

Safety Data Sheet: ARCTIC DIESEL MATE

Supersedes Date: 03/29/2017

Issuing Date: 08/05/2020

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

2. HAZARD IDENTIFICATION

Color Dark amber

Physical state Liquid

Odor Petroleum distillates

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 vapors or mist

P271 - Use in a well-ventilated area.

P270 - Do not eat, drink or smoke when using this product

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

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

P233 - Keep container tightly closed.

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	15-40
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	15-40

Dipropylene Glycol Methyl Ether	34590-94-8	10-30
Petroleum naphtha, light aromatic	64742-95-6	7-13
1,2,4- Trimethylbenzene	95-63-6	3-7
Naphthalene	91-20-3	3-7
Cumene	98-82-8	0.1-1.0
1,3,5-Trimethylbenzene	108-67-8	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

General advice	Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists.
Eye Contact	No hazards which require special first aid measures.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists. Remove and wash contaminated clothing before re-use.
Inhalation	Move to fresh air. In case of shortness of breath, give oxygen. If not breathing, give 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 144 °F / 62 °C	Method Seta closed cup	
Flammability Limits in Air %: Mixture.	Upper: 6.7	Lower: 0.8
Suitable Extinguishing Media		
Water spray. Foam. Dry chemical. Carbon dioxide (CO ₂). 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, NOHSC (approved or equivalent) and full protective gear.		
NFPA	Health 2	Flammability 2
HMIS -	Health 2	Flammability 2
		Instability 0
		Physical Hazard 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. Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists.			
Storage	Keep away from open flames, hot surfaces and sources of ignition. Store in original container. Keep container tightly closed in a dry and well-ventilated place.			
Storage Temperature	Minimum	-60 °F / -51 °C	Maximum	120 °F / 49 °C
Storage Conditions	Indoor	X	Outdoor	X
			Heated	
			Refrigerated	

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
Dipropylene Glycol Methyl Ether	TWA: 100 ppm Skin	TWA: 100 ppm TWA: 600 mg/m ³	600 ppm STEL 150 ppm

	STEL: 150 ppm	Skin	STEL 900 mg/m ³ TWA: 100 ppm TWA: 600 mg/m ³
1,2,4- Trimethylbenzene	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

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

Wear protective gloves/clothing. 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	Dark amber	Odor	Petroleum distillates
Odor Threshold	Not applicable	Appearance	Transparent - Cloudy
pH	Not applicable	Specific Gravity	0.897
Evaporation Rate	No information available	Percent Volatile (Volume)	99.8
VOC Content (%)	21.92	VOC Content (g/L)	196.58
Vapor pressure	2.06 mmHg @ 70°F	Vapor Density	No information available
Solubility	Negligible	n-Octanol/Water Partition	No data available
Melting Point/Range	No data available	Decomposition Temperature	No data available
Boiling Point/Range	No data available	Flammability (solid, gas)	No data available
Flash Point	144 °F / 62 °C	Method	Seta closed cup
Autoignition Temperature	No information available.		
Flammability Limits in Air %:	Mixture	Upper: 6.7 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, Strong bases, Strong acids.
Decomposition Temperature	No data available
Hazardous Decomposition Products	Carbon oxides, Nitrogen oxides (NOx), Aldehydes, Ketones, Organic acids.
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

Low hazard for usual industrial or commercial handling.

Skin

May cause allergic skin reaction.

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.

Ingestion

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Causes headache, drowsiness or other effects to the central nervous system. 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. Prolonged skin contact may defat the skin and produce dermatitis. May cause sensitization by skin contact. Contains a known or suspected carcinogen.

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

Kidney disorders, Liver disorders, Blood disorders, Neurological disorders, Skin disorders, Respiratory disorders.

Target Organ Effects:**Aggravated Medical Conditions****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 ³ (Rat) 4 h	No data available	No data available
Dipropylene Glycol Methyl Ether 34590-94-8	= 5.35 g/kg (Rat) = 54 5400 µL/kg (Rat)	= 9500 mg/kg (Rabbit) = 10 mL/kg (Rabbit)	No data available	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 ³ (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 ³ (Rat) 1 h	No data available	No data available
Cumene 98-82-8	= 1400 mg/kg (Rat)	= 12300 µL/kg (Rabbit)	= 39000 mg/m ³ (Rat) 4 h h > 3577 ppm (Rat) 6 h	No data available	No data available
1,3,5-Trimethylbenzene 108-67-8	= 5000 mg/kg (Rat) = 8970 mg/kg (Rat)	no data available	= 24 g/m ³ (Rat) 4 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
Dipropylene Glycol Methyl Ether 34590-94-8	No data available	No data available	No data available	No data available	Central nervous system; Eyes; Respiratory system
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
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
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
---------------	-------------------	------------------	----------	-----------	-----------------------

