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ACCORDING TO OSHA HCS (29 CFR 1910.1200)



SECTION 1: IDENTIFICATION

Product identifier	
Product name	Transmix
Other means of identification	None
Relevant identified uses of the substance or mixture	
and uses advised against	
Identified Use(s)	Refinery feedstock.
Uses advised against	Anything other than the above.
Details of the supplier of the safety data sheet	
Supplier	Vitol Inc.
	2925 Richmond Ave. 11th Floor
	Houston TX 77098
Telenhone	(713) 230-1000
Fax	/13-230-1185
E-mail (competent person)	SDSHOU@vitol.com
Emergency telephone number	

SECTION 2: HAZARDS IDENTIFICATION

Emergency Phone No.

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

Physical hazards	Flammable Liquid, Category 1
Health hazards	Aspiration hazard, Category 1
	Skin Corrosion/Irritation, Category 2
	Eye Irritation, Category 2.
	Acute toxicity, Category 3 (Inhalation)
	Specific target organ toxicity — single exposure, Category 3 (Respiratory
	Irritation)
	Specific target organ toxicity — single exposure, Category 3 (Narcotic effects)
	Germ cell mutagenicity, Category 1B
	Carcinogen, Category 1
	Reproductive toxicity, Category 2
	Specific target organ toxicity — repeated exposure, Category 2
Environmental hazards	Hazardous to the aquatic environment, Acute, Category 1
	Hazardous to the aquatic environment, Chronic, Category 1

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

Label elements

Hazard Pictogram(s)



Signal Word(s)

DANGER

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Hazard Statement(s)	Extremely flammable liquid and vapour. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. Toxic if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. May cause genetic defects. May cause cancer.
	Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. Very 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. Product may release Hydrogen Sulphide: A specific assessment of inhalation risks from the presence of hydrogen sulphide 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.
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.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures Substances in preparations / mixtures	
Classification: OSHA HCS (29 CFR 1910.1200)	

Chemical identity of the substance	%W/W	CAS No.	EC No.	Hazard classification
Gasoline	0 - 100	86290-81-5	289-220-8	Flammable Liquid, Category 1 Aspiration hazard, Category 1 Skin Corrosion/Irritation, Category 2 Specific target organ toxicity — single exposure, Category 3 (Narcotic effects) Germ cell mutagenicity, Category 1B Carcinogen, Category 1B Reproductive toxicity, Category 2
				Hazardous to the aquatic environment, Chronic, Category 2
Fuels, diesel, no. 2	0 - 100	68476-34-6	270-676-1	Flammable Liquid, Category 3 Aspiration hazard, Category 1 Skin Corrosion/Irritation, Category 2 Acute toxicity, Category 4 (Inhalation) Carcinogen, Category 2

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				Specific target organ toxicity — repeated exposure, Category 2 (Bone marrow, Liver, Thymus) Hazardous to the aquatic environment, Chronic, Category 2
Toluene	0 - 30	108-88-3	203-625-9	Flammable Liquid, Category 2 Aspiration hazard, Category 1 Skin Corrosion/Irritation, Category 2 Specific target organ toxicity — single exposure, Category 3 (Narcotic effects) Reproductive toxicity, Category 2 Specific target organ toxicity — repeated exposure, Category 2 Hazardous to the aquatic environment, Chronic, Category 3
Hexane (Other Isomers)	5 - 25	96-14-0	202-481-4	Flammable Liquid, Category 2 Aspiration hazard, Category 1 Skin Corrosion/Irritation, Category 2 Specific target organ toxicity — single exposure, Category 3 (Narcotic effects) Hazardous to the aquatic environment, Chronic, Category 2
Xylene (o, m, p isomers)	0 - 25	1330-20-7	215-535-7	Flammable Liquid, Category 3 Aspiration hazard, Category 1 Acute toxicity, Category 4 (Dermal) Skin Corrosion/Irritation, Category 2 Eye Irritation, Category 2B Acute toxicity, Category 4 (Inhalation) Specific target organ toxicity — single exposure, Category 3 (Respiratory Irritation) Specific target organ toxicity — repeated exposure, Category 2 Hazardous to the aquatic environment, Acute, Category 2 Hazardous to the aquatic environment, Chronic, Category 3
Octane (All isomers)	0 - 18.5	111-65-9	203-892-1	Flammable Liquid, Category 2 Aspiration hazard, Category 1 Skin Corrosion/Irritation, Category 2 Specific target organ toxicity — single exposure, Category 3 (Narcotic effects) Hazardous to the aquatic environment, Acute, Category 1 Hazardous to the aquatic environment, Chronic, Category 1
Ethanol	0 - 10	64-17-5	200-578-6	Flammable Liquid, Category 2 Eve Irritation, Category 2B
1,2,4-trimethylbenzene	0 – 6	95-63-6	202-436-9	Flammable Liquid, Category 3 Aspiration hazard, Category 1 Skin Corrosion/Irritation, Category 2 Eye Irritation, Category 2B Acute toxicity, Category 4 (Inhalation) Specific target organ toxicity — single exposure, Category 3 (Respiratory irritation) Hazardous to the aquatic environment, Chronic, Category 2
n-Heptane	1 – 5	142-82-5	205-563-8	Flammable Liquid, Category 2 Aspiration hazard, Category 1 Skin Corrosion/Irritation, Category 2 Specific target organ toxicity — single exposure, Category 3 (Narcotic effects) Hazardous to the aquatic environment, Acute, Category 1 Hazardous to the aquatic environment, Chronic, Category 1
Pentane	1 – 5	109-66-0	203-692-4	Flammable Liquid, Category 2 Aspiration hazard, Category 1 Specific target organ toxicity — single exposure, Category 3 (Narcotic effects) Hazardous to the aquatic environment, Chronic, Category 2
Cumene	0-5	98-82-8	202-704-5	Flammable Liquid, Category 2 Aspiration hazard, Category 1 Specific target organ toxicity — single exposure, Category 3 (Narcotic effects)

