

Material Safety Data Sheet: ARCTIC DIESEL MATE

Supersedes Date Not applicable

Issuing Date 10/27/2011

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name ARCTIC DIESEL MATE
Recommended use Fuel additive
Information on Manufacturer
 CERTIFIED LABS, DIV. OF NCH CORP.
 BOX 152170
 IRVING, TEXAS 75015

Product Code 943J
Chemical nature Petroleum distillates
Emergency Telephone Number
 CHEMTREC® 1-800-424-9300

2. HAZARDS IDENTIFICATION

<p>Emergency Overview WARNING Combustible liquid and vapor May be harmful if inhaled Causes skin irritation Causes eye irritation May be harmful if swallowed</p>
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Color Light yellow	Physical State Liquid	Odor Petroleum distillates
Potential Health Effects		
Principle Route of Exposure	Inhalation, Skin contact, Eye contact.	
Primary Routes of Entry	Inhalation, Skin Absorption.	
Acute Effects		
Eyes	Causes eye irritation.	
Skin	Causes skin irritation. May be absorbed through the skin in harmful amounts. Blood disorder may occur after prolonged skin contact.	
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. Blood disorder may occur after prolonged inhalation. Methemoglobinemia. Lowered blood pressure.	
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Causes headache, drowsiness or other effects to the central nervous system. Blood disorder may occur after ingestion. Methemoglobinemia. Lowered blood pressure. Bloody urine. Aspiration hazard if swallowed - can enter lungs and cause damage. May be fatal if swallowed and enters airways.	
Chronic Toxicity	Repeated and prolonged exposure to solvents may cause brain and nervous system damage. Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood. Prolonged skin contact may defat the skin and produce dermatitis. Contains a known or suspected carcinogen. Suspect reproductive hazard - contains material which may injure unborn child.	
Target Organ Effects	Blood, Central nervous system, Peripheral Nervous System (PNS), Kidney, Liver, Respiratory system, Skin, Ears, Cardiovascular system, Heart.	
Aggravated Medical Conditions	Kidney disorders, Liver disorders, Blood disorders, Neurological disorders, Skin disorders, Respiratory disorders, Heart disease.	
Potential Environmental Effects	See Section 12 for additional Ecological information.	

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No
2-Ethylhexyl nitrate	27247-96-7
Naphtha (petroleum), heavy aromatic	64742-94-5
Dipropylene glycol mono methyl ether	34590-94-8
Petroleum naphtha, light aromatic	64742-95-6
Pseudocumene	95-63-6
Naphthalene	91-20-3
1,3,5-Trimethylbenzene	108-67-8
Xylenes (o-, m-, p- isomers)	1330-20-7
Propyl benzene	103-65-1
Cumene	98-82-8
2-Ethyl hexanol	104-76-7
Ethyl benzene	100-41-4
1,2,3-Trimethylbenzene	526-73-8

4. FIRST AID MEASURES

General Advice	Avoid breathing vapors or mists. Avoid contact with skin, eyes and 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. Get medical attention if symptoms occur.
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	Since reversion of methemoglobin to hemoglobin occurs spontaneously after termination of exposure, moderate degrees of cyanosis need to be treated only by supportive measures. Aspiration hazard if swallowed - can enter lungs and cause damage.

5. FIRE-FIGHTING MEASURES

Flash Point	155 °F / 68 °C	Method	Seta closed cup
Autoignition Temperature	No information available.		
Flammability Limits in Air % Mixture.		Upper 7.0	Lower 0.6
Suitable Extinguishing Media	Water spray. Foam. Dry chemical. Carbon dioxide (CO2). Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.		
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, MSHA/NIOSH (approved or equivalent) and full protective gear.		
NFPA	Health 2	Flammability 2	Instability 0

HMIS

Health 2

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
Storage

Avoid breathing vapors or mists. Avoid contact with skin, eyes and clothing.

