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SECTION 1: IDENTIFICATION

Product identifier Product name CAS No.

Other means of identification

Diesel Fuels 68476-34-6

Diesel Fuels All Grades, Diesel Fuel No.2, Fuel Oil No. 2, High Sulfur Diesel Fuel, Low Sulfur Diesel Fuel, Ultra Low Sulfur Diesel Fuel, CARB (California Air Resource Board) Diesel Fuel, Off-Road Diesel Fuel, Dye Diesel Fuel, X Grade Diesel Fuel, X-1 Diesel Fuel, R5 ULSD, B5 ULSD, Home Heating Oil, X Grade Middle Distillate, Heating X-Grade Oil Petroleum Distillate-Gas Oil & Light Gas Oil, LightFuel Oil, Petroleum Distillate-Gas Oil #2 & #3

Relevant identified uses of the substance or mixture and uses advised against Identified Use(s) Uses advised against

Details of the supplier of the safety data sheet Supplier

Telephone Fax E-mail (competent person)

Emergency telephone number Emergency Phone No. Motor fuels. Anything other than the above.

Vitol Inc. 2925 Richmond Ave, 11th Floor Houston, TX 77098 (713) 230-1000 713-230-1185 SDSHOU@vitol.com

Chemtrec: US/Canada: 1-800-424-9300 (24h) Mexico: 800 681 9531 (24h)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture in accordance with paragraph (d) of 29 CFR 1910.1200

Environmental hazards Label elements	Acute toxicity, Category 4 (Inhalation) Carcinogen, Category 2 Specific target organ toxicity — repeated exposure, Category 2 (Bone marrow, Liver, Thymus Hazardous to the aquatic environment, Chronic, Category 2
Hazard Pictogram(s)	

DANGER

Flammable liquid and vapour. May be fatal if swallowed and enters airways. Causes skin irritation. May cause drowsiness or dizziness. May cause genetic defects.

Signal Word(s)

Hazard Statement(s)

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	Ouspected of clausing cancer.
	Suspected of damaging fertility or the unborn child.
	Toxic to aquatic life with long lasting effects.
Precautionary Statement(s)	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed.
	Store in a well-ventilated place. Keep cool.
	Obtain special instructions before use.
	Do not breathe vapour.
	Wear protective gloves/eye protection/face protection.
	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
	lenses, if present and easy to do. Continue rinsing.
	Immediately call a POISON CENTER/doctor.
	Do NOT induce vomiting.
	Avoid release to environment.
	Dispose of contents in accordance with local, state or national legislation.
Other hazards	The vapour is heavier than air; beware of pits and confined spaces. May cause irritation to eyes and air passages.
Percent of the mixture consists of ingredient(s) of unknown acute toxicity:	0% of the mixture consists of ingredients of unknown acute inhalated toxicity. 0% of the mixture consists of ingredients of unknown acute oral toxicity.
	0% of the mixture consists of ingredients of unknown acute dermal toxicity.

Suspected of causing cancer.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Classification: OSHA HCS (29 CFR 1910.1200)

	Chemical identity of the substance	%W/W	CAS No.	EC No.
	Fuels, diesel, no. 2	95 - 100	68476-34-6	270-676-1
Hazardous const	ituents	•	•	
	Chemical identity of the substance	%W/W	CAS No.	EC No.
	Biodiesel - Fatty acid methyl esters	0 - 5	67762-38-3	267-015-4
	Alkanes,C10-C20-Branched And Linear	0 - 5	928771-01-1	618-882-6
	Naphthalene	0 - 0.2	91-20-3	202-049-5

SECTION 4: FIRST AID MEASURES



Description of first aid measures Self-protection of the first aider Eliminate sources of ignition. If it is suspected that fumes are still present, the responder should wear an appropriate mask or self-contained breathing apparatus. Drench contaminated clothing with water before removing to avoid risk of sparks from static electricity. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Avoid all contact. Do not ingest. If swallowed then seek immediate medical assistance. Inhalation IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical advice/attention if you feel unwell. Skin contact IF ON SKIN (or hair): Remove contaminated clothing immediately and wash affected skin with plenty of water or soap and water. If irritation (redness, rash, blistering) develops, get medical attention.