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				Hazardous to the aquatic environment, Chronic, Category 2
				Flammable Liquid, Category 2 Aspiration bazard, Category 1
Ethvlbenzene	0 - 5	100-41-4	202-849-4	Acute toxicity. Category 4 (Inhalation)
- ,				Specific target organ toxicity — repeated exposure, Category 2
				(hearing organs)
				Flammable Liquid, Category 2
				Aspiration hazard, Category 1
				Skin Corrosion/Irritation, Category 2
Devenue	0.40	71 10 0	000 750 7	Eye Irritation, Category 2
Benzene	0 - 4.9	71-43-2	200-753-7	Germ cell mutagenicity, Category 1B
				Carcinogen, Category 1A
				Specific target organ toxicity — repeated exposure, Category 2
				Hazardous to the aquatic environment, Chronic, Category 3
				Flammable solid, Category 2
				Acute toxicity, Category 4 (Oral)
Naphthalene	1 - 3	91-20-3	202-049-5	Carcinogen, Category 2
				Hazardous to the aquatic environment, Acute, Category 1
				Hazardous to the aquatic environment, Chronic, Category 1
				Flammable Liquid, Category 2
				Aspiration hazard, Category 1
				Skin Corrosion/Irritation, Category 2
Nonane	1 - 3	111-84-2	203-913-4	Specific target organ toxicity — single exposure, Category 3
				(Narcotic effects)
				Hazardous to the aquatic environment, Acute, Category 1
				Hazardous to the aquatic environment, Chronic, Category 1
				Flammable Liquid, Category 2
				Aspiration hazard, Category 1
				Skin Corrosion/Irritation, Category 2
n-hexane	0 - 3	110-54-3	203-777-6	Specific target organ toxicity — single exposure, Category 3
				(Narcotic effects)
				Reproductive toxicity, Category 2
				Specific target organ toxicity — repeated exposure, Category 2
				Hazardous to the aquatic environment, Chronic, Category 2
				Flammable Liquid, Category 2
				Aspiration hazard, Category 1
				Skin Corrosion/Irritation, Category 2
Cyclohexane	0 - 3	110-82-7	203-806-2	Specific target organ toxicity — single exposure, Category 3
				(Narcourd effects)
				Specific larger organ loxicity — repeated exposure, Category 2
				Hazardous to the aquatic environment, Acute, Category I
				Hazardous to the aquatic environment, Chronic, Category 1

SECTION 4: FIRST AID MEASURES



Description of first aid measures Self-protection of the first aider

Avoid all contact. Do not breathe vapour. 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. Do not use mouth-to-mouth resuscitation. No action should be taken involving personal risk. Wear appropriate personal protective equipment, avoid direct contact. Avoid exposure during pregnancy. Do not ingest. If swallowed then seek immediate medical assistance.

