

Product: FLUA PETROBRAS

SDS ID: 1013826

Revision date: 24/08/2023

SECTION 1: Identification of Product and Company**1.1. Product identifier**

Product name : FLUA PETROBRAS
Product code : 1013826
Recommended use : Diesel Exhaust Fluid (DEF)

1.2. Company identification

Name of company : Vibra Energia S.A.
Address : Rua Correia Vasques, 250
Rio de Janeiro
Brasil
20.211-140

SAC : 0800 728 9001 (capitais ou regiões metropolitanas) ou 0800 24 44 33
(emergências)
Emergency telephone number : 0800 024 44 33

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture**

Classification according to GHS BR (ABNT NBR 14725)

Skin corrosion/irritation, Category 2

Serious eye damage/eye irritation, Category 2A

2.2. Label elements**GHS BR labelling**

Hazard pictograms (GHS BR) :



Signal word (GHS BR) : Warning

Hazard statements (GHS BR) : H315 - Causes skin irritation.
H319 - Causes serious eye irritation.

Precautionary statements (GHS BR)

Prevention : P264 - Wash the exposed areas thoroughly after handling.
P280 - Wear protective gloves, protective clothing and eye protection.Resposta a Emergência : P302+P352 - IF ON SKIN: Wash with plenty of water and soap.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several

Product: FLUA PETROBRAS

SDS ID: 1013826

Revision date: 24/08/2023

minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P321 - Specific treatment: In the event of spillage contact the customer attendance service.

P332+P313 - If skin irritation occurs: Get medical advice/attention.

P337+P313 - If eye irritation persists: Get medical advice/attention.

P362+P364 - Take off contaminated clothing and wash it before reuse.

2.3. Other hazards not contributing to the classification

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to GHS BR (ABNT NBR 14725)
Urea	CAS-No.: 57-13-6	32,5	Skin Irrit. 2, H315 Eye Irrit. 2A, H319

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: If you feel unwell, seek medical advice.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Be careful, the product may remain trapped under clothing, footwear or a wrist-watch.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
First-aid measures after ingestion	: Do NOT induce vomiting. Rinse mouth out with water.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects	: May cause severe burns. Causes serious eye irritation.
------------------	--

Product: FLUA PETROBRAS

SDS ID: 1013826

Revision date: 24/08/2023

Symptoms/effects after inhalation	: May cause irritation to the respiratory tract, sneezing, coughing, burning sensation of throat with constricting sensation of the larynx and difficulty in breathing.
Symptoms/effects after skin contact	: Causes skin irritation. irritation (itching, redness, blistering).
Symptoms/effects after eye contact	: Causes serious eye irritation. stinging, redness, itching, tears.
Symptoms/effects after ingestion	: Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

4.3. Indication of any immediate medical attention and special treatment needed

Notes to physician : Treat symptomatically

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use dry chemical, CO₂, water spray or regular foam.
Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : In case of fire and/or explosion do not breathe fumes.
Explosion hazard : No direct explosion hazard.

5.3. Advice for firefighters

Firefighting instructions : Fight fire with normal precautions from a reasonable distance. Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting : Use self-contained breathing apparatus and chemically protective clothing.
Other information : In case of fire, corrosive and harmful gases come free.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid contact with skin and eyes. Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Product: FLUA PETROBRAS

SDS ID: 1013826

Revision date: 24/08/2023

Emergency procedures : Evacuate area. Only qualified personnel equipped with suitable protective equipment may intervene. Notify fire brigade and environmental authorities.

6.1.2. For emergency responders

Protective equipment : Self-contained breathing apparatus. Total impervious protective suits, gloves, and boots must be worn to prevent any contact with the product. Corrosionproof suit. Equip cleanup crew with proper protection.

Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.

Methods for cleaning up : Clean contaminated surfaces with an excess of water.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.

Precautions for safe handling : Keep only in original container. Do not handle until all safety precautions have been read and understood.

Hygiene measures : Always wash hands after handling the product. Remove contaminated clothes. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep in a cool, well-ventilated place away from heat.

Storage conditions : Keep cool. Protect from sunlight.

Packaging materials : Store always product in container of same material as original container.

Product: FLUA PETROBRAS

SDS ID: 1013826

Revision date: 24/08/2023

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit for mists/aerosols that may form while using this product:

8.2. Exposure controls

Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

8.3. Personal protective equipment

Personal protective equipment:

Wear recommended personal protective equipment.