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Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get
Ingestion	medical advice/attention. IF SWALLOWED: Do not induce vomiting because of risk of aspiration into the lungs. If vomiting occurs spontaneously, keep head below hips to prevent aspiration into the lungs. If unconscious, place in recovery position and get medical attention immediately. Do not give anything by mouth to an unconscious person. Get medical attention immediately. Do not wait for symptoms to appear.
Most important symptoms and effects, both acute and delayed	Inhalation: May cause drowsiness or dizziness. Headache, nausea and vomiting. Skin contact: Causes skin irritation. Eye contact: Causes serious eye irritation. Ingestion: Aspiration into the lungs may cause chemical pneumonitis, which can be fatal. Ingestion may cause irritation of the gastrointestinal tract. Nausea, Vomiting and Diarrhoea
Indication of any immediate medical attention and special treatment needed	Treat symptomatically.
Notes to a physician:	IF INHALED: If unconscious, place in recovery position and get medical attention immediately. Administer oxygen if available and artificial respiration if necessary. IF SWALLOWED: Do not induce vomiting because of risk of aspiration into the lungs. If aspiration is suspected obtain immediate medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration into the lungs.
TION 5: FIREFIGHTING MEASURES	

SECT

Extinguishing media Suitable extinguishing media

Unsuitable extinguishing media Special hazards arising from the substance or mixture

Extinguish with sand or dry chemical. Foam, Carbon dioxide, Water fog or dry powder

Do not use water jet. Direct water jet may spread the fire.

Flammable liquid and vapour. Will float and can be reignited on surface water. Decomposes in a fire giving off toxic fumes: A mixture of solid and liquid particulates and gases including unidentified organic and inorganic compounds. May form explosive mixture with air. Prevent liquid entering sewers, basements and any watercourses. Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback. If sulphur compounds are present in appreciable amounts, combustion products may include also H2S and SOx (sulfur oxides) or sulfuric acid

Fight fire with normal precautions from a reasonable distance. Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Keep containers cool by spraying with water if exposed to fire. Avoid release to the environment. Dike fire control water for later disposal.

Advice for firefighters

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Caution - spillages may be slippery. Ensure operatives are trained to minimise exposures. Ensure suitable personal protection during removal of spillages. Eliminate sources of ignition. Shut off leaks if without risk. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid all contact with substance. Ensure adequate ventilation Do not breathe vapour. Do not ingest. If swallowed then seek immediate medical assistance. Do not use sparking tools. Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems.
Methods and material for containment and cleaning up	Provided it is safe to do so, isolate the source of the leak. Use non-sparking equipment when picking up flammable spill. The vapour is heavier than air; beware of pits and confined spaces. Ensure that the equipment is adequately grounded. Allow small spillages to evaporate provided there is adequate ventilation. Wear flame-resistant antistatic protective clothing. Wear chemical

protection suit and breathing apparatus.

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SECTION 7: HANDLING AND STORAGE

Conditions for safe storage, including any incompatibilitiesafter handling. Contaminated clothing should be thoroughly cleaned Light hydrocarbon vapours can build up in the headspace of conta can cause flammability / explosion hazards. Bund storage facilities t and water pollution in the event of spillage. Keep only in original pad containers properly sealed when not in use. Protect from sunlight. this material may be hazardous when empty since they retain pro Empty container may contain product residue which may result in explosive vapours inside the container.	ainers. These to prevent soil ckaging. Keep Containers of oduct residue.
Storage temperature Stable at ambient temperatures.	
Storage measures Suitable containers: Stainless steel, Mild steel Do not store in: Synthetic materials	
Incompatible materials Keep away from oxidising agents.	

