



SAFETY DATA SHEET KALYAK

This Safety Data Sheet is in accordance with Regulation (EC) No 1907/2006 (REACH).
Commission Regulation (EU) 2020/878 of 18 June 2020.

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

1.1. Product identifier

Product name	KALYAK
Chemical name	Fuel oil, residual
CAS No	68476-33-5
EC No	270-675-6

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

Identified uses	Used in heating boilers at homes, used as boiler and oven fuel in industry.
Uses advised against	No data available.

1.3. Details of the supplier of the safety data sheet

Supplier	Akpet Akaryakıt Dağıtım A.Ş. Akatlar Mahallesi, Ebululla Mardin Caddesi No: 22 Maya Park Tower I, 34335 Beşiktaş / İstanbul / Turkey Tel: +90 212 376 66 00 www.lukoil.com.tr e-mail: info@lukoil.com.tr
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Contact Person HSE Manager

1.4. Emergency telephone number

LUKOIL: +90 444 45 85 (7/24)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC No. 1272/2008 and SI 2019 No. 720)

Physical and Chemical Hazards	Flam. Liq. 3 - H226
Human health Hazards	Acute Tox. 4 - H332; Carc. 1B - H350; Repr. 2 - H361d; STOT RE 2 - H373
Environment Hazards	Aquatic Acute 1 - H400; Aquatic Chronic 1 - H410

2.2. Label elements

Label In Accordance With (EC) No. 1272/2008

CAS No: 68476-33-5



Signal Word Danger

Hazard Statements

H226	Flammable liquid and vapour.
H332	Harmful if inhaled.



SAFETY DATA SHEET KALYAK

This Safety Data Sheet is in accordance with Regulation (EC) No 1907/2006 (REACH).
Commission Regulation (EU) 2020/878 of 18 June 2020.

H350	May cause cancer.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary Statements

P201	Obtain special instructions before use.
P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P243	Take precautionary measures against static discharge.
P260	Do not breathe gas, fume, vapours or spray.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective clothing and gloves.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P331	Do NOT induce vomiting.
P391	Collect spillage.
P501	Dispose of contents/container in accordance with national regulations.

Supplemental label information

EUH066	Repeated exposure may cause skin dryness or cracking.
RCH002	Restricted to professional users.

2.3. Other hazards

This material can contain hydrogen sulphide (H₂S), a very toxic and extremely flammable gas. Vapours containing hydrogen sulphide may accumulate during storage or transport and may also be vented during filling of tanks. Hydrogen sulphide has a typical "bad egg" smell but at high concentrations the sense of smell is rapidly lost, therefore do not rely on sense of smell for detecting hydrogen sulphide. May cause damage to aquatic organisms.

Spillages prevent the transfer of oxygen by forming a film layer on the water surface.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Name	EC No.	CAS No.	Content	Classification (EC 1272/2008)
Fuel oil, residual	270-675-6	68476-33-5	100%	Flam. Liq. 3 - H226 Acute Tox. 4 - H332 Carc. 1B - H350 Repr. 2 - H361d STOT RE 2 - H373 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 EUH066

The Full Text for all hazard statements are displayed in section 16.

Composition Comments

The data shown are in accordance with the latest EC Directives.



SAFETY DATA SHEET KALYAK

This Safety Data Sheet is in accordance with Regulation (EC) No 1907/2006 (REACH).
Commission Regulation (EU) 2020/878 of 18 June 2020.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information

Get medical attention if any discomfort continues.

Inhalation

Move into fresh air and keep at rest. Rinse nose and mouth with water. If necessary, should be applied artificial respiration and heart massage. If there should be given oxygen. Get medical attention if any discomfort continues.

H₂S effect: People affected by H₂S should be removed to fresh air and medical precautions should be taken without delay. If affected person is unconscious he/she should be laid on his/ her back, should be given artificial respiration, heart massage and oxygen and taken to a doctor.

Ingestion

Immediately rinse mouth. Keep person under observation. Do not induce vomiting.
If vomiting occurs, keep head low. Transport immediately to hospital and bring along these instructions.

Skin contact

Immediately remove contaminated clothing. Wash off promptly and flush contaminated skin with water.
Promptly remove clothing if soaked through and flush skin with water.
Large quantities: Remove contaminated clothing. Flush skin thoroughly with water. Get medical attention if any discomfort continues.

Eye contact

Make sure to remove any contact lenses from the eyes before rinsing.
Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention promptly if symptoms occur after washing.

