should be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat .

Sensitivity to shock
No information available.

Sensitivity to static discharge
No information available.

6. ACCIDENTAL RELEASE MEASURES

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Methods for cleaning up
Ventilate area to maintain exposure below permissible exposure limits. Do not allow product to reach sewage system, soil, surface or ground water, or any water course. Notify proper authorities if entry occurs. 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. Remove all sources of ignition. Heat, flames and sparks. Turn off other sources of ignition prior to use and until all vapors have dissipated. Keep container closed when not in use. Do not reuse containers. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such contents to heat, flames, and other sources of ignition. Thoroughly wash hands and exposed skin after handling.

Storage
Keep out of the reach of children.

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

Ventilation and Environmental Controls
Adequate ventilation should be provided to keep exposure levels below current acceptable exposure limits.

Hygiene measures
Handle in accordance with good industrial hygiene and safety practice. Wash hands after handling the product.

Other precautions
Avoid contact with skin, eyes and clothing.

Respiratory protection
Use NIOSH approved respirator if TLV limit is exceeded. Wear a NIOSH approved air purifying organic cartridge respirator. Protection provided by air purifying respirators is limited. Use a positive pressure supplied air respirator. if there is any potential for an uncontrolled release:. where exposure levels are not known. or other circumstances where an air purifying respirator (P100) may not provide adequate protection .

Hand Protection
For prolonged or repeated skin contact, use a chemically resistant glove such as nitrile or neoprene. Wash hands with soap and water after removing gloves. Dry hands thoroughly before re-applying gloves. .

Eye protection
Use safety eyewear designed to protect against splash of liquids. ANSI approved safety glasses or splash goggles with face shield are recommended.

Skin and body protection
None necessary under normal conditions

Other Protective Equipment
A safety shower and eye wash station should be available for emergency use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Liquid
Color	Clear
Odor	Ester-like
Odor Threshold	Not Applicable
pH	Not Applicable
Specific Gravity	1.4697
Vapor pressure	57.8 mmHg @ 25°C
Vapor density	4.54 (air=1)
Evaporation Rate	.26 (n-butyl acetate = 1)
Water solubility	0.11%
VOC Content	No data available
Partition Coefficient (n-octanol/water)	Not Applicable
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	Not Applicable
Flash point °F	Not Applicable

10. STABILITY AND REACTIVITY

Stability
Stable.

Conditions to avoid
None known.

Incompatability
Alkalies. Strong oxidizers. Alkali metals.

Hazardous Decomposition Products
Thermal decomposition can lead to release of irritating gases and vapours. Hydrogen chloride. Carbon dioxide. phosgene.

Polymerization
Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Component Information

Chemical Name	LD50 (oral,rat)	LD50 (dermal,rat/rabbit)	LC50 (inhalation,rat)
Trichloroethylene 79-01-6	-	-	26300 ppm 8000 ppm

Synergistic Products None known

Potential health effects

Sensitization None known

Chronic toxicity None known

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	A2	Group 1	Not Listed	Reasonably Anticipated To Be A Human Carcinogen	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)

12. ECOLOGICAL INFORMATION

Water Flea Data
Daphnia magna EC50=2.2 mg/L (48 h)

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products
Dispose in accordance with federal, state, and local regulations.

14. TRANSPORTATION INFORMATION

DOT
UN1710 Trichloroethylene, Class 6.1, PG III
Exception: (Poisonous liquid (not by inhalation) PG III not more than 5.0L) Consumer Commodity ORM-D, RQ, 20 GAL, 35 GAL, 55 GAL

TDG
UN1710 TRICHLOROETHYLENE, Class 6.1, PG III

15. REGULATORY INFORMATION

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

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

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 - 3
Flammability - 1
Physical Hazard - 0

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