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m ³)	Note
Fuels, diesel, no. 2	68476-34-6	100	-	-	-	ACGIH, Sk, A3
Biodiesel - Fatty acid methyl esters		100	375	150	560	NIOSH
	67762-38-3	-	-	300	-	OSHA
		20	-	-	-	ACGIH
Naphthalene		10	50	15*	75*	NIOSH
	91-20-3	10	50			OSHA
	-	10	-	-	-	ACGIH, Sk, A3

Note: OSHA PELs 1910.1000 TABLE Z-1/2/3 / NIOSH RELs / ACGIH TLVs

*NIOSH 15 minute average values

Sk - Can be absorbed through skin.

A3: Confirmed Animal Carcinogen with Unknown Relevance to Humans: The agent is carcinogenic in experimental animals at a relatively high dose, by route(s) of administration, at site(s), of histological type(s), or by mechanism(s) that may not be relevant to worker exposure. Available epidemiological studies do not confirm an increased risk of cancer in exposed humans. Available evidence does not suggest that the agent is likely to cause cancer in humans except under uncommon or unlikely routes or levels of exposure.

Biological exposure indicies

SUBSTANCE	CAS No.	Determinant	Biological Exposure Indices	Sampling Time	Note
Naphthalene	91-20-3	1-Naphthol* + 2-Naphthol*	-	End of shift	Nq, Ns

Source: ACGIH: American Conference of Governmental Industrial Hygienists - Biological Exposure Index (BEI) 2019

Note:

Nq: Nonquantitative

Ns: The determinant is nonspecific, since it is also observed after exposure to other chemicals.

Appropriate engineering controls

Provide adequate ventilation, including appropriate local extraction if dusts, fumes or vapours are likely to be evolved. Store in a cool/low-temperature, well-

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ventilated (dry) place away from heat and ignition sources. Guarantee that the eye flushing systems and safety showers are located close to the working place.

Individual protection measures, such as personal protective equipment Fuels are typically used, transferred and transported in closed systems. If exposure is likely (i.e. during sampling) the following advice may be appropriate. Keep good industrial hygiene. Always wash hands before smoking, eating and drinking. Do not eat, drink or smoke at the work place. Avoid all contact. Do not breathe vapour. Avoid exposure during pregnancy.

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

splashes.



Skin protection



Hand protection: Wear impervious gloves (recommended: EN374). Gloves should be changed regularly to avoid permeation problems. Breakthrough time of the glove material: refer to the information provided by the gloves' producer. Protective index 6, corresponding > 480 minutes of permeation time according to EN 374. Efficiency of at least 80%).

Use eye protection according to EN 166, designed to protect against liquid

Recommended: Nitrile rubber.

Body protection: Wear anti-static clothing and shoes. (Recommended: EN14605) Small scale: Wear suitable coveralls to prevent exposure to the skin. Large scale: Chemical protection suit

Respiratory protection



When the product is heated/In case of inadequate ventilation wear respiratory protection. The use of a high efficiency filter (EN143) is recommended. Filter type A1 $\,$

Closed system(s): Not normally required.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties	
Appearance	Clear, Straw, Black, Brown, Green, may be dyed red Liquid
Odour	Kerosene (strong)
Odour threshold	Not available.
pH	Not applicable.
Melting point/freezing point	-60.07 °F (-51.15 °C)
Initial boiling point and boiling range	199.9 - 900.1 °F (93.3 - 482.3 °C)
Flash point	> 100 °F (> 37.8 °C) Closed Cup
Evaporation rate	< 10.6
Flammability (solid, gas)	Not applicable - Liquid
Upper/lower flammability or explosive limits	Upper limit: 8%
	Lower limit: 0.40 %
Vapour pressure	< 1 mmHg (at 20 °C)
Vapour density	3 - 7 (Air=1)
Relative density	Not available.
Solubility(ies)	Not available.
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	494.96 °F (257.2 °C)
Decomposition temperature	Not available.
Viscosity	2 - 4.5 mm2/s
Other information	
Specific Gravity	0.82 - 0.93 (60 °F)

