

CNERGYICO PK LIMITED		
OIL & PRODUCT MOVEMENT		
MATERIAL SAFETY DATA SHEET		
Document No: CPL-OPM (CR&PS)-R-LEVEL-II-18	Page No: 1 of 18	
Issue Date: 15 – Sept – 2025	Revision No: 01	

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. PRODUCT IDENTIFIER

Trade name : Very Low Sulfur Fuel / Low Sulfur Fuel Oil / High Sulfur Fuel Oil

Regulatory name : Liquid Fuel Oil, Residual

EC Index : 649-024-00-9

EC No : 270-675-6

CAS No. : 68476-33-5

HS CODE : 27101950

Formula : Unspecified: Mixture of Heavy Hydrocarbon C yield from Crude Oil

1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Main Use Category : Industrial Use, Professional Use

1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Company : Cnergyico Pakistan Limited
Mouzakund Plant,
Hub Lasbela,
Balochistan.
Telephone +9221-32752299
Ext: 4047 & 4036

SECTION 2: HAZARDS IDENTIFICATION

2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

2.1.1. CLASSIFICATION ACCORDING TO REGULATION (EU) 1272/2008

CPL-Classification : The product is classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

Acute Tox. 4 (Inhalation:dust,mist) : H332

Carc 1B : H350

Repr 2 : H361d

STOT RE 2 : H373

CNERGYICO PK LIMITED		
OIL & PRODUCT MOVEMENT		
MATERIAL SAFETY DATA SHEET		
Document No: CPL-OPM (CR&PS)-R-LEVEL-II-18	Page No: 3 of 18	
Issue Date: 15 – Sept – 2025	Revision No: 01	

2.2.2. LABELLING ACCORDING TO DIRECTIVES (67/548 - 1999/45)

Not Relevant

2.3. OTHER HAZARDS

Other Hazards : Product may release Hydrogen Sulphide. Vapour may create explosive atmosphere. The vapour is heavier than air; beware of pits and confined spaces.
This substance does not meet the PBT/vPvB criteria of REACH, annex XIII

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. SUBSTANCES

SUBSTANCES NAME	PRODUCT IDENTIFIER	%	CLASSIFICATION ACCORDING TO DIRECTIVE 67/548/EEC
Very Low Sulfur Fuel Oil / Low Sulfur Fuel Oil / High Sulfur Fuel Oil	CAS No.) 68476-33-5 (EC No) 270-675-6 (EC Index) 649-009-00-7	100	Carc.Cat.1; R45 Xn; R20 Xn; R48/21 Repr. Cat. 3; R63 N; R50/53 R66

Full text of R- and H-phrases: see section 16

3.2. MIXTURES

Not Applicable

SECTION 4: FIRST AID MEASURES

4.1. DESCRIPTION OF FIRST AID MEASURES

Inhalation : Remove person to fresh air and keep comfortable for breathing.
When in doubt or if symptoms are observed, get medical advice.
If breathing is irregular or stopped, administer artificial respiration.
Get immediate medical advice/attention.

Skin contact : Take off contaminated clothing.
Gently wash with plenty of soap and water.
When in doubt or if symptoms are observed, get medical advice.

CNERGYICO PK LIMITED		
OIL & PRODUCT MOVEMENT		
MATERIAL SAFETY DATA SHEET		
Document No: CPL-OPM (CR&PS)-R-LEVEL-II-18	Page No: 4 of 18	
Issue Date: 15 – Sept – 2025	Revision No: 01	

In the event of a high pressure injection injury, worker should obtain immediate medical assistance.

Contact with hot product will cause thermal burns.

Immerse in cool water/wrap in wet bandages.

Get medical advice/attention.

Eye Contact : Rinse immediately carefully and thoroughly with eye-bath or water.

When in doubt or if symptoms are observed, get medical advice.

Get medical advice/attention.

In case of Ingestion : Rinse mouth thoroughly with water.

Do NOT induce vomiting.

Get immediate medical advice/attention.

Additional Advice : First aider: Pay attention to self-protection!

Personal protection equipment: see section 8

Never give anything by mouth to an unconscious person or a person with cramps.

When in doubt or if symptoms are observed, get medical advice.

Show this safety data sheet to the doctor in attendance.

Treat symptomatically.

4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Inhalation : Harmful if inhaled. The following symptoms may occur: Irritation.

Skin Contact : The following symptoms may occur: erythema (redness) Dry skin.