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
Storage Conditions

Minimum -60 °F / -51 °C **Maximum** 120 °F / 49 °C

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
Naphtha (petroleum), heavy aromatic	No data available	No data available	No data available
Dipropylene glycol mono methyl ether	TWA: 100 ppm Skin STEL: 150 ppm	TWA: 100 ppm TWA: 600 mg/m ³ Skin	IDLH: 600 ppm STEL 150 ppm STEL 900 mg/m ³ TWA: 100 ppm TWA: 600 mg/m ³
Petroleum naphtha, light aromatic	No data available	No data available	No data available
Pseudocumene	No data available	No data available	TWA: 25 ppm TWA: 125 mg/m ³
Naphthalene	TWA: 10 ppm Skin STEL: 15 ppm	TWA: 10 ppm TWA: 50 mg/m ³	IDLH: 250 ppm STEL 15 ppm STEL 75 mg/m ³ TWA: 10 ppm TWA: 50 mg/m ³
1,3,5-Trimethylbenzene	No data available	No data available	TWA: 25 ppm TWA: 125 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
Propyl benzene	No data available	No data available	No data available
Cumene	TWA: 50 ppm	TWA: 50 ppm TWA: 245 mg/m ³ Skin	IDLH: 900 ppm TWA: 50 ppm TWA: 245 mg/m ³
2-Ethyl hexanol	No data available	No data available	No data available
Ethyl benzene	TWA: 20 ppm	TWA: 100 ppm TWA: 435 mg/m ³	IDLH: 800 ppm STEL 125 ppm STEL 545 mg/m ³ TWA: 100 ppm TWA: 435 mg/m ³
1,2,3-Trimethylbenzene	No data available	No data available	TWA: 25 ppm TWA: 125 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	Light yellow	Odor	Petroleum distillates
Appearance	Transparent	pH	Not applicable
Specific Gravity	0.923	Evaporation Rate	0.12 (Butyl acetate=1)
Percent Volatile (Volume)	100	VOC Content (%)	100
VOC Content (g/L)	923	Vapor Pressure	0.55 mmHg @ 70°F
Vapor Density	8.6 (Air = 1.0)	Solubility	Negligible
Boiling Point/Range	No data available		

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, Reducing agents, Acids.

Hazardous Decomposition Products

Carbon oxides, Nitrogen oxides (NOx), Aldehydes.

Possibility of Hazardous Reactions

None under normal processing

11. TOXICOLOGICAL INFORMATION

Product Information

No information available.

Component Information

Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
2-Ethylhexyl nitrate	> 2000 mg/kg (Rat)	> 4820 mg/kg (Rabbit)	> 14 mg/L (Rat) 4 h > 4.6 mg/L (Rat) 1 h	no data available	no data available

Naphtha (petroleum), heavy aromatic	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 590 mg/m ³ (Rat) 4 h	no data available	no data available
Dipropylene glycol mono methyl ether	= 5230 mg/kg (Rat)	= 9500 mg/kg (Rabbit)	no data available	no data available	no data available
Petroleum naphtha, light aromatic	= 8400 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 3400 ppm (Rat) 4 h > 5.2 mg/L (Rat) 4 h	no data available	no data available
Pseudocumene	= 3400 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	= 18 g/m ³ (Rat) 4 h	no data available	no data available
Naphthalene	= 490 mg/kg (Rat)	> 20 g/kg (Rabbit) > 2500 mg/kg (Rat)	> 340 mg/m ³ (Rat) 1 h	no data available	no data available
1,3,5-Trimethylbenzene	= 5000 mg/kg (Rat)	no data available	= 24 g/m ³ (Rat) 4 h	no data available	no data available
Xylenes (o-, m-, p- isomers)	= 4300 mg/kg (Rat)	> 1700 mg/kg (Rabbit)	= 47635 mg/L (Rat) 4 h = 5000 ppm (Rat) 4 h	no data available	no data available
Propyl benzene	= 6040 mg/kg (Rat)	no data available	no data available	no data available	no data available
Cumene	= 1400 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	= 39000 mg/m ³ (Rat) 4 h	no data available	no data available
2-Ethyl hexanol	1516 - 2774 mg/kg (Rat)	no data available	no data available	no data available	no data available
Ethyl benzene	= 3500 mg/kg (Rat)	= 15354 mg/kg (Rabbit)	= 17.2 mg/L (Rat) 4 h	no data available	no data available
1,2,3-Trimethylbenzene	no data available	no data available	no data available	no data available	no data available

