



# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Material Name** NE-100  
**Revision Date** 4/25/2013  
**Version #** 05  
**Product Use** Non-emulsifier  
**Manufacturer / Supplier** FTS International  
2500 HWY 62 West  
Chickasha, OK 73018  
US  
General information: 1-405-222-2300  
**Emergency** 24 Hour Emergency: INFOTRAC: 1-800-535-5053

## 2. Hazards Identification

**Physical State** Liquid  
**Appearance** Yellow liquid.  
**Emergency Overview** WARNING!  
Causes skin and eye irritation. Mist or vapor irritating to eyes and respiratory tract. Combustible liquid and vapor.  
**OSHA regulatory status** This product is hazardous according to OSHA 29 CFR 1910.1200.  
**Routes of exposure** Inhalation. Eyes. Skin.  
**Eyes** Causes eye irritation.  
**Skin** Causes skin irritation.  
**Inhalation** Causes respiratory tract irritation.  
**Ingestion** No harmful effects expected in amounts likely to be ingested by accident.  
**Potential environmental effects** Not expected to be harmful to aquatic organisms.

## 3. Composition / Information on Ingredients

Components	CAS #	Percent
2-Butoxyethanol	111-76-2	1 - 10
2-Propanol	67-63-0	1 - 10
Dodecylbenzenesulfonic acid	27176-87-0	1 - 5

**Composition comments** All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

## 4. First Aid Measures

**First aid procedures**  
**Eye Contact** Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention. In case of irritation from airborne exposure, move to fresh air. Get medical attention if symptoms persist.  
**Skin Contact** Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.  
**Inhalation** Move to fresh air. Treat symptomatically. Get medical attention if symptoms persist.  
**Ingestion** Seek medical advice.  
**Notes to physician** Not available.

## 5. Fire Fighting Measures

### Flammable Properties

Combustible liquid and vapor. Use water with caution: Material will float and may ignite on the surface of water.

### Extinguishing media

#### Suitable extinguishing media

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

#### Unsuitable extinguishing media

Not available.

#### Specific Hazards arising from the Chemical

Not available.

### Firefighting equipment / instructions

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

### Specific Methods

Use water spray to cool unopened containers.

### Hazardous combustion products

Carbon oxides.

## 6. Accidental Release Measures

### Personal precautions

Wear appropriate personal protective equipment (See Section 8).

### Methods for cleaning up

Absorb spill with vermiculite or other inert material, then place in a container for chemical waste for proper disposal.

Large Spills: Flush area with water. Prevent runoff from entering drains, sewers, or streams. Dike for later disposal.

## 7. Handling and Storage

### Handling

Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Use only with adequate ventilation. Wash thoroughly after handling.

### Storage

Keep away from heat, sparks, and flame. Keep container closed. Store away from incompatible materials (See Section 10).

## 8. Exposure Controls / Personal Protection

### Occupational exposure limits

#### US. ACGIH Threshold Limit Values

Components	TWA		STEL	
	ppm	mg/m3	ppm	mg/m3
2-Butoxyethanol	20	Not available.	Not available.	Not available.
2-Propanol	200	Not available.	400	Not available.
Dodecylbenzenesulfonic acid	Not available.	Not available.	Not available.	Not available.

#### US. OSHA Table Z-1 Limits for Air Contaminates (29 CFR 1910.1000)

Components	PEL	
	ppm	mg/m3
2-Butoxyethanol	50	240
2-Propanol	400	980
Dodecylbenzenesulfonic acid	Not available.	Not available.

#### Canada. Alberta OELs (Occupational Health Safety Code, Schedule 1, Table 2)

Components	TWA		STEL	
	ppm	mg/m3	ppm	mg/m3
2-Butoxyethanol	20	97	Not available.	Not available.
2-Propanol	200	492	400	984
Dodecylbenzenesulfonic acid	Not available.	Not available.	Not available.	Not available.

**Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)**

Components	TWA		STEL	
	ppm	mg/m3	ppm	mg/m3
2-Butoxyethanol	20	Not available.	Not available.	Not available.
2-Propanol	200	Not available.	400	Not available.
Dodecylbenzenesulfonic acid	Not available.	Not available.	Not available.	Not available.

**Canada. Ontario OELs. (Ministry of Labor - Control of Exposure to Biological or Chemical Agents) Components**

Components	TWA		STEL	
	ppm	mg/m3	ppm	mg/m3
2-Butoxyethanol	20	Not available.	Not available.	Not available.
2-Propanol	200	Not available.	400	Not available.
Dodecylbenzenesulfonic acid	Not available.	Not available.	Not available.	Not available.