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

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	clothing such as a collar, tie, belt or waistband. Apply artificial respiration only if
	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 persists, get medical attention.
Eye contact	IF IN EYES: Hold eyelids apart and flush eyes with plenty of water for at least 15
	minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get
Incostion	The swall owner in the second persists, get medical attention.
ingestion	recovery position and get medical attention immediately. Wash out mouth with
	water and give small quantities of water to drink. Do not give anything by mouth
	to an unconscious person. Get medical attention immediately. Maintain an open
	airway. Loosen tight clothing such as a collar, tie, belt or waistband. Do not wait
Maat important compteme and offects both couts	for symptoms to appear.
and delayed	serious eve irritation. Toxic if inhaled. May cause respiratory irritation. May cause
	drowsiness or dizziness. May cause genetic defects. May cause cancer.
	Suspected of damaging fertility or the unborn child.
Indication of any immediate medical attention and special treatment needed	Treat symptomatically.
Notes to a physician:	IF IN EYES: Treatment by an ophthalmologist due to possible caustic burn of the eyes may be required.
	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 lunge. If aspiration is supported obtain immediate medical attention. If vertices are appreciated obtain immediate medical attention.
	occurs spontaneously, keep head below hips to prevent aspiration into the lungs.

SECTION 5: FIREFIGHTING MEASURES

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.

Extremely flammable liquid and vapour. Will float and can be reignited on surface water. 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.

Advice for firefighters

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.

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. Do not breathe vapour. Ensure adequate ventilation. 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. Avoid exposure during pregnancy.

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

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ventilation. Wear flame-resistant antistatic protective clothing. Wear chemical protection suit and breathing apparatus.

SECTION 7: HANDLING AND STORAGE	
Precautions for safe handling	Obtain special instructions before use. Keep away from sources of ignition - No smoking. Use only outdoors or in a well-ventilated area. Prevent vapour build up by providing adequate ventilation during and after use. May form explosive mixtures with air. Take action to prevent static discharges. Use non-sparking tools. All parts of the plant and equipment should be electrically bonded together and connected to earth. Electrical continuity should be checked at regular intervals. Antistatic clothing and footwear should be used. The vapour is heavier than air; beware of pits and confined spaces. Avoid all contact with substance. Do not ingest. If swallowed then seek immediate medical assistance. Do not breathe vapour. See Section: 8. Keep good industrial hygiene. Wash hands thoroughly after handling. Contaminated clothing should be thoroughly cleaned.
Conditions for safe storage, including any incompatibilities	Light hydrocarbon vapours can build up in the headspace of containers. These can cause flammability / explosion hazards. Bund storage facilities to prevent soil and water pollution in the event of spillage. Keep only in original packaging. Keep containers properly sealed when not in use. Protect from sunlight. Containers of this material may be hazardous when empty since they retain product residue. Empty container may contain product residue which may result in flammable or explosive vapours inside the container.
Storage temperature	Stable at ambient temperatures.
Incompatible materials	Keep away from oxidising agents. Strong Acids and Alkalis.

SECTION 8: Exposure controls/personal protection

Occupational exposure limits

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SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m ³)	Note
		100	375	150	560	NIOSH
Toluene	108-88-3	-	-	300	-	OSHA
		20	-	-	-	ACGIH, A4
Hexane (Other	06 14 0	100	350	510^	1800	NIOSH
Isomers)	90-14-0	500	-	1000	-	ACGIH
		100	435	150*	655	NIOSH
Xylene	1330-20-7	100	435	-	-	OSHA
		100	-	150	-	ACGIH, A4
		75	350	385*	1800*	NIOSH
Octane	111-65-9	500	2350	-	-	OSHA
		300	-	-	-	ACGIH
		1000	1900	-	-	NIOSH
Ethanol	64-17-5	1000	1900	-	-	OSHA
		-	-	1000	-	ACGIH
		85	350	440*	1800*	NIOSH
n-Heptane	142-82-5	5000	2000	-	-	OSHA
		400		500		ACGIH
Pentane	109-66-0	1000	-	-	-	ACGIH
	98-82-8	50	245	-	-	NIOSH
Cumene		50	245	-	-	OSHA
		50		-	-	ACGIH
	100-41-4	100	435	125*	545*	NIOSH
Ethylbenzene		100	435	-	-	OSHA
		20	-	-	-	ACGIH
		0.1	0.32	1^	3.2	NIOSH
Benzene	71-43-2	1	-	5	-	OSHA
		0.5	-	2.5	-	ACGIH, A1
		50	180	-	-	NIOSH
N-hexane	110-54-3	50	1800	-	-	OSHA
		50	-	-	-	ACGIH, Sk
		300	1050	-	-	NIOSH
Cyclohexane	110-82-7	300	1050	-	-	OSHA
		100	-	-	-	ACGIH
		10	50	15^	75^	NIOSH
Naphthalene	91-20-3	10	50			OSHA
		10	-	-	-	ACGIH, SK, A3
Nonane	111_0/ 0	200	1050	-	-	NIOSH
INUTIALIE	111-04-2	200	-	-	-	ACGIH

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

^Ceiling limit value (15 min)

*NIOSH 15 minute average values

(1) Ceiling limit value (10 min)

Sk - Can be absorbed through skin.