Chronic Toxicity

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
2-Ethylhexyl nitrate	no data available	no data available	no data available	no data available	CNS
Naphtha (petroleum), heavy aromatic	no data available	no data available	no data available	no data available	CNS
Dipropylene glycol mono methyl ether	no data available	no data available	no data available	no data available	eyes, CNS, respiratory system, heart, liver, lung
Petroleum naphtha, light aromatic	no data available	no data available	no data available	no data available	CNS
Pseudocumene	no data available	no data available	no data available	no data available	eyes, CNS, respiratory system, skin, blood, ears, heart
Naphthalene	no data available	no data available	no data available	no data available	eyes, blood, liver, kidneys, skin, CNS
1,3,5-Trimethylbenzene	no data available	no data available	no data available	no data available	eyes, CNS, respiratory system, skin, blood, ears, heart
Xylenes (o-, m-, p- isomers)	no data available	no data available	yes	no data available	heart, lung, CNS, PNS, respiratory system, ears, liver, kidney
Propyl benzene	no data available	no data available	no data available	no data available	CNS
Cumene	no data available	no data available	no data available	no data available	eyes, CNS, respiratory system, skin
2-Ethyl hexanol	no data available	no data available	no data available	no data available	CNS, lungs, heart, kidney, liver
Ethyl benzene	no data available	no data available	yes	no data available	eyes, CNS, respiratory system, skin
1,2,3-Trimethylbenzene	no data available	no data available	no data available	no data available	eyes, CNS, respiratory system, skin, blood

Carcinogenicity

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

Component	ACGIH	IARC	NTP	OSHA	Other
2-Ethylhexyl nitrate	not applicable	not applicable	not applicable	X	not applicable
Naphtha (petroleum), heavy aromatic	not applicable	not applicable	not applicable	not applicable	not applicable
Dipropylene glycol mono methyl ether	not applicable	not applicable	not applicable	not applicable	not applicable
Petroleum naphtha, light aromatic	not applicable	not applicable	not applicable	not applicable	not applicable
Pseudocumene	not applicable	not applicable	not applicable	not applicable	not applicable
Naphthalene	not applicable	Group 2B	Reasonably Anticipated	X	not applicable
1,3,5-Trimethylbenzene	not applicable	not applicable	not applicable	not applicable	not applicable
Xylenes (o-, m-, p- isomers)	not applicable	not applicable	not applicable	not applicable	not applicable
Propyl benzene	not applicable	not applicable	not applicable	not applicable	not applicable
Cumene	not applicable	not applicable	not applicable	not applicable	yes - CA Prop 65 List
2-Ethyl hexanol	not applicable	not applicable	not applicable	not applicable	not applicable
Ethyl benzene	A3	Group 2B	not applicable	X	X
1,2,3-Trimethylbenzene	not applicable	not applicable	not applicable	not applicable	not applicable

12. ECOLOGICAL INFORMATION**Product Information**

No information available.

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
2-Ethylhexyl nitrate	no data available	LC50 = 116 mg/L Salmo gairdneri 48 h	EC50 = 100 mg/L 15 min	no data available	4.14
Naphtha (petroleum), heavy aromatic	EC50 = 2.5 mg/L Skeletonema costatum 72 h	LC50 = 1740 mg/L Lepomis macrochirus 96 h LC50 = 19 mg/L Pimephales promelas 96 h LC50 = 2.34 mg/L Oncorhynchus mykiss 96 h LC50 = 41 mg/L Pimephales promelas 96 h LC50 = 45 mg/L Pimephales promelas 96 h	no data available	EC50 = 0.95 mg/L 48 h	2.9 - 6.1
Dipropylene glycol mono methyl ether	no data available	LC50 > 10000 mg/L Pimephales promelas 96 h	no data available	LC50 = 1919 mg/L 48 h	-0.064
Petroleum naphtha, light aromatic	no data available	LC50 = 9.22 mg/L Oncorhynchus mykiss 96 h	no data available	EC50 = 6.14 mg/L 48 h	N/A
Pseudocumene	no data available	LC50 7.19 - 8.28 mg/L Pimephales promelas 96 h	no data available	EC50 = 6.14 mg/L 48 h	3.63
Naphthalene	EC50 = 0.4 mg/L Skeletonema costatum 72 h	LC50 0.91 - 2.82 mg/L Oncorhynchus mykiss 96 h LC50 5.74 - 6.44 mg/L Pimephales promelas 96 h LC50 = 1.6 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	EC50 1.09 - 3.4 mg/L 48 h EC50 = 1.96 mg/L 48 h LC50 = 2.16 mg/L 48 h	3.3
1,3,5-Trimethylbenzene	no data available	LC50 = 3.48 mg/L Pimephales promelas 96 h	no data available	EC50 = 50 mg/L 24 h	N/A
Xylenes (o-, m-, p- isomers)	no data available	LC50 13.1 - 16.5 mg/L Lepomis macrochirus 96 h LC50 13.5 - 17.3 mg/L Oncorhynchus mykiss 96 h LC50 2.661 - 4.093 mg/L Oncorhynchus mykiss 96 h LC50 23.53 - 29.97 mg/L Pimephales promelas 96 h LC50 30.26 - 40.75 mg/L Poecilia reticulata 96 h LC50 7.711 - 9.591 mg/L Lepomis macrochirus 96 h LC50 = 13.4 mg/L Pimephales promelas 96 h LC50 = 19 mg/L Lepomis macrochirus 96 h LC50 = 780 mg/L Cyprinus carpio 96 h LC50 > 780 mg/L Cyprinus carpio 96 h	EC50 = 0.0084 mg/L 24 h	LC50 = 0.6 mg/L 48 h EC50 = 3.82 mg/L 48 h	2.77 - 3.15
Propyl benzene	no data available	no data available	no data available	no data 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 = 2.7 mg/L Oncorhynchus mykiss 96 h LC50 = 4.8 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	EC50 7.9 - 14.1 mg/L 48 h EC50 = 0.6 mg/L 48 h	3.55
2-Ethyl hexanol	EC50 = 11.5 mg/L Desmodesmus subspicatus 72 h	LC50 10.0 - 33.0 mg/L Lepomis macrochirus 96 h LC50 27 - 29.5 mg/L Pimephales promelas 96 h LC50 32 - 37 mg/L Oncorhynchus mykiss 96 h LC50 = 29.7 mg/L Pimephales promelas 96 h LC50 > 7.5 mg/L Oncorhynchus mykiss 96 h	no data available	EC50 = 39 mg/L 48 h	3.1
Ethyl benzene	EC50 1.7 - 7.6 mg/L Pseudokirchneriella subcapitata 96 h EC50 2.6 - 11.3 mg/L Pseudokirchneriella subcapitata 72 h	LC50 11.0 - 18.0 mg/L Oncorhynchus mykiss 96 h LC50 7.55 - 11 mg/L Pimephales promelas 96 h LC50 9.1 - 15.6 mg/L Pimephales promelas 96 h LC50 = 32 mg/L Lepomis macrochirus 96 h	EC50 = 9.68 mg/L 30 min EC50 = 96 mg/L 24 h	EC50 1.8 - 2.4 mg/L 48 h	3.118

