Safety Data Sheet DIESEL-MATE 2000 ALL SEASONS

Supercedes Date 06/23/2014 **Issuing Date** 10/17/2016

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 Number
CHEMTREC® 800-424-9300
Telephone inquiry
972-579-2477

2. HAZARD IDENTIFICATION

Color Orange - Brown **Physical state** Liquid **Odor** Petroleum distillates

GHS Classification

Physical Hazards

Flammable liquids	Category 4

Health Hazard

Aspiration Toxicity	Category 1
Acute Inhalation Toxicity - Gas	Category 2
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin Corrosion/Irritation	Category 2
Skin sensitization	Category 1
Carcinogenicity	Category 2

Other hazards
None

Labeling
Signal Word
DANGER

Hazard statements
H227 - Combustible liquid
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H330 - Fatal 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.
P264 - Wash face, hands and any exposed skin thoroughly after handling
P272 - Contaminated work clothing should not be allowed out of the workplace
P260 - Do not breathe vapor, mist or gas
P271 - Use in a well-ventilated area.
P285 - In case of inadequate ventilation wear respiratory protection
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P333 + P313 - If skin irritation or rash occurs, get medical attention
P362 - Take off contaminated clothing and wash before reuse
P304 + P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
P310 - Immediately call a physician
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 local regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No.	Weight %
2-Ethylhexyl nitrate	27247-96-7	30-60
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	10-30
Petroleum naphtha, light aromatic	64742-95-6	10-30
Pseudocumene	95-63-6	7-13
Naphthalene	91-20-3	1-5
1,3,5-Trimethylbenzene	108-67-8	1-5
Propyl benzene	103-65-1	1-5
Cumene	98-82-8	1-5
Xylenes (o-, m-, p- isomers)	1330-20-7	1-5
Ethyl benzene	100-41-4	0.1-1
N,N'-di-sec-butyl-p-phenylenediamine	101-96-2	0.1-1

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

4. FIRST AID MEASURES

General advice Do not breathe vapors, mist or gas. Do not get in eyes, on skin or on clothing.

Eye Contact Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if irritation develops and persists.

Skin Contact 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.

Inhalation 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.

Ingestion Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.

Notes to physician 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

Flash Point 147 °F / 64 °C **Method** Seta closed cup

Flammability Limits in Air %: Mixture. **Upper:** 6.5 **Lower:** 0.8

Suitable Extinguishing Media

Water spray. Foam. Dry chemical. Carbon dioxide (CO2).

Specific hazards arising from the chemical

Combustible Liquid. Solvent vapors are heavier than air and may spread along floors. Vapors may ignite and explode. Material can create slippery conditions.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, NOHSC (approved or equivalent) and full protective gear.

NFPA	**Health** 3	**Flammability** 2	**Instability** 0
HMIS	**Health** 3	**Flammability** 2	**Instability** 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions 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.

Environmental Precautions Do not flush into surface water or sanitary sewer system.

Methods for Containment 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).

Methods for Cleaning Up Use clean non-sparking tools to collect absorbed material. Pick up and transfer to properly labeled containers.

Neutralizing Agent Not applicable.

7. HANDLING AND STORAGE

Handling Keep away from open flames, hot surfaces and sources of ignition. Do not breathe vapors, mist or gas. Avoid contact with skin, eyes and clothing.

Storage Keep away from heat and sources of ignition. Store in original container. Keep container tightly closed in a dry and well-ventilated place.

Storage Temperature **Minimum** 0 °F / -18 °C **Maximum** 120 °F / 49 °C

Storage Conditions **Indoor** X **Outdoor** X **Heated** **Refrigerated**

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH
2-Ethylhexyl nitrate	1 ppm (vendor data)	No data available	No data available
Pseudocumene	TWA: 25 ppm	No data available	TWA: 25 ppm TWA: 125 mg/m^3
Naphthalene	TWA: 10 ppm Skin	TWA: 10 ppm TWA: 50 mg/m^3	250 ppm STEL 15 ppm STEL 75 mg/m^3 TWA: 10 ppm TWA: 50 mg/m^3
1,3,5-Trimethylbenzene	TWA: 25 ppm	No data available	TWA: 25 ppm TWA: 125 mg/m^3
Cumene	TWA: 50 ppm	TWA: 50 ppm TWA: 245 mg/m^3 Skin	900 ppm TWA: 50 ppm TWA: 245 mg/m^3
Xylenes (o-, m-, p- isomers)	TWA: 100 ppm STEL: 150 ppm	TWA: 100 ppm TWA: 435 mg/m^3	No data available
Ethyl benzene	TWA: 20 ppm	TWA: 100 ppm TWA: 435 mg/m^3	800 ppm STEL 125 ppm STEL 545 mg/m^3 TWA: 100 ppm TWA: 435 mg/m^3

