

# Safety Data Sheet: DIESEL-MATE 2000 ALL SEASONS

Supersedes Date: 10/17/2016

Issuing Date: 01/29/2020

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** DIESEL-MATE 2000 ALL SEASONS

**Recommended use** Fuel additive

**Information on Manufacturer**

CERTIFIED LABS, DIV. OF NCH CORP.

BOX 152170

IRVING, TEXAS 75015

**Product Code:** 0240

**Chemical nature** Petroleum distillates

**Emergency Telephone**

**Telephone inquiry**

972-438-0551

## 2. HAZARD IDENTIFICATION

**Color** Dark red Brown

**Physical state** Liquid

**Odor** Characteristic

### GHS

#### Classification

##### Physical Hazards

Flammable liquids

Category 4

##### Health Hazard

Aspiration Toxicity

Acute Inhalation Toxicity - Vapors

Skin sensitization

Carcinogenicity

Category 1

Category 4

Category 1A

Category 2

##### Other hazards

None

### Labeling

#### Signal Word

**DANGER**



#### Hazard statements

H227 - Combustible liquid

H317 - May cause an allergic skin reaction

H332 - Harmful if inhaled

H304 - May be fatal if swallowed and enters airways

H351 - Suspected of causing cancer

#### Precautionary Statements

P202 - Do not handle until all safety precautions have been read and understood

P210 - Keep away from heat, sparks, open flames or hot surfaces.

P280 - Wear protective gloves, protective clothing and eye protection.

P272 - Contaminated work clothing should not be allowed out of the workplace

P261 - Avoid breathing vapor or mist

P271 - Use in a well-ventilated area.

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P333 + P313 - If skin irritation or rash occurs, get medical attention

P363 - Wash contaminated clothing before reuse

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P312 - Call a physician if unwell.

P301+ P330 + P331 - IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Call a physician if unwell.

P308 + P313 - IF exposed or concerned, get medical attention

P403 + P235 - Store in a well-ventilated place. Keep cool

P501 - Dispose of contents and container in accordance with applicable regulations

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Weight-%
2-Ethylhexyl nitrate	27247-96-7	30-60
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	15-40
Petroleum naphtha, light aromatic	64742-95-6	10-30
1,2,4- Trimethylbenzene	95-63-6	3-7
Naphthalene	91-20-3	3-7

Trimethylbenzene	25551-13-7	1-5
Cumene	98-82-8	0.1-1.0
N,N'-di-sec-butyl-p-phenylenediamine	101-96-2	0.1-1.0
Ethyl benzene	100-41-4	0.1-1.0

\*The exact percentage (concentration) of composition has been withheld as a trade secret

#### 4. FIRST AID MEASURES

<b>General advice</b>	Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists.
<b>Eye Contact</b>	No hazards which require special first aid measures.
<b>Skin Contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention if irritation develops and persists. Wash contaminated clothing before re-use.
<b>Inhalation</b>	If inhaled, remove to fresh air. In case of shortness of breath, give oxygen. If breathing has stopped, apply artificial respiration. Get medical attention immediately.
<b>Ingestion</b>	Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.
<b>Notes to physician</b>	Aspiration hazard if swallowed - can enter lungs and cause damage. May be fatal if swallowed and enters airways. May cause sensitization of susceptible persons.

#### 5. FIRE-FIGHTING MEASURES

<b>Flash Point</b> 154 °F / 68 °C	<b>Method</b> PMCC	
<b>Flammability Limits in Air %:</b> Mixture.	<b>Upper:</b> 7.0	<b>Lower:</b> 0.8
<b>Suitable Extinguishing Media</b>		
Water spray. Foam. Dry chemical. Carbon dioxide (CO <sub>2</sub> ). Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.		
<b>Specific hazards arising from the chemical</b>		
Combustible Liquid. Solvent vapors are heavier than air and may spread along floors. Vapors may ignite and explode. Material can create slippery conditions.		
<b>Protective Equipment and Precautions for Firefighters</b>		
As in any fire, wear self-contained breathing apparatus pressure-demand, NOHSC (approved or equivalent) and full protective gear.		
<b>NFPA</b>	<b>Health</b> 2	<b>Flammability</b> 2
<b>HMIS -</b>	<b>Health</b> 2	<b>Flammability</b> 2
		<b>Instability</b> 0
		<b>Physical Hazard</b> 0

#### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Use personal protective equipment. Remove all sources of ignition. Take precautionary measures against static discharges. Ensure adequate ventilation. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.
<b>Environmental precautions</b>	Do not flush into surface water or sanitary sewer system.
<b>Methods for Containment</b>	Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
<b>Methods for Cleaning Up</b>	Use clean non-sparking tools to collect absorbed material. Pick up and transfer to properly labeled containers.
<b>Neutralizing Agent</b>	Not applicable.

#### 7. HANDLING AND STORAGE

<b>Handling</b>	Keep away from open flames, hot surfaces and sources of ignition. Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists.
<b>Storage</b>	Keep away from heat and sources of ignition. Store in original container. Keep container tightly closed in a dry and well-ventilated place.
<b>Storage Temperature</b>	<b>Minimum</b> 0 °F / -18 °C
<b>Storage Conditions</b>	<b>Maximum</b> 120 °F / 49 °C
	<b>Indoor</b> X <b>Outdoor</b> X <b>Heated</b> <b>Refrigerated</b>

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

##### Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
2-Ethylhexyl nitrate	1 ppm (vendor data)	No data available	No data available
1,2,4- Trimethylbenzene	TWA: 25 ppm	No data available	TWA: 25 ppm TWA: 125 mg/m <sup>3</sup>
Naphthalene	TWA: 10 ppm Skin	TWA: 10 ppm TWA: 50 mg/m <sup>3</sup>	250 ppm STEL 15 ppm STEL 75 mg/m <sup>3</sup>

			TWA: 10 ppm TWA: 50 mg/m <sup>3</sup>
Trimethylbenzene	TWA: 25 ppm	No data available	No data available
Cumene	TWA: 50 ppm	TWA: 50 ppm TWA: 245 mg/m <sup>3</sup> Skin	900 ppm TWA: 50 ppm TWA: 245 mg/m <sup>3</sup>
Ethyl benzene	TWA: 20 ppm	TWA: 100 ppm TWA: 435 mg/m <sup>3</sup>	800 ppm STEL 125 ppm STEL 545 mg/m <sup>3</sup> TWA: 100 ppm TWA: 435 mg/m <sup>3</sup>

**Engineering Measures** Ensure adequate ventilation, especially in confined areas. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

**Personal Protective Equipment**

**Eye/Face Protection**

Safety glasses with side-shields.

**Skin Protection**

Wear suitable protective clothing, Impervious gloves.

**Respiratory Protection**

In case of inadequate ventilation wear respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**General Hygiene Considerations**

Ensure that eyewash stations and safety showers are close to the workstation location. Remove and wash contaminated clothing before re-use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state</b>	Liquid	<b>Viscosity</b>	Non viscous
<b>Color</b>	Dark red Brown	<b>Odor</b>	Characteristic
<b>Odor Threshold</b>	Not applicable	<b>Appearance</b>	Transparent
<b>pH</b>	Not applicable	<b>Specific Gravity</b>	0.92
<b>Evaporation Rate</b>	No data available	<b>Percent Volatile (Volume)</b>	No data available
<b>VOC Content (%)</b>	8.1	<b>VOC Max Use Dilution (g/L)</b>	No data available
<b>VOC Content (g/L)</b>	74.5	<b>Vapor pressure</b>	1.38 mmHg @ 70°F
<b>Vapor Density</b>	No information available	<b>Solubility</b>	Negligible
<b>n-Octanol/Water Partition</b>	No data available	<b>Melting Point/Range</b>	No data available
<b>Decomposition Temperature</b>	No data available	<b>Boiling Point/Range</b>	No data available
<b>Flammability (solid, gas)</b>	No data available	<b>Method</b>	PMCC
<b>Flash Point</b>	154 °F / 68 °C	<b>Upper: 7.0 Lower: 0.8</b>	
<b>Autoignition Temperature</b>	No information available.		
<b>Flammability Limits in Air %:</b>	Mixture		

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable. Hazardous polymerization does not occur.
<b>Conditions to Avoid</b>	Keep away from open flames, hot surfaces, and sources of ignition, Protect from direct sunlight and extremes of temperatures.
<b>Incompatible Products</b>	Strong oxidizing agents.
<b>Decomposition Temperature</b>	No data available
<b>Hazardous Decomposition Products</b>	Carbon oxides, Nitrogen oxides (NOx), Hydrocarbons.
<b>Possibility of Hazardous Reactions</b>	None under normal processing.