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

Inhalation : Headache, dizziness, and nausea.
Ingestion : Nausea, vomiting, diarrhea.
Skin contact : Redness, dryness, cracks.
Eye contact : Eye irritation, redness, lacrimation.

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

Treat Symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

Use: Foam. Carbon dioxide (CO₂). Dry chemicals, sand, earth, water mist.

Unsuitable extinguishing media DO NOT use water jet.

5.2. Special hazards arising from the substance or mixture

Unusual Fire & Explosion Hazards

Vapours may form explosive mixtures with air.

Vapor is heavier than air so that it can leaking to sewer system and may reach to further ignition sources.

Specific hazards

Result of thermal decomposition may occur fume, carbon oxides and organic compounds with low molecular weight compounds which are not yet considered. Sulfur oxides (SO_x). Hydrogen Sulphide (H₂S)



SAFETY DATA SHEET

KALYAK

This Safety Data Sheet is in accordance with Regulation (EC) No 1907/2006 (REACH).
Commission Regulation (EU) 2020/878 of 18 June 2020.

5.3. Advice for firefighters

Special Fire Fighting Procedures

Dike and collect extinguishing water.

Keep away all non-emergency personnel from fire area.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Fires in enclosed places should be extinguished by trained personnel wearing protective clothing and an oxygen mask.

Protective equipment for fire-fighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet.

Do not smoke, use open fire or other sources of ignition (cigarette, portable electrical devices such as battery-operated flashlight, radio, mobile phone). Immediately shut the devices in the environment which can cause sparkles.

Provide adequate ventilation. In case of spills, beware of slippery floors and surfaces.

Immediately ventilate the area by opening doors and windows when Kalyak leak is defined in the enclosed environment. Shut off the diesel flow by closing Kalyak tanks, hood or valves. Continue ventilation until the diesel smell is removed in the environment.

Leak may be prevented from spreading by spraying water with fog nozzle and shielding according to the direction of the wind.

6.2. Environmental precautions

Barrier should be used to prevent the spread when poured into water and product should be recollected on the water surface.

Please contact with experts in case of spillage.

6.3. Methods and material for containment and cleaning up

Eliminate all ignition sources. Stop leak if without risk. May be in liquid, semi solid and solid forms depending on its temperature.

Large spills must remain in foam cover until danger is over.

Use a non-combustible material such as vermiculite, sand or earth to absorb the product and place into a container for later disposal.

Wash the area with soap and water. Spills and contaminated materials are collected from the work area as soon as possible and placed into a suitable container and ingredients are indicated on the container.

Must be treated by trained personnel using oxygen mask due to H₂S can be spread from spilled hot liquid in closed area.

6.4. Reference to other sections

For personal protection, see section 8.

See section 11 for additional information on health hazards.

For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid contact with eyes and skin. Use appropriate goggles and gloves. Keep away from heat, sparks and open flame.

During application and drying, solvent vapours will be emitted. Do not eat, drink or smoke when using the product.

If it is suspected of sulphur compounds found in product, check the atmosphere for the amount of H₂S.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place.

Keep away from food, drink and animal feeding stuffs. Protect against physical damage and/or friction.

Protect from heat, sparks and flame. Keep in a cool, well-ventilated area.

Store away from incompatible materials.

It should be stored in tanks designing according to the product.

Storage tanks should be labeled and should be kept closed when out of use.

Do not remove the warning signs since some products may be present in empty tanks.

Despite the possibility of the empty tanks containing product vapor should not be done cutting, welding, soldering processes.



SAFETY DATA SHEET KALYAK

This Safety Data Sheet is in accordance with Regulation (EC) No 1907/2006 (REACH).
Commission Regulation (EU) 2020/878 of 18 June 2020.

If the concentration of hydrocarbon vapor is more than 1%, oxygen concentration is less than 20% in the tank should not be entered without oxygen mask.

There is possibility of ignition vapour of product are collected in the storage tanks. Therefore, static electricity must be discharged. Measures should be taken against the igniton source while filling and discharge.

Equipments such as pumps etc. must be earthed or transmission cables must be connected each other by a cable to avoid accumulation of static electricity.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
Fuel oil, residual	ACGIH	10 ppm	0.2 mg/m ³	15 ppm		

ACGIH : American Conference of Industrial Hygienists

OEL : Occupational Exposure Limit.