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

Physical state	Liquid	**Viscosity**	Non viscous
Color	Orange - Brown	**Odor**	Petroleum distillates
Odor Threshold	Not applicable	**Appearance**	Transparent
pH	Not applicable	**Specific Gravity**	0.92
Evaporation Rate	0.17 (Butyl acetate=1)	**Percent Volatile (Volume)**	99.7
VOC Content (%)	99.7	**VOC Content (g/L)**	917
Vapor Pressure	0.78 mmHg @ 70°F	**Vapor Density**	9.6 (Air = 1.0)
Solubility	Negligible	**n-Octanol/Water Partition**	No data available
Melting Point/Range	No data available	**Decomposition Temperature**	No data available
Boiling Point/Range	> 320 °F / 160 °C	**Flammability (solid, gas)**	No data available
Flash Point	147 °F / 64 °C	**Method**	Seta closed cup
Autoignition Temperature	No information available.		
Flammability Limits in Air %:	Mixture	**Upper:** 6.5 **Lower:** 0.8	

10. STABILITY AND REACTIVITY

Chemical Stability	Stable. Hazardous polymerization does not occur.
Conditions to Avoid	Keep away from open flames, hot surfaces, and sources of ignition.
Incompatible Products	Strong oxidizing agents.
Decomposition Temperature	No data available
Hazardous Decomposition Products	Carbon oxides, Nitrogen oxides (NOx), Hydrocarbons.
Possibility of Hazardous Reactions	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

Oral LD50 No information available

Dermal LD50 No information available

Inhalation LC50

Gas No information available

Mist No information available
Vapor No information available

Principle Route of Exposure Inhalation, Skin contact, Eye contact.
Primary Routes of Entry Skin contact, Skin Absorption.
Acute Effects:
Eyes May cause slight irritation.
Skin Causes skin irritation. May cause allergic skin reaction. Components of the product create formation of methaemoglobin.
Inhalation May cause irritation of respiratory tract. Inhalation may cause central nervous system effects. May cause central nervous system depression. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Toxic by inhalation.
Ingestion 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 Blood, Central nervous system, Kidney, Liver, Respiratory system, Skin, Eyes.
Aggravated Medical Conditions Kidney disorders, Liver disorders, Blood disorders, Neurological disorders, Skin disorders, Respiratory disorders.

Component Information

Acute Toxicity

Component	Oral LD50	Dermal LD50	Inhalation LC50	Draize Test	Other
2-Ethylhexyl nitrate 27247-96-7	> 2000 mg/kg (Rat)	> 4820 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^3 (Rat) 4 h	No data available	No data available
Petroleum naphtha, light aromatic 64742-95-6	No data available	> 2000 mg/kg (Rabbit)	= 3400 ppm (Rat) 4 h	No data available	No data available
Pseudocumene 95-63-6	= 3280 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	= 18 g/m^3 (Rat) 4 h	No data available	No data available
Naphthalene 91-20-3	= 1110 mg/kg (Rat)	= 1120 mg/kg (Rabbit)	> 340 mg/m^3 (Rat) 1 h	No data available	No data available
1,3,5-Trimethylbenzene 108-67-8	No data available	no data available	= 24 g/m^3 (Rat) 4 h	No data available	No data available
Propyl benzene 103-65-1	No data available	no data available	= 65000 ppm (Rat) 2 h	No data available	No data available
Cumene 98-82-8	= 1400 mg/kg (Rat)	= 12300 µL/kg (Rabbit)	> 3577 ppm (Rat) 6 h	No data available	No data available
Xylenes (o-, m-, p- isomers) 1330-20-7	= 4300 mg/kg (Rat)	> 1700 mg/kg (Rabbit)	= 29.08 mg/L (Rat) 4 h > 5.04 mg/L (Rat) 4 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

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Pseudocumene 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
1,3,5-Trimethylbenzene 108-67-8	No data available	No data available	No data available	No data available	Blood; Skin; Central nervous system; Eyes; Respiratory system
Cumene 98-82-8	No data available	No data available	No data available	No data available	Skin; Central nervous system; Eyes; Respiratory system
Ethyl benzene 100-41-4	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

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

Component	ACGIH	IARC	NTP	OSHA	Other
Naphthalene 91-20-3	not applicable	Group 2B	not applicable	not applicable	not applicable
Cumene 98-82-8	not applicable	Group 2B	not applicable	X	not applicable
Xylenes (o-, m-, p- isomers) 1330-20-7	not applicable	Group 3	not applicable	not applicable	not applicable
Ethyl benzene 100-41-4	A3	Group 2B	not applicable	X	not applicable

12. ECOLOGICAL INFORMATION

Product Information No information available.