## 11. TOXICOLOGICAL INFORMATION

Product Information No information available.

**The following values are calculated based on chapter 3.1 of the GHS document**

<b>Oral LD50</b>	No information available
<b>Dermal LD50</b>	No information available
<b>Inhalation LC50</b>	
<b>Gas</b>	No information available
<b>Mist</b>	No information available
<b>Vapor</b>	No information available

**Principle Route of Exposure** Inhalation, Skin contact, Ingestion.

**Primary Routes of Entry** Skin contact, Skin Absorption.

**Acute Effects:**

**Eyes**

Low hazard for usual industrial or commercial handling.

**Skin**

May cause allergic skin reaction.

**Inhalation**

Harmful by inhalation.

**Ingestion**

Harmful or fatal if swallowed. Aspiration hazard if swallowed - can enter lungs and cause damage. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Chronic Toxicity**

May cause sensitization by skin contact. Contains a known or suspected carcinogen.

**Target Organ Effects:**  
**Aggravated Medical Conditions**

Blood, Central nervous system, Kidney, Liver, Respiratory system, Skin, Eyes.  
Kidney disorders, Liver disorders, Blood disorders, Neurological disorders, Skin disorders, Respiratory disorders.

## Component Information

**Acute Toxicity**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50	Draize Test	Other
2-Ethylhexyl nitrate 27247-96-7	> 9600 mg/kg ( Rat )	> 4800 mg/kg ( Rabbit )	> 14 mg/L ( Rat ) 4 h	No data available	No data available
Solvent Naphtha (petroleum), heavy aromatic 64742-94-5	> 5000 mg/kg ( Rat )	> 2 mL/kg ( Rabbit )	> 590 mg/m <sup>3</sup> ( Rat ) 4 h	No data available	No data available
Petroleum naphtha, light aromatic 64742-95-6	= 8400 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	= 3400 ppm ( Rat ) 4 h	No data available	No data available
1,2,4- Trimethylbenzene 95-63-6	= 3280 mg/kg ( Rat ) = 8970 mg/kg ( Rat )	> 3160 mg/kg ( Rabbit )	= 18 g/m <sup>3</sup> ( Rat ) 4 h	No data available	No data available
Naphthalene 91-20-3	= 1110 mg/kg ( Rat ) = 490 mg/kg ( Rat )	= 1120 mg/kg ( Rabbit ) > 20 g/kg ( Rabbit )	> 340 mg/m <sup>3</sup> ( Rat ) 1 h	No data available	No data available
Trimethylbenzene 25551-13-7	= 8970 mg/kg ( Rat )	no data available	No data available	No data available	No data available
Cumene 98-82-8	= 1400 mg/kg ( Rat )	= 12300 µL/kg ( Rabbit )	= 39000 mg/m <sup>3</sup> ( Rat ) 4 h h > 3577 ppm ( Rat ) 6 h	No data available	No data available
N,N'-di-sec-butyl-p- phenylenediamine 101-96-2	= 148 mg/kg ( Rat )	= 2806 mg/kg ( Rabbit )	> 0.2 mg/L ( Rat ) 6 h	No data available	No data available
Ethyl benzene 100-41-4	= 3500 mg/kg ( Rat )	15354 mg/kg ( Rabbit )	= 17.2 mg/L ( Rat ) 4 h	No data available	No data available