Eye Contact : The following symptoms may occur: Swelling of tissue blurred vision Irritation.

Ingestion : May be fatal if swallowed and enters airways. The following symptoms may occur: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Other adverse effect : May cause cancer. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure. (Blood, thymus, liver).

4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

If breathing is labored, administration of oxygen is necessary by qualified personnel. In case of accident or feeling unwell immediately seek medical advice and show the label where possible.

If INHALED: If unconscious, place in recovery position and get medical attention immediately along with administering oxygen and artificial respiration if necessary.

CNERGYICO PK LIMITED		
OIL & PRODUCT MOVEMENT		
MATERIAL SAFETY DATA SHEET		
Document No: CPL-OPM (CR&PS)-R-LEVEL-II-18	Page No: 5 of 18	
Issue Date: 15 – Sept – 2025	Revision No: 01	

If swallowed: Do not induce vomiting due to the risk of the material entering the lungs. If aspiration is suspected, seek immediate medical attention. Should vomiting occur naturally, keep the person's head lowered (below hip level) to reduce the risk of the substance entering the lungs.

SECTION 5: FIREFIGHTING MEASURES

5.1. EXTINGUISHING MEDIA

Suitable Extinguishing Media : Water spray, alcohol resistant foam, Dry extinguishing powder, Carbon dioxide, inert gas, Sand, Earth

Extinguishing media which must not be used for safety reasons : Strong water jet (may spread the fire)

5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Fire Hazard : Combustible

Specific Hazard : Not readily flammable but capable of supporting combustion. Vapors are heavier than air; caution should be exercised in low-lying or confined areas. The product can float on water and may reignite on the surface. Thermal decomposition or fire may release toxic fumes consisting of solid and liquid particulates, along with various unidentified organic and inorganic compounds. If significant sulfur compounds are present, combustion may also produce hydrogen sulfide (H₂S), sulfur oxides (SO_x), or sulfuric acid.

5.3. ADVICE FOR FIREFIGHTERS

Advice For Firefighters : Special protective equipment for firefighters.
 In case of fire: Wear self-contained breathing apparatus.
 Use water spray jet to protect personnel and to cool endangered containers.
 Use foam on spills to minimize vapors.
 Evacuate area.
 Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
 Do not allow run-off from fire-fighting to enter drains or water courses.
 Dispose according to legislation.

CNERGYICO PK LIMITED		
OIL & PRODUCT MOVEMENT		
MATERIAL SAFETY DATA SHEET		
Document No: CPL-OPM (CR&PS)-R-LEVEL-II-18	Page No: 6 of 18	
Issue Date: 15 – Sept – 2025	Revision No: 01	

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

- For non-emergency personnel :
- Evacuate area.
 - Stay upwind/keep distance from source.
 - Provide adequate ventilation.
 - Use personal protective equipment as required.
 - Personal protection equipment: see section 8
 - Do not breathe vapor/spray.
 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 - Ensure that the equipment is adequately grounded.
 - Avoid contact with skin, eyes and clothes.
 - Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.
 - Use only non-sparking tools.
 - Product may release Hydrogen Sulfide: A specific assessment of inhalation risks from the presence of hydrogen sulfide in tank headspaces, confined spaces, product residue, tank waste and waste water, and unintentional releases should be made to help determine controls appropriate to local circumstances.
- For emergency responders :
- Ensure procedures and training for emergency decontamination and disposal are in place.
 - Personal protection equipment: see section 8.

6.2. ENVIRONMENTAL PRECAUTIONS

- Environmental Precautions :
- Do not allow to enter into ground-water, surface water or drains. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

- Methods for cleaning up :
- Stop leak if safe to do so.
 - Dike the spill.
 - Clean-up methods - small spillage: Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal.

CNERGYICO PK LIMITED		
OIL & PRODUCT MOVEMENT		
MATERIAL SAFETY DATA SHEET		
Document No: CPL-OPM (CR&PS)-R-LEVEL-II-18	Page No: 7 of 18	
Issue Date: 15 – Sept – 2025	Revision No: 01	

Clean-up methods - large spillage: Large spills should be collected mechanically (remove by pumping) for disposal. Collect in closed and suitable containers for disposal.
 Use foam on spills to minimize vapors. Remove sources of Ignition. Site should have a spill plan to ensure that adequate safeguards are in place to minimize the impact of episodic releases.
 Dispose of waste product or used containers according to local regulations.