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Crustacea	Partition coefficien
2-Ethylhexyl nitrate	No information available.	No information available.	EC50 = 100 mg/L 15 min	No information available.	4.14
Solvent Naphtha (petroleum), heavy aromatic	No information available.	LC50 = 19 mg/L Pimephales promelas 96 h LC50 = 2.34 mg/L Oncorhynchus mykiss 96 h LC50 = 1740 mg/L Lepomis macrochirus 96 h LC50 = 45 mg/L Pimephales promelas 96 h LC50 = 41 mg/L Pimephales promelas 96 h	No information available	0.95: 48 h Daphnia magna mg/L EC50	6.1
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
Pseudocumene	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	No information available.	LC50 5.74 - 6.44 mg/L Pimephales promelas 96 h LC50 = 1.6 mg/L Oncorhynchus mykiss 96 h LC50 0.91 - 2.82 mg/L Oncorhynchus mykiss 96 h LC50 = 1.99 mg/L Pimephales promelas 96 h LC50 = 31.0265 mg/L Lepomis macrochirus 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	3.3
1,3,5-Trimethylbenzene	No information available.	LC50 = 3.48 mg/L Pimephales promelas 96 h LC50 = 7.72 mg/L Pimephales promelas 96 h	No information available	No information available.	N/A
Propyl benzene	No information available.	No information available.	No information available	No information available.	3.68
Cumene	EC50 = 2.6 mg/L Pseudokirchneriella subcapitata 72 h	LC50 6.04 - 6.61 mg/L Pimephales promelas 96 h LC50 = 4.8 mg/L Oncorhynchus mykiss 96 h LC50 = 2.7 mg/L Oncorhynchus mykiss 96 h LC50 = 5.1 mg/L Poecilia reticulata 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	3.55
Xylenes (o-, m-, p- isomers)	EC50 = 11 mg/L Pseudokirchneriella subcapitata 72 h	LC50 = 13.4 mg/L Pimephales promelas 96 h LC50 2.661 - 4.093 mg/L Oncorhynchus mykiss 96 h LC50 13.5 - 17.3 mg/L Oncorhynchus mykiss 96 h LC50 13.1 - 16.5 mg/L Lepomis macrochirus 96 h LC50 = 19 mg/L Lepomis macrochirus 96 h LC50 7.711 - 9.591 mg/L Lepomis macrochirus 96 h LC50 23.53 - 29.97 mg/L Pimephales promelas 96 h LC50 = 780 mg/L Cyprinus carpio 96 h LC50 > 780 mg/L Cyprinus carpio 96 h LC50 30.26 - 40.75 mg/L Poecilia reticulata 96 h	EC50 = 0.0084 mg/L 24 h	3.82: 48 h water flea mg/L EC50 0.6: 48 h Gammarus lacustris mg/L LC50	3.15
Ethyl benzene	EC50 = 11 mg/L Pseudokirchneriella subcapitata 72 h EC50 = 4.6 mg/L Pseudokirchneriella subcapitata 72 h EC50 > 438 mg/L Pseudokirchneriella subcapitata 96 h EC50 2.6 - 11.3 mg/L	LC50 11.0 - 18.0 mg/L Oncorhynchus mykiss 96 h LC50 = 4.2 mg/L Oncorhynchus mykiss 96 h LC50 7.55 - 11 mg/L Pimephales promelas 96 h LC50 = 32 mg/L Lepomis macrochirus 96 h LC50 9.1 - 15.6 mg/L Pimephales promelas 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	3.118

	Pseudokirchneriella subcapitata 72 h EC50 1.7 - 7.6 mg/L Pseudokirchneriella subcapitata 96 h	LC50 = 9.6 mg/L Poecilia reticulata 96 h			

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, PGIII (>119 gallon - < 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,III, Marine Pollutant(>119 gallons- <119 gallons not regulated)

ICAO
- **UN-No** UN3082
- **Hazard Class** 9
- **Packing Group** III
- **Shipping Description** UN3082, Environmentally hazardous substance, n.o.s.,(2-ethylhexyl nitrate),9,III, Marine Pollutant

IATA
- **UN-No** UN3082
- **Hazard Class** 9
- **Packing Group** III
- **Shipping Description** UN3082, Environmentally hazardous substance, n.o.s.,(2-ethylhexyl nitrate),9,III, Marine Pollutant

IMDG/IMO
- **Proper Shipping Name** Environmentally hazardous substance, n.o.s.,(2,ethylhexyl nitrate)
- **Hazard Class** 9
- **UN-No** 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, 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:

Component	CAS No.	Weight %	SARA 313 - Threshold Values
Pseudocumene	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

Acute Health Hazard	Chronic Health Hazard	Fire Hazard	Sudden Release of Pressure Hazard	Reactive Hazard
Yes	Yes	Yes	No	No

CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
Naphthalene	100 lb 1 lb	Not applicable
Cumene	5000 lb	Not applicable
Xylenes (o-, m-, p- isomers)	100 lb	Not applicable
Ethyl benzene	1000 lb	Not applicable

16. OTHER INFORMATION

Prepared By Samantha Purvis
Supercedes Date 06/23/2014
Issuing Date 10/17/2016
Reason for Revision No information available.
Glossary No information available.
List of References. No information available.

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