	EC50 = 4.6 mg/L Pseudokirchneriella subcapitata 72 h EC50 > 438 mg/L Pseudokirchneriella subcapitata 96 h	LC50 = 4.2 mg/L Oncorhynchus mykiss 96 h LC50 = 9.6 mg/L Poecilia reticulata 96 h			
1,2,3-Trimethylbenzene	no data available	no data available	no data available	no data available	N/A

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 Description This product contains a chemical which is listed as a marine pollutant according to DOT. 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 Description This product contains a chemical which is listed as a marine pollutant according to TDG. UN1268, Petroleum distillates, n.o.s.,3,III, Marine Pollutant(>119 gallons- <119 gallons not regulated)

ICAO Not regulated

IATA Not regulated

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 Shipping Description This product contains a chemical which is listed as a marine pollutant according to IMDG/IMO 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 40n of the Code of Federal Regulations, Part 372

Component	CAS-No	Weight %	SARA 313 - Threshold Values
Dipropylene glycol mono methyl ether	34590-94-8	10-30	1.0
Pseudocumene	95-63-6	5-10	1.0
Naphthalene	91-20-3	1-5	0.1
Xylenes (o-, m-, p- isomers)	1330-20-7	1-5	1.0
Cumene	98-82-8	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
2-Ethylhexyl nitrate	Not applicable	Not applicable
Naphtha (petroleum), heavy aromatic	Not applicable	Not applicable
Dipropylene glycol mono methyl ether	Not applicable	Not applicable
Petroleum naphtha, light aromatic	Not applicable	Not applicable
Pseudocumene	Not applicable	Not applicable
Naphthalene	100 lb	Not applicable
1,3,5-Trimethylbenzene	Not applicable	Not applicable
Xylenes (o-, m-, p- isomers)	100 lb	Not applicable
Propyl benzene	Not applicable	Not applicable
Cumene	5000 lb	Not applicable
2-Ethyl hexanol	Not applicable	Not applicable
Ethyl benzene	1000 lb	Not applicable

1,2,3-Trimethylbenzene

Not applicable

Not applicable

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

B3 Combustible liquid, D2A Very toxic materials, D2B Toxic materials.



16. OTHER INFORMATION

Prepared By	Dan Hollas
Supersedes Date	Not applicable
Issuing Date	10/27/2011
Reason for Revision	No information available.
Glossary	No information available.
List of References.	No information available.

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