DNELs (Derived No Effect Level)

Name	Type	Exposure	Value	Population	Effects
Fuel oil, residual	DNEL	Short-term (15 min) - inhalation	4716.8 mg/m ³	Workers	Systemic
		Long-term (8 hours) -dermal	0.065 mg/kg bw/day	Workers	Systemic
		Long-term (8 hours) - inhalation	0.18 mg/m ³	Workers	Systemic
		Long-term (24 hours)- oral	0.015 mg/kg bw/day	Consumers	Systemic

8.2. Exposure controls

Protective equipment



Process conditions

Provide eyewash, quick drench.

Engineering measures

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

Respiratory equipment

Appropriate respiratory equipment should be used when the possibility of exposure to hydrocarbon vapor. Use oxygen mask to protect from H₂S. Masks in accordance with EN138, EN141 standard.

Hand protection

For prolonged or repeated skin contact use suitable protective gloves. Gloves in accordance with EN374. Nitrile, neoprene gloves are recommended. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.



SAFETY DATA SHEET

KALYAK

This Safety Data Sheet is in accordance with Regulation (EC) No 1907/2006 (REACH).
Commission Regulation (EU) 2020/878 of 18 June 2020.

Eye protection

Wear approved safety goggles. Goggles in accordance with EN166 standard.

Hygiene measures

Promptly remove non-impervious clothing that becomes contaminated. When using do not eat, drink or smoke.
Wash hands after contact. Wash promptly if skin becomes contaminated.

Skin protection

Protective clothing should be worn. Anti-static and flame-retardant protective clothing is recommended to wear.

Environmental Exposure Controls

Please act in accordance with local and national laws.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Identifier	Unit	Value	Test method
Appearance		Liquid	
Colour		Black	
Odour		Hydrocarbon Odor.	
Odour threshold		No information available.	
pH value		No information available.	
Initial boiling point and range		No information available.	
Evaporation rate		No information available.	
Flammability (solid,gas)		No information available.	
Density, 15 °C	kg/m ³	Max.950	
Flash Point	°C	>56	TS EN ISO 2719
Auto-ignition temperature	°C	250 - 537	
Melting point / freezing point	°C	<30°C	
Flammability or explosive limits - lower	%	0.5	
Flammability or explosive limits - upper	%	5	
Viscosity (@100°C)	cSt	Max.10	TS 1451 EN ISO 3104
Sulfur	% weight	0.1 - 1.0	TS EN ISO 8754
Vapor pressure		No information available.	
Vapor density		No information available.	
Relative density		No information available.	
Specific gravity		No information available.	
Solubility		No information available.	
Coefficient of dispersion: n-octanol/water		No information available.	
Decomposition temperature		No information available.	
Oxidizing properties		No information available.	
Explosive properties		No information available.	
Particle characteristics		Not applicable.	



SAFETY DATA SHEET KALYAK

This Safety Data Sheet is in accordance with Regulation (EC) No 1907/2006 (REACH).
Commission Regulation (EU) 2020/878 of 18 June 2020.

9.2. Other information

No information required.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

Will not polymerise.

10.4. Conditions to avoid

Should be kept away from sources of ignition.

10.5. Incompatible materials

Avoid contact with strong reducing agent (oxidizing).

10.6. Hazardous decomposition products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

Thermal decomposition productions varies depending on conditions. If storage tank heats up, increase H₂S gas.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute Toxicity

Harmful if inhaled.

Fuel oil, residual

LD50, oral, rat	4320 mg/kg
LC50, inhalation, rat	4100 mg/m ³
LC50, inhalation, mouse	>1-5 mg/l, 4 hours
LD50, dermal, rabbit	2000 mg/kg

Skin Irritation/Corrosion

Based on available data the classification criteria are not met. Repeated exposure may cause skin dryness and cracks.

Name	Test	Test number	Species	Exposure	Result	Remarks
Fuel oil, residual	AB	B.4	Rabbit	Skin	Non-irritant to skin.	Based on Heavy fuel oil

Serious eye damage / irritation

Based on available data the classification criteria are not met. May be slightly irritating in contact with eyes.

Name	Test	Test number	Species	Exposure	Result	Remarks
Fuel oil, residual	AB	B.5	Rabbit	Eyes	Non-irritant to eyes.	Based on Heavy fuel oil



SAFETY DATA SHEET KALYAK

This Safety Data Sheet is in accordance with Regulation (EC) No 1907/2006 (REACH).
Commission Regulation (EU) 2020/878 of 18 June 2020.