A1: Confirmed Human Carcinogen: The agent is carcinogenic to humans based on the weight of evidence from epidemiological studies

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.

A4: Not Classifiable as a Human Carcinogen: Agents which cause concern that they could be carcinogenic for humans but which cannot be assessed conclusively because of the lack of data. In vitro or animal studies do not provide indications of carcinogenicity which are sufficient to classify the agent into one of the other categories.

The other components listed in Section 3 do not have occupational exposure limits.

Biological exposure indicies

SUBSTANCE	CAS No.	Determinant	Biological Exposure Indices	Sampling Time	Note
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		Toluene in blood	0.02 mg/l	Prior to last shift of workweek	-
Toluene	108-88-3	Toluene in urine	0.03 mg/l	End of shift	-
		o-Cresol in urine with hydrolosis	0.3 mg/g creatinine	End of shift	В
Xylene, o-,m-,p- or mixed isomers	1330-20-7	Methylhippuric acids in urine.	1.5 g/g Creatinine	End of shift	-
Ethylbenzene	100-41-4	Sum of mandelic acid and phenylglyoxylic acid in urine	0.15 g/g Creatinine	End of shift	Ns
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:

B: Background

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- 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.
ctive clothing should be selected specifically for the workin	a place, depending on concentration and quantity of the hazardous substances

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.

Eye/ face protection



Skin protection



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

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%).

Body protection: Wear anti-static clothing and shoes. 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 (recommended: 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 Odour Odour threshold pH Melting point/freezing point Initial boiling point and boiling range Flash point

Light straw to red clear liquid. Strong Hydrocarbon Not available Not available 80.06 - 440.06 °F (26.7 - 226.7 °C) -40.0 °F (-40.0 °C) (closed cup)

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Evaporation rate Flammability (solid, gas) Upper/lower flammability or explosive limits

Vapour pressure Vapour density Relative density Solubility(ies) Partition coefficient: n-octanol/water Auto-ignition temperature Decomposition temperature Viscosity Not available Not applicable - Liquid Upper limit: 7.1 % Lower limit: 1.3 % 60.8 - 101.3 kPa (20°C) 3 - 4 (Air=1) Not available Very slightly soluble. Not available Not available Not available Not available Not available Not available

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. Product may release Hydrogen Sulphide.

Extremely 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,

Mixture: Based upon the available data, the classification criteria are not met.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects Acute toxicity - Ingestion

Acute toxicity - Inhalation	Calculated acute toxicity estimate (ATE) >2,000 mg/kg. Mixture: Acute toxicity, Category 3 (Inhalation): Toxic if inhaled.
	Acute Toxicity Estimate Mixture Calculation: LC50 < 2,0 ≤ 10,0 (Vapour)
Fuels, diesel, no. 2	Acute toxicity, Category 4 (Inhalation): Harmful if inhaled.
	LC50 (inhalation,rat) mg/l/4h: 4.1 (OECD 403)
Xylene (o, m, p isomers)	Acute toxicity, Category 4 (Inhalation): Harmful if inhaled.
	EU Harmonised Classification
1,2,4-trimethylbenzene	Acute toxicity, Category 4 (Inhalation): Harmful if inhaled.
	EU Harmonised Classification
Ethylbenzene	Acute toxicity, Category 4 (Inhalation): Harmful if inhaled.
	EU Harmonised Classification
Acute toxicity - Skin contact	Mixture: Based upon the available data, the classification criteria are not met.
	Calculated acute toxicity estimate (ATE) >2,000 mg/kg.
Skin corrosion/irritation	Mixture: Skin Corrosion/Irritation, Category 2: Causes skin irritation.
Gasoline	Skin Corrosion/Irritation, Category 2: Causes skin irritation.
	Irritating to skin. (rabbit) (OECD 404)
Fuels, diesel, no. 2	Skin Corrosion/Irritation, Category 2: Causes skin irritation.
T .	Irritating to skin. (rabbit) (OECD 404)
Ioluene	Skin Corrosion/Irritation, Category 2: Causes skin irritation.
Lievens (Other learners)	Irritating to skin. (rabbit) (EU Method B.4)
Hexane (Other Isomers)	Skin Corrosion/Irritation, Category 2: Causes skin Irritation.
Vulena (a. m. n. inamara)	Skin Correction (Human) (Onnamed publication, 1999)
Ayiene (0, m, p isomers)	Skin Conosion/Initiation, Category 2. Causes skin Initiation.
	EO Harmonised Glassification Bead across (chevron paraxylene) Slightly irritating to skin (rat) (EU Method
	B 4) (Chatterine 2005)
	D.+) (Onalicijee, 2000)
Octane (All isomers)	Skin Corrosion/Irritation, Category 2: Causes skin irritation.
Octane (All isomers)	Skin Corrosion/Irritation, Category 2: Causes skin irritation. Irritating to skin. (rabbit) (OECD 404)