**Chronic Toxicity**

Chemical name	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
1,2,4- Trimethylbenzene 95-63-6	No data available	No data available	No data available	No data available	Blood; Skin; Central nervous system; Eyes; Respiratory system
Naphthalene 91-20-3	No data available	No data available	No data available	No data available	Blood; Skin; Central nervous system; Eyes; Liver; Kidney
Cumene 98-82-8	No data available	No data available	No data available	No data available	Skin; Central nervous system; Eyes; Respiratory system
N,N'-di-sec-butyl-p- phenylenediamine 101-96-2	No data available	Skin sensitization	No data available	No data available	No data available
Ethyl benzene 100-41-4	No data available	No data available	No data available	No data available	Skin; Central nervous system; Eyes; Respiratory system

**Carcinogenicity**

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA	Other
Naphthalene 91-20-3	A3	Group 2B	Reasonably Anticipated	not applicable	KMOL cat2
Cumene 98-82-8	Not applicable	Group 2B	Reasonably Anticipated	X	Not applicable
Ethyl benzene 100-41-4	A3	Group 2B	Not applicable	X	Not applicable

**12. ECOLOGICAL INFORMATION**

Product Information No information available.

Additional Ecological Information: No information available

## Component Information

Chemical name	Toxicity to Algae	Toxicity to Fish	Microtox	Crustacea	Partition coefficient
2-Ethylhexyl nitrate	No information available.	LC50 = 116 mg/L <i>Salmo gairdneri</i> 48 h	EC50 = 100 mg/L 15 min	No information available.	4.14
Solvent Naphtha (petroleum), heavy aromatic	EC50 = 2.5 mg/L <i>Skeletonema costatum</i> 72 h	LC50 = 19 mg/L <i>Pimephales promelas</i> 96 h LC50 = 2.34 mg/L <i>Oncorhynchus mykiss</i> 96 h LC50 = 41 mg/L <i>Pimephales promelas</i> 96 h LC50 = 1740 mg/L <i>Lepomis</i>	No information available	0.95: 48 h <i>Daphnia magna</i> mg/L EC50	6.1

		macrochirus 96 h LC50 = 45 mg/L Pimephales promelas 96 h			
Petroleum naphtha, light aromatic	No information available.	LC50 = 9.22 mg/L Oncorhynchus mykiss 96 h	No information available	6.14: 48 h Daphnia magna mg/L EC50	N/A
1,2,4- Trimethylbenzene	No information available.	LC50 7.19 - 8.28 mg/L Pimephales promelas 96 h LC50 = 7.72 mg/L Pimephales promelas 96 h	No information available	6.14: 48 h Daphnia magna mg/L EC50	3.63
Naphthalene	EC50 = 0.4 mg/L Skeletonema costatum 72 h	LC50 = 1.6 mg/L Oncorhynchus mykiss 96 h LC50 5.74 - 6.44 mg/L Pimephales promelas 96 h LC50 = 31.0265 mg/L Lepomis macrochirus 96 h LC50 0.91 - 2.82 mg/L Oncorhynchus mykiss 96 h LC50 = 1.99 mg/L Pimephales promelas 96 h	EC50 = 0.93 mg/L 30 min EC50 > 20 mg/L 18 h	2.16: 48 h Daphnia magna mg/L LC50 1.96: 48 h Daphnia magna mg/L EC50 Flow through 1.09 - 3.4: 48 h Daphnia magna mg/L EC50 Static	3.6
Trimethylbenzene	No information available.	LC50 = 7.72 mg/L Pimephales promelas 96 h	No information available	No information available.	N/A
Cumene	EC50 = 2.6 mg/L Pseudokirchneriella subcapitata 72 h	LC50 6.04 - 6.61 mg/L Pimephales promelas 96 h LC50 = 5.1 mg/L Poecilia reticulata 96 h LC50 = 4.8 mg/L Oncorhynchus mykiss 96 h LC50 = 2.7 mg/L Oncorhynchus mykiss 96 h	EC50 = 0.89 mg/L 5 min EC50 = 1.10 mg/L 15 min EC50 = 1.48 mg/L 30 min EC50 = 172 mg/L 24 h	0.6: 48 h Daphnia magna mg/L EC50 7.9 - 14.1: 48 h Daphnia magna mg/L EC50 Static	3.7
Ethyl benzene	EC50 = 11 mg/L Pseudokirchneriella subcapitata 72 h EC50 2.6 - 11.3 mg/L Pseudokirchneriella subcapitata 72 h EC50 = 4.6 mg/L Pseudokirchneriella subcapitata 72 h EC50 1.7 - 7.6 mg/L Pseudokirchneriella subcapitata 96 h EC50 > 438 mg/L Pseudokirchneriella subcapitata 96 h	LC50 11.0 - 18.0 mg/L Oncorhynchus mykiss 96 h LC50 = 4.2 mg/L Oncorhynchus mykiss 96 h LC50 = 32 mg/L Lepomis macrochirus 96 h LC50 7.55 - 11 mg/L Pimephales promelas 96 h LC50 9.1 - 15.6 mg/L Pimephales promelas 96 h LC50 = 9.6 mg/L Poecilia reticulata 96 h	EC50 = 9.68 mg/L 30 min EC50 = 96 mg/L 24 h	1.8 - 2.4: 48 h Daphnia magna mg/L EC50	3.2