6.4. REFERENCE TO OTHER SECTIONS

Personal protection equipment: see section 8
 Disposal: see Section 13

SECTION 7: HANDLING AND STORAGE

7.1. PRECAUTIONS FOR SAFE HANDLING

Safe Handling Guidelines :

- Provide adequate ventilation.
- Use personal protective equipment as required.
- Personal protection equipment: see section 8
- Do not breathe vapor/spray.
- Avoid contact with skin, eyes and clothes.
- Take any precaution to avoid mixing with incompatible materials.
- See also section 10
- Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time).
- Do not allow contact with soil, surface or ground water.
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Ensure that the equipment is adequately grounded.
- Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.
- Use only non-sparking tools.
- As appropriate:
 - Product may release Hydrogen Sulfide: A specific assessment of inhalation risks from the presence of hydrogen sulfide in tank headspaces, confined spaces, product residue, tank waste and waste water, and unintentional releases should be made to help determine controls appropriate to local circumstances.

CNERGYICO PK LIMITED		
OIL & PRODUCT MOVEMENT		
MATERIAL SAFETY DATA SHEET		
Document No: CPL-OPM (CR&PS)-R-LEVEL-II-18	Page No: 8 of 18	
Issue Date: 15 – Sept – 2025	Revision No: 01	

Advices on general occupational hygiene : Keep good industrial hygiene.
Wash hands before breaks and immediately after using the product.
When using do not eat, drink or smoke.
Keep away from food, drink and animal feeding stuffs.
Keep work clothes separately.
Take off contaminated clothing.
Wash contaminated clothing before reuse.

7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Storage : Keep in a dry, cool and well-ventilated place.
Do not store near or with any of the incompatible materials listed in section 10.
Bund storage facilities to prevent soil and water pollution in the event of spillage.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
as appropriate:
Product may release Hydrogen Sulfide: A specific assessment of inhalation risks from the presence of hydrogen sulfide in tank headspaces, confined spaces, product residue, tank waste and waste water, and unintentional releases should be made to help determine controls appropriate to local circumstances.

Packaging materials : Keep/Store only in original container.
Suitable material:
Stainless steel
Carbon steel
Unsuitable material:
Synthetic material

7.3. SPECIFIC END USE(S)

No data available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. CONTROL PARAMETERS

CNERGYICO PK LIMITED		
OIL & PRODUCT MOVEMENT		
MATERIAL SAFETY DATA SHEET		
Document No: CPL-OPM (CR&PS)-R-LEVEL-II-18	Page No: 9 of 18	
Issue Date: 15 – Sept – 2025	Revision No: 01	

Exposure Scenario	Route of Exposure	Effect Type	Exposure Duration	DNEL Value
Worker	Oral	Systemic	Long-term	0.015 mg/kg bw/day
	Inhalation			0.18 mg/m ³
	Dermal			0.065 mg/kg bw/day
	Inhalation		4700 mg/m ³	

8.2. EXPOSURE CONTROLS

- Personal protection equipment** : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. It is recommended that emergency showers and eyewash stations be installed and easily accessible within the work area.
- Respiratory protection** : In case of insufficient ventilation, wear suitable respiratory equipment.
 Half-face mask (EN 140)
 Full face mask (EN 136)
 Filter type: ABEK / P (EN 141)
 The filter class must be suitable for the maximum contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used. (EN 137)
- Hand protection** : Wear chemically resistant gloves (tested to EN374), Suitable material, NBR (Nitrile rubber), The quality of the protective gloves Resistant to chemicals must be chosen as a function of the specific Working place concentration and quantity of hazardous substances.
- Eye protection** : Use suitable eye protection. (EN166): Safety glasses
- Body Protection** : Wear suitable protective clothing.
 Wear suitable coveralls to prevent exposure to the skin. (Chemical protection clothing)
- Thermal hazard protection** : Use dedicated equipment.
 Not required under normal use.
- Engineering control measures** : Provide adequate ventilation.
 Organizational measures to prevent/limit releases, dispersion and Exposure
 Safe handling: see section 7.
 Use only outdoors or in a well-ventilated area.

CNERGYICO PK LIMITED		
OIL & PRODUCT MOVEMENT		
MATERIAL SAFETY DATA SHEET		
Document No: CPL-OPM (CR&PS)-R-LEVEL-II-18	Page No: 10 of 18	
Issue Date: 15 – Sept – 2025	Revision No: 01	

Store locked up.

