PETREXX TRADING LLC

MSDS (MATERIAL SAFETY DATA SHEET)

According to Regulation (EC) No. 1907/2006

114 201 002 – DIESELCURE

Version 1.0 Revision Date 01 / 01 / 2019 Print Date 01 /01 / 2019 U.S.A.

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Commercial Product Name: DIESELCURE
Product code: 114 201 002
MSDS-Identicode: 10043042

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture: Additive

1.3. Details of the supplier of the safety data sheet

Company:	PETREXX TRADING LLC 2255 Glades Road Suite 324A Boca Raton, FL 33431 U.S.A.
Telephone:	(954) 415 6959
Responsible/issuing person:	E-mail address: anthony@petrexxcorp.com

1.4. Emergency telephone number

Advisory office in case of poisoning:
(954) 415 6959

Telephone number of the company in case of emergencies: 08:00 am - 4:30 pm
(407) 601-8548

2. Hazards Identification

2.1. Classification of the substance or mixture

Classification (67 / 548 / EED, 1999 / 45 / EC)

Harmful R20/21/22: Harmful by inhalation, in contact with skin and if swallowed

2.2. Label elements

Labelling according to EC Directives: 1999 / 45 / EC

Hazard symbols:

Harmful

R-phrase(s):	R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
	R36/38	Irritating to eyes and skin.
	R63	Possible risk of harm to the unborn child.
S-phrase(s):	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S36/37	Wear suitable protective clothing and gloves.
	S60	Material and its container must be disposed of as hazardous waste.

Hazardous components which must be listed on the label:
- 111-76-2 2-butoxyethanol
- 111-77-3 2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether

2.3. Other Hazards
No data available

3. Composition Information on Ingredients

3.1. Mixtures

Hazardous Components

Chemical Name	CAS-No. EC-No. Registration Number	Classification (67/548/EEC)	Classification (1278/2008/EC)	Concentration [%]
2-butoxyethanol	111-76-2 203-905-0	Xn; R20/21/22 Xi; R36/38	Acute Tox. 4; H332 Acute Tox. 4; H312 Acute Tox 4.; H302 Eye Irrit. 2; H319 Skin Irrit. 2; H315	>= 70 - < 75
2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether	111-77-3 203-906-6	Repr.Cat.3; R63	Repr. 2; H361	>= 15 - < 20
WEL substance:				
(2- Methoxymethylethoxy) propanol	34590-94-8 252-104-2			>= 10 - < 12.5

For the full text of the R-phrases mentioned in this Section, See Section 16.
For the full text of the H-statements mentioned in this Section, see Section 16.

4. First Aid Measures

4.1. Description of first aid measures

General advice:	In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). First aider needs to protect himself. Move out of dangerous area. Never give anything by mouth to an unconscious person. Take off contaminated clothing and shoes immediately.
If inhaled:	If breathed in, move person into fresh air. Call a physician immediately. Keep patient warm and at rest. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
In case of skin contact:	Call a physician immediately. In case of contact, immediately flush skin with soap and plenty of water. DO NOT use solvents or thinners.
In case of eye contact:	Protect unharmed eye. If easy to do, remove contact lens, if worn. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
If swallowed:	If swallowed, seek medical advice immediately and show this container or label. If swallowed, DO NOT induce vomiting. If a person vomits when lying on his back, place him in the recovery position.

5. Firefighting measures

5.1. Extinguishing Media

Suitable Extinguishing Media:	Water mist; Water spray; Carbon dioxide (CO2); Foam; Dry Chemical
Unsuitable Extinguishing Media:	High volume Water jet

5.2. Special Hazards arising from the substance or mixture

Special Hazards during firefighting:	Do not use a solid water stream as it may scatter and spread fire. Hazardous decomposition products may be formed under fire conditions (See Section 10). Exposure to decomposition products may be a hazard to health.

5.3. Advice for Firefighters

Special protective equipment for Firefighters:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.
Further information:	Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. In the event of fire and/or explosion do not breathe fumes. Use water spray to cool unopened containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6. ccidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Refer to protective measures listed in Sections 7 and 8. Use personal protective equipment. Avoid contact with skin and eyes. Ensure adequate ventilation, especially in confined areas. Avoid inhalation of vapor or mist.

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system. Present further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3. Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g., sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal. Clean contaminated surface thoroughly.