Skin or respiratory sensitivity

Based on available data the classification criteria are not met.

Name	Test	Test number	Species	Exposure	Result	Remarks
Fuel oil, residual	AB	B.6	Guinea pig	Skin	Not sensitising	Based on Heavy fuel oil

Germ cell mutagenicity:

Based on available data the classification criteria are not met.

Name	Test	Cell	Experiment	Type	Result	Remarks
Fuel oil, residual	Equivalent to OECD 476	--	In vitro	Subject: Mammal - species	Positive	Based on Catalytic cracked clarified oil (CCCO)
	Equivalent to OECD 471	--	In vitro	Subject: Non-mammalian species	Positive	Based on Catalytic cracked clarified oil (CCCO)
	Equivalent to OECD 475	Germ	In vivo	Subject: Unspecified	Negative	Based on Catalytic cracked clarified oil (CCCO)
	Equivalent to OECD 474	Germ	In vivo	Subject: Unspecified	Negative	Based on Catalytic cracked clarified oil (CCCO)

Carcinogenicity:

May cause cancer.

Name	Test	Species	Route	Exposure	Result	Remarks
Fuel oil, residual	Equivalent to OECD 451	Mouse	Dermal	Lifetime	Positive	Based on Catalytic cracked clarified oil (CCCO)

Reproductive Toxicity – Fertility/ Development

Suspected of damaging the unborn child.

Name	Test	Species	Route	Exposure	Developmental	Fertility	Remarks
Fuel oil, residual	EPA	Rat	Dermal	70 days no effects observed	---	Negative	Based on Catalytic cracked clarified oil (CCCO)
	EPA	Rat	Dermal	20 days Effects observed	Positive	---	Based on atmospheric residue

Specific target organ toxicity - single exposure:

Based on available data the classification criteria are not met.

Name	Test	Species	Route	Type	Dose	Exposure	Target organs	Remarks
Fuel oil, residual	Equivalent to OECD	Rat	Oral	LOAEL	>2000 mg/kg			Based on Catalytic cracked clarified oil (CCCO)



SAFETY DATA SHEET KALYAK

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Commission Regulation (EU) 2020/878 of 18 June 2020.

EPA	Rat	Inhalation	LOAEL	10 to 20 mg/l	4 hours	
OECD	Rabbit	Dermal	LOAEL	>2000 mg/kg	90 days	liver blood

Specific target organ toxicity - repeated exposure:

May cause damage to organs through prolonged or repeated exposure.

Name	Test	Species	Route	Type	Dose	Exposure	Target organs	Remarks
Fuel oil, residual	Equivalent to EPA	Rat	Dermal	LOAEL	20 to 200 mg/kg	90 days	liver blood	Based on Catalytic cracked clarified oil (CCCO)

Aspiration hazard

Based on available data the classification criteria are not met.

Inhalation

In high concentrations, vapours may irritate throat and respiratory system and cause coughing.

In case of mist or vapour inhalation, eyes, nose and throat are irritated. Inhalation is dangerous due to H₂S and PCA.

Ingestion

It is harmful if swallowed in small doses. If swallowed a greater amount causes nausea and diarrhea. If exceed to lungs damages during vomiting.

Skin contact

If skin contact with hot product forms skin burn. Prolonged or repeated contact can cause skin diseases and skin cancer due to containing Polycyclic Aromatic Hydrocarbons.

Eye contact

May cause temporary eye irritation. Visual disturbances including blurred vision.

In case of accidentally eye contact causes temporary blindness.

11.2 Information on other hazards

This product does not contain any known or suspected endocrine disruptors.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Name	Test	Species	Type	Exposure	Effects	Remarks
Fuel oil, residual	OECD 202	Daphnia	Acute EL50 2 mg/l Nominal Fresh water	48 hours	Mobility	Based on Heavy fuel oil
	OECD 203	Fish	Acute LL50 79 mg/l Nominal Fresh water	96 hours	---	Based on residual fuel oil
	Modelled data	Daphnia	Chronic NOEL 0.27 mg/l Nominal Fresh water	21 days	Reproduction	-----
	Modelled data	Fish	Chronic NOEL 0.1 mg/l Nominal Fresh water	28 days	Mortality	-----



SAFETY DATA SHEET KALYAK

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12.2. Persistence and degradability

This product is soluble in the soil without harming the environment.
Volatile components in the product have the photochemical ozone formation potential.