Environmental exposure controls : Comply with applicable Community environmental protection Legislation.
Do not allow contact with soil, surface or ground water.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state and color)		Dark viscous liquid
Odor		Characteristic (hydrocarbon), Fuel oil-like
Odor Threshold		Not established
pH		Not applicable
Flash point		> 60°C (ASTM D93)
Explosive (flammable) limits	Lower	1.0%
	Upper	6.0%
Vapor density		Not available
Specific Gravity		0.880-0.965 g/cm ³ at 60/60 °F
Solubility		Insoluble in water; soluble in organic solvents
Auto-ignition temperature		>225°C
Decomposition temperature		Not available
Viscosity	VLSFO / LSFO / HSFO	< 180 cst (mm ² /s) at 50°C (ASTM D445)
		< 380 cst (mm ² /s) at 50°C (ASTM D445)
Pour Point		30°C (Max)
Sulfur Content wt %.	VLSFO / LSFO / HSFO	< 0.5 wt %
		< 1.0 wt %
		< 3.5 wt %
Calorific Value Btu/lb		18,200 (Min)
Water % Vol		Traces

9.2. OTHER INFORMATION

No Data Available

SECTION 10: STABILITY AND REACTIVITY

10.1. REACTIVITY

Exposure Limit Values : Not applicable

CNERGYICO PK LIMITED		
OIL & PRODUCT MOVEMENT		
MATERIAL SAFETY DATA SHEET		
Document No: CPL-OPM (CR&PS)-R-LEVEL-II-18	Page No: 11 of 18	
Issue Date: 15 – Sept – 2025	Revision No: 01	

Reference to other sections: 10.5

10.2. CHEMICAL STABILITY

Stability : The product is stable under storage at normal ambient temperatures.

10.3. POSSIBILITY OF HAZARDOUS REACTION

Possibility of hazardous reactions : None under normal processing.

10.4. CONDITIONS TO AVOID

Conditions to avoid : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Safe handling : see section 7

10.5. INCOMPATIBLE MATERIAL

Incompatible materials : Oxidizing substances, Safe handling: see section 7

10.6. HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous decomposition products : Burning produces noxious and toxic fumes. Reference to other sections: 5.2

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. INFORMATION ON TOXICOLOGICAL EFFECT

Acute Toxicity : Inhalation: dust, mist: Harmful if inhaled.

LD50/oral/rat	> 2000 mg/kg
LD50/dermal/rat	> 2000 mg/kg

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met.)

CNERGYICO PK LIMITED		
OIL & PRODUCT MOVEMENT		
MATERIAL SAFETY DATA SHEET		
Document No: CPL-OPM (CR&PS)-R-LEVEL-II-18	Page No: 12 of 18	
Issue Date: 15 – Sept – 2025	Revision No: 01	

<p>Serious eye damage/eye irritation</p> <p>Respiratory or skin sensitization</p> <p>Germ cell mutagenicity</p> <p>Carcinogenicity</p> <p>Reproductive toxicity</p> <p>STOT-single exposure</p> <p>STOT-repeated exposure</p> <p>Aspiration hazard</p>	<p>pH: No data available</p> <p>: Not classified (Based on available data, the classification criteria are not met.)</p> <p>pH: No data available</p> <p>: Not classified (Based on available data, the classification criteria are not met.)</p> <p>: Not classified (Based on available data, the classification criteria are not met.)</p> <p>: May cause cancer.</p> <p>: Suspected of damaging the unborn child.</p> <p>: Not classified (Based on available data, the classification criteria are not met.)</p> <p>: May cause damage to organs through prolonged or repeated exposure.</p> <p>: May be fatal if swallowed and enters airways.</p>
--	--

11.2. OTHER INFORMATION

Symptoms related to the physical, chemical and toxicological characteristics. For further information, see section 4

SECTION 12: ECOLOGICAL INFORMATION

12.1. TOXICITY

Classification (GHS)	Aquatic Acute Category 1 – Very toxic to aquatic life. Aquatic Chronic Category 1 – Very toxic to aquatic life with long-lasting effects.
Acute Toxicity (Short-Term)	EL ₅₀ (48 hours, <i>Daphnia magna</i>): 0.22 mg/L (OECD Test Guideline 202).
Chronic Toxicity (Long-Term)	Estimated using the PETROTOX model. Predicted chronic toxicity for fish: 0.1 mg/L.