6.4. Reference and other sections

See chapter: 7, 8, 11, 12 and 13

7. Handling and Storage

7.1. Precautions for safe handling

Advice on safe handling:	For personal protection see section 8. Do not breath vapors or spray mist. Avoid contact with eyes.
Advice for protection against fire and explosion:	Normal measure for preventive fire protection.
Dust explosion class:	Not applicable

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers:	Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from direct sunlight.
Advice on common storage:	Incompatible with strong bases and oxidizing agents.
Storage temperature:	> -70 °C; > -94 °F
Other data:	No decomposition if stored as directed.

7.3. Specific end uses

No data available

8. Exposure controls/personal protection

8.1. Control Parameters

Components	CAS-No	Control Parameters	Basis	Update
2-butoxyethanol	111-76-2	TWA: 98 mg/m3, 20 ppm skin, STEL: 246 mg/m3, 50 ppm skin	2000/39/EC	2000-06-16
2-(2-methoxyethoxy) ethanol; diethylene glycol monomethyl ether	111-77-3	TWA: 50,1 mg/m3, 10 ppm skin	2006/15/EC	2006-02-09
(2- Methoxymethylethoxy) propanol	34590-94-8	TWA: 308 mg/m3, 50 ppm skin		2000-06-16

Other information on limit values see chapter 16

8.2. Exposure controls

Engineering measures

Provide sufficient air exchange or exhaust in work rooms.

Personal protective equipment

Respiratory protection: When workers are facing exposure above the concentration limit they must use appropriate certified respirators

Respirator with filter type A

Respirator with combination filter with vapor/particulate (EN 141)

Hand protection

Material: Fluorinated rubber
Glove thickness: 0,4 mm
Break through time: >=480 min

Material: butyl-rubber
Glove thickness: 0,5 mm
Break through time: >=480 min

Remarks: Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer.

Eye protection: Tightly fighting safety goggles

Skin and body protection: Wear suitable protective clothing.
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures:	Handle in accordance with good industrial hygiene and safety practice. General industrial hygiene practice. Avoid breathing vapours, mist or gas. Avoid contact with skin, eyes and clothing. When using do not eat, drink or smoke. Wash hands before breaks and at the end of workday. Follow the skin protection plan. Take off all contaminated clothing immediately. Wash contaminated clothing before re-use.

Environmental exposure controls

General advice:	Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. If product contaminates rivers and lakes or drains inform respective authorities.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:	liquid
Color:	slight yellow color
Odor:	unpleasant
Odor Threshold:	no data available
Flash point:	72.5 °C Method closed cup
Ignition temperature:	259 °C
Lower explosion limit:	1,13 %(V)
Upper explosion limit:	11,39 %(V)
Explosive properties:	no data available
Flammability (solid, gas):	no data available
Oxidizing properties:	no data available
Autoignition temperature:	no data available
Burning number:	no data available
Molecular Weight:	no data available
pH:	no data available
Melting point/range:	-76.92 °C
Boiling point/boiling range:	171°C
Vapor pressure:	0.8 hPa at 20 °C
Density:	0.9112 g/cm3 at 20 °C
Bulk density:	no data available
Water solubility:	completely soluble

Partition coefficient n-octanol water:	no data available
Solubility in other solvents:	no data available
Viscosity, dynamic:	no data available
Viscosity, kinematic:	2.266 mm2/s at 40 °C
Flow time:	no data available
Impact Sensitivity:	no data available
Relative vapor density:	4, 1 (Air = 1.0)
Surface tension:	no data available
Evaporation rate:	no data available
Minimum ignition energy:	no data available
Acid number:	no data available
Refraction index:	no data available
Miscibility in water:	no data available
Solvent separation test:	no data available

10. Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical Stability

No data available

10.3. Possibility of hazardous reactions

Stability: No decomposition if stored and applied as directed.

10.4. Conditions to avoid

No data available

10.5. Incompatible Materials

Materials to avoid: Strong oxidizing agents, strong bases

10.6. Hazardous decomposition products

Hazardous decomposition products: Carbon oxides

Thermal decomposition: No data available

11. Chemical Stability

11.1. Information on toxicological effects

Acute Toxicity

Acute Oral Toxicity

2-butoxyethanol:	LD50 rat: 470 mg/kg
2-(2-methoxyethoxy) ethanol; diethylene glycol monomethyl ether	LD50 rat: ca. 6.500 mg/kg
(2- Methoxymethylethoxy) Propanol	LC50 rat: 5.135 mg/kg

