



MATERIAL SAFETY DATA SHEET

REVISION DATE: 04/18/2012

REVISION NUMBER:

2

DATE PRINTED: 03/18/2013

PREPARED BY:

EH&S DEPARTMENT

1. CHEMICAL PRODUCT

PRODUCT NAME: **DFE CITRUS BIO SOLV**
PRODUCT CODE: 118863

NFPA/HMIS HAZARD CODES(minimal=0; slight=1; moderate=2; serious=3; severe=4)

Health: 2/2

Fire: 2/2

Reactivity: 0/0

Special/Protective Equipment: None/B

NAME OF THE MANUFACTURER: Rochester Midland Corporation
155 Paragon Drive
Rochester, New York 14624
USA

Emergency Phone:
INFOTRAC: 1-800-535-5053
OUTSIDE US: 1-352-323-3500

2. HAZARDS IDENTIFICATION

EFFECTS FROM ACUTE EXPOSURE:

INGESTION: May cause severe irritation. Causes vomiting, nausea, and diarrhea. Aspiration of ingested or vomited liquid into the lungs may cause chemical pneumonia, which can be fatal.

SKIN CONTACT: Causes moderate skin irritation. Dermatitis. May cause skin burns.

INHALATION: Excessive inhalation causes headache, dizziness, nausea and incoordination. May cause Central Nervous System effects.

EYE CONTACT: Causes severe eye irritation. May Cause Eye Burns.

CHRONIC EFFECTS: None expected in normal use. Long term overexposure to some glycol ethers by skin absorption or inhalation may cause kidney, liver, or blood effects based on animal testing.

EFFECTS/CARCINOGENICITY: None listed under OSHA, IARC, or NTP.

ROUTES OF ENTRY: Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

PRODUCT COMPOSITION CAS#	%	ACGIH TLV	OSHA PELs
Diethylene glycol butyl ether 112-34-5	1 - 5	Not applicable	Not applicable
d-Limonene - combustible 5989-27-5	1 - 5	Not applicable	Not applicable

4. FIRST AID MEASURES

INGESTION: DO NOT INDUCE VOMITING.

SKIN: Wash with soap and water. Remove contaminated clothing and laundry before reuse. Get medical attention if irritation persists.

INHALATION: If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.

EYES: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

NOTES TO PHYSICIAN: None.

5. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:	(F): 129 F TCC (OSHA) (C): Not determined
METHOD:	TCC
FLAMMABLE LIMITS IN AIR	
LOWER (%):	0.7%
UPPER (%):	6.1% (approx.)
SENSITIVITY TO MECHANICAL IMPACT(Y/N):	NO
SENSITIVITY TO STATIC DISCHARGE:	Sensitivity to static discharge is not expected.
SUITABLE EXTINGUISHING MEDIA:	Water fog, carbon dioxide, foam, dry chemical.
FIRE FIGHTING PROCEDURES:	Cool exposed containers with water spray. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Positive pressure, self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

SPILL PROCEDURES:	
SMALL SPILLS:	Mop up all possible. Flush residue with water.
LARGE SPILLS:	Flush remainder with water. Releases of some glycol ethers may be CERCLA reportable. Dike to contain. Pick up with absorbant material. Put in suitable container for disposal.
PERSONAL PRECAUTIONS:	Not applicable
ENVIRONMENTAL PRECAUTIONS:	Not applicable
METHODS FOR CLEANING UP:	Not applicable

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:	Do not store near heat, sparks or flame. Do not store near oxidizing agents. Store only in original container and keep closed. Do not reuse container. Avoid contact with skin and eyes. Use only in a well ventilated area. Do not breathe mist or vapors. WARNING
OTHER PRECAUTIONS:	Empty containers may retain product residue, follow MSDS/label precautions even after container is emptied.
SPECIFIC USE(S):	Not applicable.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

PROTECTIVE EQUIPMENT:



EXPOSURE CONTROLS:	Use in a well ventilated area.
RESPIRATORY PROTECTION:	NIOSH approved respirator if spray mist in air causes irritation.
PROTECTIVE GLOVES:	Chemical resistant gloves are recommended to minimize skin contact.
EYE PROTECTION:	Safety glasses are recommended to minimize eye contact.
OTHER PERSONAL PROTECTION EQUIPMENT:	None required. It is the responsibility of the end user of this product to determine level of PPE required that is consistent with safe use of this product.
VENTILATION:	General mechanical and/or local exhaust as needed to meet exposure limits if mist in air. Explosion-proof equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR:	Clear, orange liquid. Orange Odor.
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9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT (F):	212 F	(C) Not determined
VAPOR PRESSURE:	13.7 mm Hg @ 68 F	
VAPOR DENSITY (AIR=1):	Heavier	
SOLUBILITY IN WATER:	Not determined	
SPECIFIC GRAVITY:	1.013 - 1.023	
VOC Content (%):	8.4 @ 110 F	
EVAPORATION RATE:	As water	
PH:	12.0 - 12.5	

10. STABILITY AND REACTIVITY

STABILITY DATA:	STABLE
POLYMERIZATION:	Will Not Occur.
HAZARDOUS DECOMPOSITION:	Incomplete combustion produces: Fumes. Smoke. Carbon Monoxide. Carbon Dioxide.
INCOMPATIBILITY (MATERIALS TO AVOID):	Do not mix with acidic materials. Do not mix with: Strong oxidents, such as nitric acid, or hypochlorites.
CONDITIONS/HAZARDS TO AVOID:	Avoid any source of ignition. Open flames. Welding arcs.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:	Not Established
EFFECTS OF CHRONIC EXPOSURE:	Not established.
OTHER TOXIC EFFECTS:	Not established.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION:	No data at this time
CHEMICAL FATE INFORMATION:	No data at this time.
MOBILITY:	Not applicable.
PERSISTENCE/DEGRADABILITY:	Not applicable
BIOACCUMULATIVE POTENTIAL:	Not applicable
OTHER ADVERSE EFFECTS:	Not applicable

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS:	Dispose in accordance with Federal, State and Local regulations.
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14. TRANSPORT INFORMATION

Please refer to the Bill of Lading/Receiving documents for up to date shipping information.

15. REGULATORY INFORMATION

PRODUCT COMPOSITION CAS#	%	TSCA:	EINECS:	Canada DSL:	CA PROP 65:
Diethylene glycol butyl ether 112-34-5	1 - 5	Listed	Listed	Listed	Not Listed
d-Limonene - combustible 5989-27-5	1 - 5	Listed	Listed	Listed	Not Listed

DFE CITRUS BIO SOLV

PRODUCT COMPOSITION CAS#	%	CERCLA:	SARA 302:	SARA 313:
Diethylene glycol butyl ether 112-34-5	1 - 5	Not Listed	Not Listed	Not Listed
d-Limonene - combustible 5989-27-5	1 - 5	Not Listed	Not Listed	Not Listed

PRODUCT COMPOSITION CAS#	%	Canada WHMIS:
Diethylene glycol butyl ether 112-34-5	1 - 5	Listed
d-Limonene - combustible 5989-27-5	1 - 5	Listed

None of the components of this material are included in the Massachusetts Substance List nor are present at or above reportable levels.

None of the components of this material are included in the New Jersey Substance List nor are present at or above reportable levels.

PRODUCT COMPOSITION CAS#	%	NJRTK:
Diethylene glycol butyl ether 112-34-5	1 - 5	Listed

The following components of this material are included in the Pennsylvania Substance List and are present at or above reportable levels.

PRODUCT COMPOSITION CAS#	%	PARTK:
Diethylene glycol butyl ether 112-34-5	1 - 5	Listed

16. OTHER INFORMATION

This information was compiled from current, reliable sources and is believed to be correct. As data, and/or regulations change, and conditions of use and handling are beyond our control, no warranty, express or implied, is made as to completeness or continuing accuracy of this information.

*** END OF MSDS ***