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SECTION 10: STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reactions

Conditions to avoid

Incompatible materials Hazardous decomposition products Stable under normal conditions. Reacts with - Strong oxidising agents Stable under normal conditions. Hazardous polymerisation will not occur. Flammable liquid and vapour. May form explosive mixture with air. Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback.

Elevated temperature. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from direct sunlight. Keep away from oxidising agents. Strong Acids and Alkalis.

A mixture of solid and liquid particulates and gases including unidentified organic and inorganic compounds. Decomposes in a fire giving off toxic fumes: COx, H2S, SOx,

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects	
Acute toxicity - Ingestion	Based upon the available data, the classification criteria are not met.
	Calculated acute toxicity estimate (ATE) >2,000 mg/kg.
Acute toxicity - Inhalation	Based upon the available data, the classification criteria are not met.
	Calculated acute toxicity estimate (ATE) > 5 mg/L (Vapour)
Acute toxicity - Skin contact	Based upon the available data, the classification criteria are not met.
	Calculated acute toxicity estimate (ATE) >2,000 mg/kg.
Skin corrosion/irritation	Skin Corrosion/Irritation, Category 2: Causes skin irritation.
	Irritating to skin. (rabbit) (OECD 404)
Serious eye damage/irritation	Based upon the available data, the classification criteria are not met.
Respiratory or skin sensitisation	Based upon the available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
	No evidence of mutagenic effects.
Carcinogenicity	Carcinogen, Category 2:
	EU Harmonised Classification
Reproductive toxicity	Reproductive toxicity, Category 2: Suspected of damaging fertility or the unborn
	child.
	According to EU CLP Classification (EC no. 1272/2008),
	VGO/Hydrocracked/Distillate fuels are classified for this endpoint.
STOT - single exposure	Based upon the available data, the classification criteria are not met.
STOT - repeated exposure	Specific target organ toxicity - repeated exposure, Category 2: May cause
	damage to organs: Thymus, Liver, Bone marrow. through prolonged or repeated
	exposure: Inhalation
	Inhalation: NOAEC > 1710 mg/m ³ (Systemic effects) (rat) (OECD 413)
Aspiration hazard	Aspiration hazard, Category 1: May be fatal if swallowed and enters airways.
	Kinematic viscosity: 2 – 9 mm ² /s @ 40 °C
Information on likely routes of exposure	Describle and destable and a second
Inhalation	Possible – accidental exposure
Ingestion	Possible – accidental exposure
Skin contact	Possible – accidental exposure
Eye contact	Unlikely – accidental exposure
Early onset symptoms related to exposure	May be fatal if swallowed and enters airways. Causes skin irritation. Causes
	serious eye irritation. May cause drowsiness or dizziness.
Delayed health effects from exposure	Suspected of causing cancer. Suspected of damaging fertility or the unborn
	child.
Exposure levels and health effects	See Section: 8
Interactive effects	None known
Other information	
OSHA Designated Carcinogen	Not listed
-	

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NIOSH Occupational Carcinogen List NTP Report on Carcinogens IARC Monographs Not listed Not listed Not listed

None known.

life with long lasting effects. NOEL (Fish) 0.083 mg/l (Estimated)

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Persistence and degradability

Bioaccumulative potential

Mobility in soil

Other adverse effects

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Dispose of this material and its container as hazardous waste. Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. Disposal should be in accordance with local, state or national legislation. Containers of this material may be hazardous when empty since they retain product residue.