					nt
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 macrochirus</i> 96 h LC50 = 45 mg/L <i>Pimephales promelas</i> 96 h	No information available	0.95: 48 h <i>Daphnia magna</i> mg/L EC50	6.1
Dipropylene Glycol Methyl Ether	No information available.	LC50 > 10000 mg/L <i>Pimephales promelas</i> 96 h	No information available	1919: 48 h <i>Daphnia magna</i> mg/L LC50	-0.064
Petroleum naphtha, light aromatic	No information available.	LC50 = 9.22 mg/L <i>Oncorhynchus mykiss</i> 96 h	No information available	6.14: 48 h <i>Daphnia magna</i> mg/L EC50	N/A
1,2,4- Trimethylbenzene	No information available.	LC50 7.19 - 8.28 mg/L <i>Pimephales promelas</i> 96 h LC50 = 7.72 mg/L <i>Pimephales promelas</i> 96 h	No information available	6.14: 48 h <i>Daphnia magna</i> mg/L EC50	3.63
Naphthalene	EC50 = 0.4 mg/L <i>Skeletonema costatum</i> 72 h	LC50 = 1.6 mg/L <i>Oncorhynchus mykiss</i> 96 h LC50 5.74 - 6.44 mg/L <i>Pimephales promelas</i> 96 h LC50 = 31.0265 mg/L <i>Lepomis macrochirus</i> 96 h LC50 0.91 - 2.82 mg/L <i>Oncorhynchus mykiss</i> 96 h LC50 = 1.99 mg/L <i>Pimephales promelas</i> 96 h	EC50 = 0.93 mg/L 30 min EC50 > 20 mg/L 18 h	2.16: 48 h <i>Daphnia magna</i> mg/L LC50 1.96: 48 h <i>Daphnia magna</i> mg/L EC50 Flow through 1.09 - 3.4: 48 h <i>Daphnia magna</i> mg/L EC50 Static	3.6
Cumene	EC50 = 2.6 mg/L <i>Pseudokirchneriella subcapitata</i> 72 h	LC50 6.04 - 6.61 mg/L <i>Pimephales promelas</i> 96 h LC50 = 5.1 mg/L <i>Poecilia reticulata</i> 96 h LC50 = 4.8 mg/L <i>Oncorhynchus mykiss</i> 96 h LC50 = 2.7 mg/L <i>Oncorhynchus mykiss</i> 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 <i>Daphnia magna</i> mg/L EC50 7.9 - 14.1: 48 h <i>Daphnia magna</i> mg/L EC50 Static	3.7
1,3,5-Trimethylbenzene	No information available.	LC50 = 7.72 mg/L <i>Pimephales promelas</i> 96 h LC50 = 3.48 mg/L <i>Pimephales promelas</i> 96 h	No information available	50: 24 h <i>Daphnia magna</i> mg/L EC50	N/A
Ethyl benzene	EC50 = 11 mg/L <i>Pseudokirchneriella subcapitata</i> 72 h EC50 2.6 - 11.3 mg/L <i>Pseudokirchneriella subcapitata</i> 72 h EC50 = 4.6 mg/L <i>Pseudokirchneriella subcapitata</i> 72 h EC50 1.7 - 7.6 mg/L <i>Pseudokirchneriella subcapitata</i> 96 h EC50 > 438 mg/L <i>Pseudokirchneriella subcapitata</i> 96 h	LC50 11.0 - 18.0 mg/L <i>Oncorhynchus mykiss</i> 96 h LC50 = 4.2 mg/L <i>Oncorhynchus mykiss</i> 96 h LC50 = 32 mg/L <i>Lepomis macrochirus</i> 96 h LC50 7.55 - 11 mg/L <i>Pimephales promelas</i> 96 h LC50 9.1 - 15.6 mg/L <i>Pimephales promelas</i> 96 h LC50 = 9.6 mg/L <i>Poecilia reticulata</i> 96 h	EC50 = 9.68 mg/L 30 min EC50 = 96 mg/L 24 h	1.8 - 2.4: 48 h <i>Daphnia magna</i> mg/L EC50	3.2

Persistence and Degradability
Bioaccumulation
Mobility

No information available.
No information available.
No information available.

13. DISPOSAL CONSIDERATIONS

Product Disposal
Container Disposal

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

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name
Hazard Class

PETROLEUM DISTILLATES, N.O.S.
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.,(NAPHTHA, 2-ETHYLHEXYL NITRATE), 3, PG III
 **Exceptions may exist per 49CFR 173.120

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.,(NAPHTHA, 2-ETHYLHEXYL NITRATE), 3, PG III **
 Exceptions may exist per TDG

ICAO

UN-No UN1268
Proper Shipping Name PETROLEUM DISTILLATES, N.O.S.
Hazard Class 3
Packing Group III
Shipping Description UN1268, PETROLEUM DISTILLATES, N.O.S.,(NAPHTHA, 2-ETHYLHEXYL NITRATE), 3, PG III

IATA

UN-No UN1268
Proper Shipping Name PETROLEUM DISTILLATES, N.O.S.
Hazard Class 8
Packing Group III
Shipping Description UN1268, PETROLEUM DISTILLATES, N.O.S.,(NAPHTHA, 2-ETHYLHEXYL NITRATE), 3, PG III

IMDG/IMO

UN proper shipping name UN1268, PETROLEUM DISTILLATES, N.O.S.
Hazard Class 3
UN Number UN1268
Packing Group III
Marine Pollutant Description This product contains a chemical which is listed as a marine pollutant according to IMDG/IMO
 UN1268, PETROLEUM DISTILLATES, N.O.S.,(NAPHTHA, 2-ETHYLHEXYL NITRATE), 3, PG 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
Dipropylene Glycol Methyl Ether	34590-94-8	10-30	1.0
1,2,4- Trimethylbenzene	95-63-6	3-7	1.0
Naphthalene	91-20-3	3-7	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 Kim Franklin
Supersedes Date: 03/29/2017
Issuing Date: 08/05/2020
Reason for Revision No information available.

Glossary

No information available.

List of References.

No information available.

CERTIFIED LABS, DIV. OF NCH CORP. assumes no responsibility for personal injury or property damage caused by the use, storage, or disposal of the product in a manner not recommended on the product label. Users assume all risks associated with such unrecommended use, storage or disposal of the product. The information provided on this document is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.