12.2. PERSISTENCE AND DEGRADABILITY

Persistence and degradability	: No data available Substance is complex UVCB.
-------------------------------	---

CNERGYICO PK LIMITED		
OIL & PRODUCT MOVEMENT		
MATERIAL SAFETY DATA SHEET		
Document No: CPL-OPM (CR&PS)-R-LEVEL-II-18	Page No: 13 of 18	
Issue Date: 15 – Sept – 2025	Revision No: 01	

12.3. BIOACCUMULATIVE POTENTIAL

Bioaccumulation : No data available
Substance is complex UVCB

Partition coefficient n-octanol/water : No data available

12.4. MOBILITY IN SOIL

Mobility : No data available
Substance is complex UVCB

12.5. RESULTS OF PBT AND vPvB ASSESSMENT

PBT/vPvB data : This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6. OTHER ADVERSE EFFECTS

Other information : No data available

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS

Product waste: : Handle with care.
Do not allow contact with soil, surface or ground water.
Dispose of empty containers and wastes safely.
Safe handling: see section 7
Refer to manufacturer/supplier for information on recovery/recycling.
Recycling is preferred to disposal or incineration
If recycling is not possible, eliminate in accordance with local valid waste disposal regulations

Contaminated packaging : Never use pressure to empty container.
Do not pierce or burn, even after use.
Handle contaminated packages in the same way as the substance itself.
Dispose according to legislation.

CNERGYICO PK LIMITED		
OIL & PRODUCT MOVEMENT		
MATERIAL SAFETY DATA SHEET		
Document No: CPL-OPM (CR&PS)-R-LEVEL-II-18	Page No: 14 of 18	
Issue Date: 15 – Sept – 2025	Revision No: 01	

List of proposed waste codes/waste designations in accordance with EWC : Classified as hazardous waste according to European Union regulations.
Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

SECTION 14: TRANSPORT INFORMATION

14.1. UN NUMBER

UN number : 3082

14.2. UN PROPER SHIPPING NAME

Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
IATA/IMDG

14.3. TRANSPORT HAZARD CLASS(ES)

14.3.1. OVERLAND TRANSPORT

Class(es) : 9 - Miscellaneous dangerous substances and articles
Hazard identification number : 90
(Kemler No.)
Classification code : M6
ADR/RID-Labels : 9 - Miscellaneous dangerous substances and articles



14.3.2. INLAND WATERWAY TRANSPORT (ADN)

ADN : Hazards : 9 + N1+CMR+Fp
Class (UN) : 9

14.3.3. TRANSPORT BY SEA

Class or Division : 9 - Miscellaneous dangerous substances and articles

CNERGYICO PK LIMITED		
OIL & PRODUCT MOVEMENT		
MATERIAL SAFETY DATA SHEET		
Document No: CPL-OPM (CR&PS)-R-LEVEL-II-18	Page No: 15 of 18	
Issue Date: 15 – Sept – 2025	Revision No: 01	

14.3.4. AIR TRANSPORT

Class or Division : 9 - Miscellaneous dangerous substances and articles

14.4. PACKING GROUP

Packing group : III

14.5. ENVIRONMENTAL HAZARD

Environmental hazards : N



Other Information : ADN : N1.

14.6. SPECIAL PRECAUTION FOR USER

Special precautions for user : No Data Available

14.7. TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE

No Data Available

SECTION 15: REGULATORY INFORMATION

15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

15.1.1. EU-REGULATIONS

The following restrictions are applicable according to :

Annex XVII of the REACH Regulation (EC) No 1907/2006

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive : Liquid Fuel Oil, Residual

CNERGYICO PK LIMITED		
OIL & PRODUCT MOVEMENT		
MATERIAL SAFETY DATA SHEET		
Document No: CPL-OPM (CR&PS)-R-LEVEL-II-18	Page No: 16 of 18	
Issue Date: 15 – Sept – 2025	Revision No: 01	

1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008

Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as Carcinogen category 1A or 1B (Table 3.1) or Carcinogen category 1 or 2 (Table 3.2) and listed as follows: Carcinogen category 1A (Table 3.1)/Carcinogen category 1 (Table 3.2) listed in Appendix 1 Carcinogen category 1B (Table 3.1)/Carcinogen category 2 (Table 3.2) listed in Appendix 2

This product contains an ingredient according to the candidate list of Annex XIV of the REACH Regulation 1907/2006/EC.