**Persistence and Degradability** No information available.  
**Bioaccumulation** No information available.  
**Mobility** No information available.

### 13. DISPOSAL CONSIDERATIONS

**Product Disposal** Dispose of in accordance with local regulations.  
**Container Disposal** Empty containers should be taken for local recycling, recovery, or waste disposal.

### 14. TRANSPORT INFORMATION

#### DOT

**Proper Shipping Name** PETROLEUM DISTILLATES, N.O.S.  
**Hazard Class** 3  
**UN-No** UN1268  
**Packing Group** III  
**Marine Pollutant** This product contains a chemical which is listed as a marine pollutant according to DOT.  
**Description** UN1268, PETROLEUM DISTILLATES, N.O.S., 3, PG III (>119 gallons - < 119 Not Regulated)

#### TDG

**Proper shipping name** PETROLEUM DISTILLATES, N.O.S.  
**Hazard Class** 3  
**UN-No** UN1268  
**Packing Group** III  
**Marine Pollutant** This product contains a chemical which is listed as a marine pollutant according to TDG.  
**Description** UN1268, PETROLEUM DISTILLATES, N.O.S., 3, PG III (>119 gallons - < 119 Not Regulated)

## ICAO

UN-No UN3082  
 Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.,(2-ETHYLHEXYL NITRATE)  
 Hazard Class 9  
 Packing Group III  
 Shipping Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S.,(2-ETHYLHEXYL NITRATE),9,III, MARINE POLLUTANT

## IATA

UN-No UN3082  
 Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.,(2-ETHYLHEXYL NITRATE)  
 Hazard Class 9  
 Packing Group III  
 Shipping Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.,(2-ETHYLHEXYL NITRATE),9,III, MARINE POLLUTANT

## IMDG/IMO

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.,(2-ETHYLHEXYL NITRATE)  
 Hazard Class 9  
 UN Number UN3082  
 Packing Group III  
 EmS No. F-E, S-E  
 Marine Pollutant This product contains a chemical which is listed as a marine pollutant according to IMDG/IMO  
 Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.,(2-ETHYLHEXYL NITRATE),9,III, MARINE POLLUTANT

## 15. REGULATORY INFORMATION

## Inventories

TSCA Complies  
 DSL Complies

## U.S. Federal Regulations

## SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical name	CAS No.	Weight-%	SARA 313 - Threshold Values
1,2,4- Trimethylbenzene	95-63-6	7-13	1.0
Naphthalene	91-20-3	1-5	0.1
Cumene	98-82-8	1-5	1.0
Xylenes (o-, m-, p- isomers)	1330-20-7	1-5	1.0
Ethyl benzene	100-41-4	0.1-1	0.1

## SARA 311/312 Hazardous Categorization

See Section 2

## CERCLA

Chemical name	Hazardous Substances RQs	CERCLA EHS RQs
Naphthalene	100 lb 1 lb	Not applicable
Cumene	5000 lb	Not applicable
Ethyl benzene	1000 lb	Not applicable

## 16. OTHER INFORMATION

Prepared By Adrienne McKee  
 Supersedes Date: 10/17/2016  
 Issuing Date: 01/29/2020  
 Reason for Revision No information available.  
 Glossary No information available.  
 List of References. No information available.

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