**Canada. Quebec OELS. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) Components**

Components	TWA		STEL	
	ppm	mg/m3	ppm	mg/m3
2-Butoxyethanol	20	97	Not available.	Not available.
2-Propanol	400	983	500	1230
Dodecylbenzenesulfonic acid	Not available.	Not available.	Not available.	Not available.

**Mexico. Occupational Exposure Limit Values**

Components	TWA		STEL	
	ppm	mg/m3	ppm	mg/m3
2-Butoxyethanol	26	120	75	360
2-Propanol	400	980	500	1225
Dodecylbenzenesulfonic acid	Not available.	Not available.	Not available.	Not available.

**Engineering controls**

Ensure adequate ventilation, especially in confined areas.

**Personal protective equipment**

**Eye / face protection**

Wear safety glasses with side shields (or goggles).

**Skin protection**

Wear chemical-resistant gloves, footwear and protective clothing appropriate for risk of exposure. Contact glove manufacturer for specific information.

**Respiratory protection**

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134. Respirator type: Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister.

**General hygiene consideration**

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and Chemical Properties

**Appearance:** Yellow liquid.

**Color** Yellow.

**Odor** Mild. Citrus

**Odor threshold** Not available.

**Physical State** Liquid

<b>Form</b>	Liquid.
<b>pH</b>	3.55 1%v/v
<b>Melting point</b>	Not available.
<b>Freezing point</b>	28 °F (-2.2 °C)
<b>Boiling point</b>	183.2 °F (84 °C)
<b>Flash point</b>	127.9 °F (53.3 °C) Closed Cup
<b>Evaporation rate</b>	Not available.
<b>Flammability limits in air, upper, % by volume</b>	Not available.
<b>Flammability limits in air, lower, % by volume</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Specific Gravity</b>	0.99 (25°C)
<b>Solubility (water)</b>	Soluble.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Bulk Density</b>	8.26 lb/gal
<b>VOC</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Percent volatile</b>	Not available.

## 10. Chemical Stability Reactivity Information

<b>Chemical Stability</b>	Material is stable under normal conditions.
<b>Conditions to avoid</b>	Keep away from heat, sparks, and flame.
<b>Incompatible material</b>	Strong oxidizing agents.
<b>Hazardous decomposition products</b>	No hazardous decomposition products are known.
<b>Possibility of hazardous reaction</b>	Hazardous polymerization does not occur.

## 11. Toxicology Information

### Toxicological Data

<b>Components</b>	<b>Test Results</b>
2-Butoxyethanol	Not available.
2-Propanol	Not available.
Dodecylbenzenesulfonic acid	Not available.
<b>Sensitization</b>	This material has a low potential to cause allergic skin reactions; however, cases of human skin sensitization have been reported.
<b>Carcinogenicity</b>	
2-Butoxyethanol	A3 Confirmed animal carcinogen with unknown relevance to humans. 3 Not classifiable as to carcinogenicity to humans.
2-Propanol	A4 Not classifiable as a human carcinogen.

Dodecylbenzenesulfonic acid	Not available.
<b>Epidemiology</b>	Not available.
<b>Mutagenicity</b>	Not available.
<b>Reproductive effects</b>	Not available.
<b>Teratogenicity</b>	Not available.
<b>Further Information</b>	Not available.

## 12. Ecological Information

### Ecotoxicological data

Components	Test Results
2-Butoxyethanol	Not available.
2-Propanol	Not available.
Dodecylbenzenesulfonic acid	Not available.
<b>Ecotoxicity</b>	Not expected to be harmful to aquatic organisms.
<b>Persistence and degradability</b>	Not available.
<b>Bioaccumulation / Accumulation</b>	Not available.
<b>Mobility in environmental media</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.