Authorizations : Not applicable

15.1.2. NATIONAL REGULATIONS

DE : WGK : 3
 DE : TA-Luft : Carcinogenic substances
 DE : Technische Regeln für Gefahrstoffe (TRGS) : Applicable
 FR : Installations classes : 117X
 NL : ABM : 3 - May cause cancer. (A)
 NL : NeR (Nederlandse emissie Richtlijn) : Organic substances in vapor or gaseous form
 NO : Produktforskriften (FOR 2004-06-01 nr 922) : Carcinogen

15.2. CHEMICAL SAFETY ASSESSMENT

Chemical Safety Assessment : For this substance a chemical safety assessment has not been carried out.

Full text of R-, H- and EUH-phrases:

Acute Tox. 4 (Inhalation) : Acute toxicity (inhal.), Category 4
 Acute Tox. 4 (Inhalation: dust, mist) : Acute toxicity Category 4
 Aquatic Acute 1 : Hazardous to the aquatic environment - Aquatic Acute 1
 Aquatic Chronic 1 : Hazardous to the aquatic environment - chronic hazard category 1

CNERGYICO PK LIMITED		
OIL & PRODUCT MOVEMENT		
MATERIAL SAFETY DATA SHEET		
Document No: CPL-OPM (CR&PS)-R-LEVEL-II-18	Page No: 17 of 18	
Issue Date: 15 – Sept – 2025	Revision No: 01	

- Asp. Tox. 1 : Aspiration hazard, Category 1
- Carc. 1B : Carcinogenicity, Category 1B
- Repr. 2 : Reproductive toxicity, Hazard Category 2
- STOT RE 2 : Specific target organ toxicity — Repeated exposure, Category 2
- H304 : May be fatal if swallowed and enters airways.
- H332 : Harmful if inhaled.
- H350 : May cause cancer.
- H361d : Suspected of damaging the unborn child.
- H373 : May cause damage to organs through prolonged or repeated exposure.

- H400 : Very toxic to aquatic life.
- H410 : Very toxic to aquatic life with long lasting effects.
- R20 : Harmful by inhalation.
- R45 : May cause cancer.
- R48/21 : Harmful: danger of serious damage to health by prolonged exposure in contact with skin.

- R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- R63 : Possible risk of harm to the unborn child.
- R66 : Repeated exposure may cause skin dryness or cracking.
- N : Dangerous for the environment
- Xn : Harmful
- Key literature references and sources for data : LOLI

- Abbreviations and acronyms :
 - DNEL = Derived No Effect Level
 - Derived minimal effect level
 - Predicted No Effect Concentration
 - Occupational Exposure Limits - Short Term Exposure Limits (STELs)
 - time weighted average
 - Median lethal concentration
 - Median lethal dose
 - Median lethal level
 - EC50 = Median Effective Concentration
 - EL50 = Median effective level
 - ErC50 = EC50 in terms of reduction of growth rate
 - ErL50 = EL50 in terms of reduction of growth rate
 - No-observed-effect level
 - NOELR = No observed effect loading rate
 - NOAEC = No observed adverse effect concentration
 - NOAEL = No observed adverse effect level

CNERGYICO PK LIMITED		
OIL & PRODUCT MOVEMENT		
MATERIAL SAFETY DATA SHEET		
Document No: CPL-OPM (CR&PS)-R-LEVEL-II-18	Page No: 18 of 18	
Issue Date: 15 – Sept – 2025	Revision No: 01	

European Waste Catalogue

Not applicable

N.O.S. = Not Otherwise Specified

Volatile organic compounds

mg/kg bodyweight

Quantitative structure-activity relationship (QSAR)

ADN = Accord Européen relatif au Transport International des
Marchandises

Dangereuses par voie de Navigation du Rhin

ADR = Accord européen relatif au transport international des
marchandises

Dangereuses par Route

CLP = Classification, Labelling and Packaging Regulation according to
1272/2008/EC

IATA = International Air Transport Association

IMDG = International Maritime Dangerous Goods Code

LEL = Lower Explosive Limit/Lower Explosion Limit

UEL = Upper Explosion Limit/Upper Explosive Limit

REACH = Registration, Evaluation, Authorisation and Restriction of
Chemicals

WGK = Wassergefährdungsklasse (Water Hazard Class under
German Federal Water Management Act)

ABM = Algemene beoordelingsmethodiek

BTT = Breakthrough time (maximum wearing time)

STOT = Specific Target Organ Toxicity

DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.