Hand protection:

Protective gloves made of PVC

Eye protection:

Wear closed safety glasses

Skin and body protection:

Wear impervious rubber safety shoes

Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

Personal protective equipment symbol(s):



Product: FLUA PETROBRAS

SDS ID: 1013826

Revision date: 24/08/2023

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state	: Liquid
Appearance	: Clear Liquid.
Colour	: Colourless
Odour	: Light
Odour threshold	: Not available
pH	: 9,8 - 10
Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flash point	: Not applicable.
Relative evaporation rate (butylacetate=1)	: Not available
Flammability	: Not available
Explosive limits	: Not available
Vapour pressure	: 6,8 kPa 40 °C
Relative vapour density at 20 °C	: Not available
Relative density	: Not available
Density	: 1,09 g/cm ³ 20 °C
Solubility	: Soluble in water.
Partition coefficient n-octanol/water (Log Kow)	: -2,11
Auto-ignition temperature	: Not available
Decomposition temperature	: 100 °C
Kinematic Viscosity (40 °C)	: Not applicable.
Viscosity, dynamic	: Not available

9.2. Other information

No additional information available

Product: FLUA PETROBRAS

SDS ID: 1013826

Revision date: 24/08/2023

SECTION 10: Stability and reactivity

Chemical stability	: Stable under normal conditions of use.
Conditions to avoid	: Extremely high or low temperatures. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Hazardous decomposition products	: On exposure to high temperature, may decompose, releasing corrosive gases.
Incompatible materials	: Consult supplier(s) of these materials for specific recommendations.
Possibility of hazardous reactions	: None under normal use.
Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
Handling temperature	: No additional information available

SECTION 11: Toxicological information**11.1. Information on toxicological effects**

Acute toxicity (oral)	: Not available
Acute toxicity (dermal)	: Not available
Acute toxicity (inhalation)	: Not available
Skin corrosion/irritation	: Causes skin irritation. pH: 9,8 - 10
Serious eye damage/irritation	: Causes serious eye irritation. pH: 9,8 - 10
Respiratory or skin sensitisation	: Not available
Germ cell mutagenicity	: Not available
Carcinogenicity	: Not available
Reproductive toxicity	: Not available
STOT-single exposure	: Not available
STOT-repeated exposure	: Not available
Aspiration hazard	: Not available

FLUA PETROBRAS

Kinematic Viscosity (40 °C)	Not applicable.
-----------------------------	-----------------

Product: FLUA PETROBRAS

SDS ID: 1013826

Revision date: 24/08/2023

11.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects	: May cause severe burns. Causes serious eye irritation.
Symptoms/effects after inhalation	: May cause irritation to the respiratory tract, sneezing, coughing, burning sensation of throat with constricting sensation of the larynx and difficulty in breathing.
Symptoms/effects after skin contact	: Causes skin irritation. irritation (itching, redness, blistering).
Symptoms/effects after eye contact	: Causes serious eye irritation. stinging. redness, itching, tears.
Symptoms/effects after ingestion	: Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not available

Hazardous to the aquatic environment, long-term (chronic) : Not available

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

FLUA PETROBRAS

Partition coefficient n-octanol/water (Log Kow)	-2,11
---	-------

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Hazardous to the ozone layer : Not available

SECTION 13: Disposal considerations

Product: FLUA PETROBRAS

SDS ID: 1013826

Revision date: 24/08/2023

Regional legislation (waste)	: Law No. 12.305 on the National Policy on Solid Waste Management, 02 August 2010.
Waste treatment methods	: Must follow special treatment according to local regulation.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Disposal must be done according to official regulations.
Additional information	: Do not re-use empty containers.

SECTION 14: Transport information

14.1 National and international Regulations

Not classified as dangerous for transport in the different modes, but may be harmful in the event of an accident. For further information, please consult Section 2 in this MSDS.

14.2 Other information

No additional information available

SECTION 15: Regulatory information

15.1. National regulations

Brazil Local Regulations	: Norma ABNT NBR 14725. Decreto Federal nº 2.657, de 3 de julho de 1998 - Promulga a Convenção nº 170 da OIT, relativa à Segurança na Utilização de Produtos Químicos no Trabalho, assinada em Genebra, em 25 de junho de 1990. Portaria nº 229, de 24 de maio de 2011 - Altera a Norma Regulamentadora nº 27 Federal Decree no. 96.044, of 18 May 1988 - Approves Regulations for Road Transportation of Hazardous Materials Resolution no. 5998, of 03 November 2022, updates the regulation for road transport of dangerous goods, approves its Complementary Instructions, and other measures.
--------------------------	--

SECTION 16: Other information

No additional information available

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.