12.3. Bioaccumulative potential

Accumulates in soil.

12.4. Mobility in soil

Not available.

12.5. Results of PBT and vPvB assessment

Not available.

12.6. Endocrine disrupting properties

The product does not contain any endocrine disrupting substance.

12.7. Other adverse effects

Very toxic to aquatic life with long lasting effects.

SECTION 13: DISPOSAL CONSIDERATIONS

General information

Disposed of as hazardous waste. Waste must be treated as the product itself.

13.1. Waste treatment methods

Empty containers, dispose of waste and residues in accordance with legislation of the local authority.
Environmental manager must be informed of all major spillages.
Make sure containers are empty before discarding. Empty containers must not be burned because of explosion hazard.
Please recycle empty pack in accordance with legislation of the local authority. Do not re-use empty containers.
Some products may remain in empty containers. Do not perform heat treatment without erased or removed danger signs or label from empty containers.

European waste catalogue (EWC)

13 07 01* fuel oil and diesel

SECTION 14: TRANSPORT INFORMATION

14.1. UN number or ID number

UN No. (ADR/RID/ADN)	1993
UN No. (IMDG)	1993
UN No. (ICAO)	1993

14.2. UN proper shipping name

Proper Shipping Name	FLAMMABLE LIQUID, N.O.S. (Fuel oil, residual)
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14.3. Transport hazard class(es)

ADR/RID/ADN Class	3
ADR/RID/ADN Class	Class 3: Flammable liquid
ADR Label No.	3
IMDG Class	3
ICAO Class/Division	3



SAFETY DATA SHEET

KALYAK

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Transport Labels



14.4. Packing group

ADR/RID/ADN Packing group	III
IMDG Packing group	III
ICAO Packing group	III

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant



14.6. Special precautions for user

EMS	F-E, S-E
ADR transport category	3
Emergency Action Code	•3Y
Hazard No. (ADR)	30
Tunnel restriction code	(D/E)
Limited quantities	5 L

14.7. Maritime transport in bulk according to IMO instruments

No data available.

SECTION 15: REGULATORY INFORMATION

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

- Commission Regulation (EU) 2020/878 of 18 June 2020.
- Health and Safety at Work etc. Act 1974 (as amended).
- EH40/2005 Workplace exposure limits.
- Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Seveso Directive

E1	Low Tier: 100 tonnes	Upper Tier: 200 tonnes
P5c	Low Tier: 5000 tonnes	Upper Tier: 50000 tonnes

Restrictions (Annex XVII Regulation 1907/2006)

Entry: 28 (CAS: 68476-33-5)

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.



SAFETY DATA SHEET KALYAK

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Commission Regulation (EU) 2020/878 of 18 June 2020.

SECTION 16: OTHER INFORMATION

Abbreviations used in safety data sheet

ADR: European Agreement on International Carriage of Dangerous Goods by Road.
ADN: European Agreement on the International Carriage of Dangerous Goods by Inland Waterways.
RID: European Agreement on International Carriage of Dangerous Goods by Rail.
IATA: International Air Transport Association.
ICAO-TI: Technical Specification for Safe Transport of Dangerous Goods by Air.
IMDG: International Maritime Dangerous Goods.
TWA: Time weighted average
ATE: Estimated value of acute toxicity
EC No: European Community number
CAS: Chemical Theory Service.
LD50: Substance that causes 50% (half) death in the test animals group (Median Fatal Dose).
LC50: Substance concentration causing 50% (half) death in the test animals group.
EC50: Effective Concentration of the substance causing the maximum of 50%.
PBT: Persistent, Bioaccumulative and Toxic substance.
vPvB: Very Persistent, Very Bioaccumulative.
SEA: Classification, labeling, packaging regulation
DNEL: Derivative Inactive Level
PNEC: Estimated Unaffected Concentration
BHOT: Specific Target Organ Toxicity

Information Sources

This SDS is written based on the information received from rawmaterial supplier.
European Chemicals Agency (ECHA)

Revision Comments

Revised under current regulations.

Hazard Statements In Full

H226	Flammable liquid and vapour.
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.
EUH066	Repeated exposure may cause skin dryness or cracking.

Issued By

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Issued Note

This SDS is prepared based on the information and documents received from product owner. CRAD or/and SDS author shall not be responsible for incorrect prepared of SDS and pecuniary loss or intangible damages because of deficient or wrong information and documents which comes from product owner.

Disclaimer

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.