Hazardous to the aquatic environment, Chronic, Category 2: Toxic to aquatic

Substance is complex UVCB. Standard tests for this endpoint are intended for

Substance is complex UVCB. Standard tests for this endpoint are intended for

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single substances and are not appropriate for this complex substance

single substances and are not appropriate for this complex substance

single substances and are not appropriate for this complex substance

SECTION 14: TRANSPORT INFORMATION

UN number UN proper shipping name

Transport hazard class(es) Packing group Environmental hazards

Special precautions for user Transport in bulk according to Annex II of Marpol and the IBC Code

SECTION 15: REGULATORY INFORMATION

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

US Federal Regulations TSCA Chemical Data Reporting (CDR) Rule Listed **NIOSH Occupational Carcinogen List** Not listed **EPCRA Section 313** Not listed CWA 307- Toxic Not listed **CERCLA - Hazardous Substances** Not listed CWA Section 311 List of Hazardous Substances Not listed **US State Regulations** Proposition 65 (California) Not listed Massachusetts, New Jersey, Pennsylvania, Rhode Not listed Island- State Right to Know Lists New York -State Right to Know Lists Not listed Minnesota - State Right to Know Lists Not listed Massachusetts - Toxic Use reduction act Not listed

Non-Regional

Road/rail (ADR/RID) UN1202 Diesel fuel (flash-point not more than 60°C) 3 III Environmentally hazardous substance See Section: 2 Not applicable

Sea transport (IMDG) UN1202 Diesel fuel (flash-point not more than 60°C) 3 III Classified as a Marine Pollutant.

Air (ICAO/IATA) UN1202 Diesel fuel (flash-po

Diesel fuel (flash-point not more than 60°C) 3 III Environmentally hazardous substance

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IARC Monographs

Not listed

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: Updated substance / mixture classification. Updated version and date. New format has been issued, all sections have been updated to include new information. Review SDS with care.

Version3.0Revision Date14 April 2021Date of First IssueNot available. 2ND ISSUE RELEASED JUNE, 15 2015

This Safety Data Sheet was prepared in accordance with US Regulation OSHA HCS (29 CFR 1910.1200)

References:

Existing Safety Data Sheet (SDS),

EU Harmonised Classification and Existing ECHA registration for Fuels, diesel, no. 2 (CAS No. 68476-34-6).

Classification of the substance or mixture in accordance with paragraph (d) of 29 CFR 1910.1200	Classification procedure
Flammable Liquid, Category 3	Flash point (°C)
Aspiration hazard, Category 1	High percentage inclusion of components with Aspiration hazard
Skin Corrosion/Irritation, Category 2	Summation Calculation
Carcinogen, Category 2	Threshold Calculation
Specific target organ toxicity — repeated exposure, Category 2	Threshold Calculation
Hazardous to the aquatic environment, Chronic, Category 2	Summation Calculation

Legend

ADR/RID	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road / RID: Regulations concerning the international railway transport of dangerous goods
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor (BCF)
CAS	CAS: Chemical Abstracts Service
EC	European Community
EN	European Standard
EU	European Union
IATA	International Air Transport Association
ICAO/IATA	ICAO: International Civil Aviation Organization / IATA: International Air Transport Association
IMDG	International Maritime Dangerous Goods
Koc	Soil Adsorption Coefficient
Kow	Partition coefficient: n-octanol/water
LC50	Lethal concentration 50
LD50	Lethal dose 50
LOAEL	Lowest dose adverse effect level
LTEL	Long Term Exposure Limit
NOAEC	No Observed Averse Effect concentration
NOAEL	No Observed Adverse Effect Level
OECD	Organisation for Economic Cooperation and Development
PBT	PBT: Persistent, Bioaccumulative and Toxic
PNEC	Predicted No Effect Concentration
(Q)SAR	Quantitative structure-activity relationship (QSAR)
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
STEL	Short Term Exposure Limit
TWA	Time Weighted Average
UN	United Nations
vPvB	very Persistent and very Bioaccumulative

Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

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