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	n-Heptane	Irritating to skin. (rabbit) (EU Method B.4) Skin Corrosion/Irritation, Category 2: Causes skin irritation. EU Harmonised Classification
	Benzene	Skin Corrosion/Irritation, Category 2: Causes skin irritation.
	N-hexane	Skin Corrosion/Irritation, Category 2: Causes skin irritation. EU Harmonised Classification
	Cyclohexane	Irritating to skin. (rabbit) (OECD 404) Skin Corrosion/Irritation, Category 2: Causes skin irritation. EU Harmonised Classification
	Nonane	Skin Corrosion/Irritation, Category 2: Causes skin irritation.
Serious eye damage/irritation	Xylene (o, m, p isomers)	Mixture: Eye Irritation, Category 2: Causes serious eye irritation. Irritation, Category 2: Causes serious eye irritation. Eye Damage/Irritation - Category 2
	Ethanol	Irritation, Category 2A: Causes serious eye irritation. EU Harmonised Classification.
	1,2,4-trimethylbenzene	Irritating to eyes. (rabbit) (OECD 405) Irritation, Category 2: Causes serious eye irritation. EU Harmonised Classification
	Benzene	Irritation, Category 2: Causes serious eye irritation. EU Harmonised Classification.
Respiratory or skin sensitisati Germ cell mutagenicity	n	Mixture: Based upon the available data, the classification criteria are not met. Mixture: Germ cell mutagenicity, Category 1B: May cause genetic defects.
	Gasoline	EU Harmonised Classification. ECHA Registration Endpoint summary: According to EU CLP Classification (EC
		no. 1272/2008), there is a regulatory requirement to classify gasoline and naphtha streams as hazardous for this endpoint when they contain >0.1% benzene
	Benzene	Germ cell mutagenicity, Category 1B: May cause genetic defects. In vitro: negative (Zeiger E and Haworth S., 1985) In vivo: positive (OECD 474)
Carcinogenicity	Gasoline	Mixture: Carcinogen, Category 1: May cause cancer. Carcinogen, Category 1B: May cause cancer.
		EU Harmonised Classification. ECHA Registration Endpoint summary: According to EU CLP Classification (EC no. 1272/2008), there is a regulatory requirement to classify gasoline and naphtha streams as hazardous for this endpoint when they contain >0.1% benzene
	Fuels, diesel, no. 2	Carcinogen, Category 2: Suspected of causing cancer.
	Benzene	Carcinogen, Category 1A: May cause cancer.
	Naphthalene	Carcinogen, Category 2: Suspected of causing cancer. EU Harmonised Classification
Reproductive toxicity		LOAEC: 50 mg/m ³ (rat) (Unnamed publication, 2000) Mixture: Reproductive toxicity, Category 2: Suspected of damaging fertility or the unborn child.
	Gasoline	Reproductive toxicity, Category 2: Suspected of damaging fertility or the unborn child. EU Harmonised Classification. ECHA Registration Endpoint summary: According to EU CLP Classification (EC no. 1272/2008), there is a regulatory requirement to classify gasoline and naphtha streams as hazardous for this endpoint when they contain >0.1%
	Toluene	benzene. Reproductive toxicity, Category 2: Suspected of damaging fertility or the unborn child. Reproductive toxicity: NOAEC (rat) (inhalation exposure) mg/m ³ : 2261. (Ono, 1996)
	Gasoline Toluene	unborn child. Reproductive toxicity, Category 2: Suspected of damaging fertility or the unborn child. EU Harmonised Classification. ECHA Registration Endpoint summary: According to EU CLP Classification (EC no. 1272/2008), there is a regulatory requirement to classify gasoline and naphtha streams as hazardous for this endpoint when they contain >0.1% benzene. Reproductive toxicity, Category 2: Suspected of damaging fertility or the unborn child. Reproductive toxicity: NOAEC (rat) (inhalation exposure) mg/m ³ : 2261. (Ono, 1996)