## 13. Disposal Considerations

<b>Waste codes</b>	D001: Waste Flammable material with a flash point <140 °F
<b>Disposal instructions</b>	Dispose of contents/container in accordance with local/regional/national/international regulations. When this product as supplied is to be discarded as waste, it may meet the definition of a RCRA waste under 40 CFR 261.
<b>Contaminated packaging</b>	Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## 14. Transport Information

### DOT

<b>UN number</b>	NA1993
<b>Proper shipping name</b>	Combustible liquid, n.o.s. (2-butoxyethanol 10%)
<b>Hazard class</b>	3
<b>Packing Group</b>	III
<b>Labels required</b>	3
<b>DOT reportable quantity</b>	100
<b>Additional information</b>	
<b>Special provisions</b>	B1, B52, IB3, T4, TP1, TP29
<b>Packaging exceptions</b>	150
<b>Packaging non bulk</b>	203
<b>Packaging bulk</b>	242
<b>ERG number</b>	128

### IATA

<b>UN number</b>	UN1993
<b>Proper shipping name</b>	Combustible liquid, n.o.s. (2-butoxyethanol)
<b>Hazard class</b>	3
<b>Packing group</b>	III
<b>Additional information</b>	

<b>ERG code</b>	3L
<b>IMDG</b>	
<b>UN number</b>	UN1993
<b>Proper shipping name</b>	Combustible liquid, n.o.s. (2-butoxyethanol)
<b>Hazard class</b>	3
<b>Packing group</b>	III
<b>EmS No</b>	F-E, S-E*
<b>IMDG Additional information:</b>	

## 15. Regulatory Information

**US federal regulation** This product is hazardous according to OSHA 29 CFR 1910.1200.  
All components are on the U.S. EPA TSCA Inventory List.

**CERCLA (Superfund) Reportable Quantity:** 2-Propanol : 100lbs  
Dodec ylben zenes ulfonic acid: 1000lbs

### Superfund amendments and Reauthorization Act of 1986 (SARA)

<b>Hazard Categories</b>	Immediate Hazard:	Yes
	Delayed Hazard:	No
	Fire Hazard:	No
	Pressure Hazard:	No
	Reactivity Hazard:	No

TSCA Section 12(b) Export Notification(40 CFR 707, Subpt. D): Not regulated.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration  
2-Butoxyethanol (CAS 111-76-2) 1.0 % N230  
2-Propanol (CAS 67-63-0) 1.0 %

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance  
2-Butoxyethanol (CAS 111-76-2) N230 Listed.  
2-Propanol (CAS 67-63-0) Listed.

Section 302 extremely hazardous substance (40 CFR 355, Appendix A): No

Section 311/312 (40 CFR 370): No

Drug Enforcement Administration (DEA) (21 CFR 1308.11-15): Not controlled

### Inventory Status

Country	Inventory Name	On Inventory *
Australia	AICS	No
Canada	DSL	Yes
Canada	NDSL	No
China	IECSC	No
Europe	EINECS	No
Europe	ELINCS	No
Japan	ENCS	No
Korea	ECL	No
New Zealand	NZI	No
United States / Puerto Rico	TSCA	Yes
Phillipines	PICCS	No

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s).

<b>WHMIS Information</b>	WHMIS status Controlled  WHMIS classification B3 - Flammable/Combustible D2B - Other Toxic Effects-TOXIC
<b>State Regulation</b>	This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.  US - California Hazardous Substances (Director's): Listed substance 2-Butoxyethanol (CAS 111-76-2) Listed. 2-Propanol (CAS 67-63-0) Listed. Dodecylbenzenesulfonic acid (CAS 27176-87-0) Listed.  US - Massachusetts RTK - Substance: Listed substance 2-Butoxyethanol (CAS 111-76-2) Listed. 2-Propanol (CAS 67-63-0) Listed. Dodecylbenzenesulfonic acid (CAS 27176-87-0) Listed.  US - New Jersey Community RTK (EHS Survey): Reportable threshold 2-Butoxyethanol (CAS 111-76-2) 500 LBS 2-Propanol (CAS 67-63-0) 500 LBS  US - New Jersey RTK - Substances: Listed substance 2-Butoxyethanol (CAS 111-76-2) Listed. 2-Propanol (CAS 67-63-0) Listed. Dodecylbenzenesulfonic acid (CAS 27176-87-0) Listed.  US - Pennsylvania RTK - Hazardous Substances: Listed substance 2-Butoxyethanol (CAS 111-76-2) Listed. 2-Propanol (CAS 67-63-0) Listed. Dodecylbenzenesulfonic acid (CAS 27176-87-0) Listed.

## 16. Other Information

<b>Further Information</b>	HMIS® is a registered trade and service mark of the NPCA.
<b>HMIS® ratings</b>	Health: 2 Flammability: 2 Physical Hazard: 0  A HMIS® rating including an * indicates a chronic hazard.
<b>NFPA ratings</b>	Health: 1 Flammability: 2 Instability: 0
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