Acute Inhalation toxicity:

2-butoxyethanol:	LC50 rat: 450 ppm Exposure time: 4 h
2-(2-methoxyethoxy) ethanol; diethylene glycol monomethyl ether	LC50 rat: > 200 mg/l Exposure time: 1 h
(2-Methoxymethylethoxy) Propanol	LC50 rat: 55 - 60 mg/l Exposure time: 4 h

Acute dermal toxicity:

2-butyxyethanol:	LD50 rabbit: 220 mg/kg
2-(2-methoxyethoxy) ethanol; diethylene glycol monomethyl ether	LD50 rat: ca. 6.450 mg/kg
(2-Methoxymethylethoxy) Propanol	LD50 rat: 9.500 mg/kg

Acute toxicity (other routes of administration):

No data available

Skin corrosion/irritation

2-butoxyethanol:	Mild skin irritation
2-(2-methoxyethoxy) ethanol; diethylene glycol monomethyl ether	Note: No skin irritation

(2-Methoxymethylethoxy) Propanol	Mild skin irritation

Serious eye damage/eye irritation

2-butyxyethanol:	Eye irritation
2-(2-methoxyethoxy) ethanol; diethylene glycol monomethyl ether	Note: No. eye irritation
(2-Methoxymethylethoxy) Propanol	Mild eye irritation

Respiratory or skin sensitization

Sensitization:

(2-Methoxymethylethoxy) Propanol	Note: No known sensitizing effect.

Germ cell mutagenicity

Genotoxicity in vitro:

no data available

Carcinogenicity

no data available

Teratogenicity

no data available

Aspiration hazard

Aspiration toxicity

no data available

Neurological effects

no data available

Toxicology Assessment

Toxicology, Metabolism, Distribution

no data available

Further information: 2-Butoxy-ethanol and its acetate (2-Butyxy-ethyl-acetate) are skin resorptive and cause harmful effects to the blood.

12. Ecological Information

12.1. Toxicity

Toxicity to fish

(2-Methoxymethylethoxy) Propanol:	LC50 (Pimephales promelas (fathead minnow)): > 10.000 mg/l

Toxicity to daphnia and other aquatic invertebrates

2-butoxyethanol:	EC50 (Daphnia magna (Water flea)) 1,7 – 1,9 g/l Exposure time: 24 h
(2-Methoxymethylethoxy) Popanol:	EC 50 (Daphnia magna (Water flea)): 1.919 mg/l

Toxicity to bacteria

2-butoxyethanol:	EC0 (Pseudomonas putida): 700 mg/l Exposure time: 16 h
(2-Methoxymethylethoxy) Propanol:	EC10 (pseudomonas putida): 4.168 mg/l Exposure time: 18 h

12.2. Persistence and degradability

No data available

12.3. Bio-accumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No data available

12.6. Other adverse effects

Additional ecological information: Product should not be allowed to enter drains, water courses or the soil.

13. Disposal considerations

13.1. Waste treatment methods

Advise on disposal and Packaging:	Disposal: In accordance with local and national regulations. Do not dispose of waste into sewer. This material and its container must be disposed of as hazardous waste. Do not dispose together with household waste. Waste codes should be assigned by the user based on the application for which the product was used.

The following Waste Codes are only suggestions:

Waste Code (EWC):	Waste Key (unused product): 200129, detergents containing dangerous substances Waste Key (used product): 200129, detergents containing dangerous substances
Disposal of uncleaned packaging:	Waste Key (uncleaned packaging): 150110, packaging containing residues of or contaminated by dangerous substances Note: Empty containers should be taken to an approved waste handling site for recycling or disposal. Dispose of as unused product.

14. Transport Information

ADR / RID / IATA	Not dangerous goods
Special precautions for user	see chapter: 6, 7 and 8

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Directive (96/82/EC):	Update: 2003 Directive 96/82/ED does not apply
Other regulations:	Take note of Dir 92/85/EEC on the safety and health at work of pregnant workers.
Further information:	Reserved for industrial and professional use.

15.2. Chemical Safety Assessment

No data available

16. Other Information

Full text of R-phrases referred to under sections 2 and 3

R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R36/38	Irritating to eyes and skin.
R63	Possible risk of harm to the unborn child.

Full text of H-Statements referred to under sections 2 and 3

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H361	Suspected of damaging fertility or the unborn child.

Other information

skin	identifies the possibility of significant uptake through the skin

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

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