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STOT - single exposure	N-hexane Gasoline Toluene Hexane (Other Isomers)	Developmental toxicity: NOAEC (rat) (inhalation exposure) mg/m ³ : 4522. (Thiel, 1997) Reproductive toxicity, Category 2: Suspected of damaging fertility. Reproductive toxicity: No adverse effect observed (rat) (OECD 416) Developmental toxicity: Maternal toxicity – NOAEC: 900 ppm (OECD 414) Mixture: Specific target organ toxicity — single exposure, Category 3 (Respiratory Irritation): May cause respiratory irritation. Specific target organ toxicity — single exposure, Category 3 (Narcotic effects): May cause drowsiness or dizziness. Specific target organ toxicity — single exposure, Category 3 (Narcotic effects): May cause drowsiness or dizziness. Weight of evidence approach Specific target organ toxicity — single exposure, Category 3 (Narcotic effects): May cause drowsiness or dizziness. Causes dizziness. (Human volunteers) (SCOEL, 2001) Specific target organ toxicity — single exposure, Category 3 (Narcotic effects): May cause drowsiness or dizziness.
	Xylene (o, m, p isomers)	EU Harmonised Classification. Specific target organ toxicity — single exposure, Category 3 (Respiratory Irritation): May cause respiratory irritation. ECHA Registration Endpoint summary: Irritating to eyes, respiratory system and
STOT - repeated exposure	Fuels, diesel, no. 2	skin Mixture: Specific target organ toxicity — repeated exposure, Category 2: May cause damage to organs through prolonged or repeated exposure. Specific target organ toxicity — repeated exposure, Category 2: May cause damage to organs through prolonged or repeated exposure.
	Toluene	Specific target organ toxicity — repeated exposure, Category 2: May cause damage to organs through prolonged or repeated exposure. Oral: Adverse effects observed - NOAEL (rat) mg/kg bw/day 625 (EU Method B.26)
	Xylene (o, m, p isomers)	Dermal: No data Specific target organ toxicity — repeated exposure, Category 2: May cause damage to organs through prolonged or repeated exposure. Oral: Adverse effects observed – NOAEL (rat) 250 mg/kg bw/day Inhalation: Adverse effects observed – NOAEL (rat) 3515 mg/m ³
	Ethylbenzene	Dermal: Not classified – No data Specific target organ toxicity — repeated exposure, Category 2: May cause damage to organs through prolonged or repeated exposure. EU Harmonised Classification Oral: NOAEL: 75 mg/kg bw/day (OECD 407) (rat)
	Benzene	Inhalation: NOAEC: 500 mg/m ³ (OECD 453) (rat) Dermal: No data Specific target organ toxicity — repeated exposure, Category 2: May cause damage to organs through prolonged or repeated exposure. Oral: Chronic - LOAEL: 25 mg/kg/dw/day (rat)
	N-hexane	Innalation: Chronic - NOAEC: 11.2mg/m ³ Dermal: No data Specific target organ toxicity — repeated exposure, Category 2: May cause damage to organs through prolonged or repeated exposure. Oral: NOAEL: 568 mg/kg bw/day (rat) Inhalation: LOAEC: 1760 mg/m ³
	Cyclohexane	Dermal: LOAEC: 1760 mg/m ³ (Mouse) Specific target organ toxicity — repeated exposure, Category 2: May cause damage to organs through prolonged or repeated exposure. Oral: No data Inhalation: NOAEC: 2000ppm (Unnamed publication, 2000)
Aspiration hazard	Gasoline	Dermal: No data Mixture: Aspiration hazard, Category 1: May be fatal if swallowed and enters airways. Aspiration hazard, Category 1: May be fatal if swallowed and enters airways.

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	EU Harmonised Classification.
	Viscosity: 1 mm ² /s @ 20 °C
Fuels, diesel, no. 2	Aspiration hazard, Category 1: May be fatal if swallowed and enters airways.
	Kinematic viscosity: 2 – 9 mm²/s @ 40 °C
Toluene	Aspiration hazard, Category 1: May be fatal if swallowed and enters airways.
	EU Harmonised Classification.
	Dynamic viscosity: 0.56 mPa s (@25°C)
	Surface tension: 27.93nM (@25°C)
Hexane (Other Isomers)	Aspiration hazard, Category 1: May be fatal if swallowed and enters airways.
	EU Harmonised Classification.
Xvlene (o. m. p isomers)	Aspiration hazard. Category 1: May be fatal if swallowed and enters airways.
y (-), (-)	Hydrocarbon
Octane (All isomers)	Aspiration hazard. Category 1: May be fatal if swallowed and enters airways.
	EU Harmonised Classification.
	Dynamic viscosity: $0.801 \text{ mm}^2/\text{s}$ (@25°C)
	Surface tension: 21 14 mN/m ($@25^{\circ}$ C)
Information on likely routes of exposure	
Inhalation	Possible – accidental exposure
Indestion	Possible – accidental exposure
Skin contact	Possible – accidental exposure
Eve contact	I Inlikely – accidental exposure
Lye contact	
Early onset symptoms related to exposure	May be fatal if swallowed and enters airways. Causes skin irritation. Causes
, , , p	serious eve irritation. Toxic if inhaled. May cause respiratory irritation. May
	cause drowsiness or dizziness.
Delayed health effects from exposure	May cause genetic defects. May cause 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	Benzene: Listed
NICCI I Convertional Covering and List	Benzene: Listed
NIOSH Occupational Carcinogen List	Gasoline: Listed
NTD Depart on Consistence	Benzene: Listed
NTP Report on Carcinogens	Naphthalene: Listed
	Gasoline: Listed
	Petroleum: Listed
	Benzene: Listed
422014	Naphthalene: Listed
IARC Monographs	Xylene: Listed
	Ethylbenzene: Listed
	Toluene: Listed
	Ethanol: Listed
	· · · · · · · · · · · · · · · · · · ·

SECTION 12: ECOLOGICAL INFORMATION

Toxicity Gasoline Fuels, diesel, no. 2	Mixture: Hazardous to the aquatic environment, Acute, Category 1: Very toxic to aquatic life with long lasting effects. Hazardous to the aquatic environment, Chronic, Category 1: Very toxic to aquatic life with long lasting effects. Hazardous to the aquatic environment, Chronic, Category 2: Toxic to aquatic life with long lasting effects. The aquatic toxicity was estimated using the PETROTOX computer model. NOEL (Fish) 0.083 mg/l (Estimated) Hazardous to the aquatic environment, Chronic, Category 2: Toxic to aquatic life
	with long lasting effects.
rueis, diesei, no. 2	with long lasting effects.

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Toluene	EC50: 4.321 mg/l (EPA, 2012) Hazardous to the aquatic environment, Chronic, Category 3: Harmful to aquatic life with long lasting effects.
Hexane (Other Isomers)	Hazardous to the aquatic environment, Chronic, Category 2: Toxic to aquatic life with long lasting effects.
Xylene (o, m, p isomers)	LC50: 3.649 mg/L (EPA 2012) Hazardous to the aquatic environment, Chronic, Category 3: Harmful to aquatic life with long lasting effects.
Octane (All isomers)	EU Harmonised Classification Short term: Not classified – LC50 (fish) mg/l 2.6 OECD 203 Long Term: NOEC (Fish) mg/l >1.3 (Walsh et al, 1977) Hazardous to the aquatic environment, Acute, Category 1: Very toxic to aquatic life with long lasting effects. EU Harmonised Classification LL50: 2.587 mg/l (CONCAWE, 2010)
1,2,4-trimethylbenzene	Hazardous to the aquatic environment, Chronic, Category 1: Very toxic to aquatic life with long lasting effects. EU Harmonised Classification NOELR: 0.579 mg/L (CONCAWE, 2010) Hazardous to the aquatic environment, Chronic, Category 2: Toxic to aquatic life with long lasting effects. EU Harmonised Classification
n-Heptane	Hazardous to the aquatic environment, Acute, Category 1: Very toxic to aquatic life with long lasting effects.
	EU Harmonised Classification LL50: 2.738 mg/L (CONCAWE, 2010) Hazardous to the aquatic environment, Chronic, Category 1: Very toxic to aquatic life with long lasting effects. EU Harmonised Classification
Pentane	Hazardous to the aquatic environment, Chronic, Category 2: Toxic to aquatic life with long lasting effects. EU Harmonised Classification
Cumene	Hazardous to the aquatic environment, Chronic, Category 2: Toxic to aquatic life with long lasting effects. EU Harmonised Classification
Benzene	Hazardous to the aquatic environment, Chronic, Category 3: Harmful to aquatic life with long lasting effects.
N-hexane	Hazardous to the aquatic environment, Chronic, Category 2: Toxic to aquatic life with long lasting effects.
Cyclohexane	Hazardous to the aquatic environment, Acute, Category 1: Very toxic to aquatic life with long lasting effects. EU Harmonised Classification
Naphthalene	Hazardous to the aquatic environment, Chronic, Category 1: Very toxic to aquatic life with long lasting effects. EU Harmonised Classification EL10: 0.447 mg/L (McGrath et al 2015) Hazardous to the aquatic environment, Acute, Category 1: Very toxic to aquatic life with long lasting effects. EU Harmonised Classification LC50: 1.6 mg/L (OECD 203) Hazardous to the aquatic environment, Chronic, Category 1: Very toxic to aquatic life with long lasting effects. EU Harmonised Classification LC50: 1.6 mg/L (OECD 203) Hazardous to the aquatic environment, Chronic, Category 1: Very toxic to aquatic life with long lasting effects. EU Harmonised Classification

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		LC50: 2.1 mg/L (Moles et al. 1981)
	Nonane	Hazardous to the aquatic environment, Acute, Category 1: Very toxic to aquatic
		life with long lasting effects.
		Hazardous to the aquatic environment, Chronic, Category 1: Very toxic to
		aquatic life with long lasting effects.
		No data
Persistence and degradability		No data for the mixture as a whole.
	Gasoline	Readily biodegradable. (OECD 301F)
		90.35% Degradation in Water (28 days)
	Fuels, diesel, no. 2	Substance is complex UVCB. Standard tests for this endpoint are intended for
		single substances and are not appropriate for this complex substance
	Toluene	Readily biodegradable.
		69% Degradation in Water (5 days) (Bridie et al. 1979)
	Hexane (Other Isomers)	Readily biodegradable.
		~93-94% Degradation in Water (OECD 301 C)
	Xylene (o, m, p isomers)	Readily biodegradable.
		98% Degradation in Water (28 Days) (OECD 301 F)
	Ethanol	Readily biodegradable.
		82.7% Degradation in Water (5 Days) (Wagner, R, 1976)
	Octane (All isomers)	Readily biodegradable.
		70% Degradation in Water (10 days) (Hains et al. 1974)
	1,2,4-trimethylbenzene	Readily biodegradable.
		Weight of evidence approach
		>60% Degradation in Water (28 Days) (OECD 301 F)
	n-Heptane	Readily biodegradable.
		70% Degradation in Water (10 days) (Hains et al. 1974)
	Pentane	Readily biodegradable.
		87% Degradation in Water (28 Days) (OECD 301 F)
	Cumene	Readily biodegradable.
		70% Degradation in Water (20 Days) (Price KS et al. 1974)
	Ethylbenzene	Readily biodegradable.
	_	70-80% Degradation in Water (28 Days) (Unnamed publication, 2003)
	Benzene	Readily biodegradable.
		81% Degradation in Water (5 days) (OECD 301F)
	N-hexane	Readily biodegradable.
	Qualation	95% Degradation in water (14 days) (DECD 301F)
	Cyclonexane	Readily blodegradable.
	Nashthalasa	77% Degradation in Water (28 Days) (OECD 301F)
	Napritraierie	Readily blodegradable.
	Nonono	>74% Degradation in water (26 Days) (DECD 301 C)
Bioaccumulative potential	NUIIdHe	No data for the mixture as a whole
Divaccumulative potential	Gasolina	The substance has low potential for bioaccumulation
	Clasonine	BCE: 7 ((0)SAB)
	Fuels diesel no 2	Substance is complex LIVCB. Standard tests for this endpoint are intended for
		single substances and are not appropriate for this complex substance
	Toluene	The substance has low potential for bioaccumulation.
		BCF: 90 (Freitag D et al. 1985)
	Hexane (Other Isomers)	No data
	Xylene (o, m, p isomers)	Not anticipated to bioaccumulate
	, , , ,	BCF: 25.9 (Walsh et al. 1977)
	Ethanol	Not anticipated to bioaccumulate
		BCF: <10 (Freitag, D. et al. 1985)
	Octane (All isomers)	Not anticipated to bioaccumulate
	. ,	BCF: 199 L/kg (Donkin, P. et al. 1989)
	1,2,4-trimethylbenzene	Not anticipated to bioaccumulate
		BCF: 243 (Veith GD and Broderius SJ. 1987)
	n-Heptane	Will bioaccumulate.
		BCF: 552 L/Kg (Unnamed publication, 2009)
	Pentane	Not anticipated to bioaccumulate
		BCF: 171 L/kg (Veith GD and Broderius SJ. 1987)
	Cumene	Not anticipated to bioaccumulate

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	BCF: 94.69 L/kg (Unnamed publication, 2010)
Ethylbenzene	Not anticipated to bioaccumulate
	BCF: 110 L/kg (Roubal, 1978)
Benzene	Not anticipated to bioaccumulate
	BCF: < 10 (OECD 305)
N-hexan	Will bioaccumulate.
	BCE: 501 187 L/Kg ((Q)SAB) (Veith GD and Broderius SJ 1987)
Cyclohexan	Not anticipated to bioaccumulate
Cyclonexan	BCF < 67 L/kg (Veith et al. 1979)
Nanhthalen	Not anticipated to bioaccumulate
Nuphthalon	BCE: 168 (OECD 305)
Nonan	No data
Mobility in soil	No data for the mixture as a whole
Gasoling Gasoling	The substance is predicted to have low mobility in soil
Gasonia	Immissible with water
Fuele diesel no f	Infinisciple with water.
Fueis, diesei, no. 2	single substances and are not enprendiate for this complex substances
Taluar	The substances and are not appropriate for this complex substance
loiuene	View POS (European Chamicala Ruman) (2000)
Hereine (Othersteiner	Koc: 205 (European Chemicais Bureau, 2003)
Hexane (Other Isomers) No data) The substance has made and matching a fille
Xylene (o, m, p isomers) The substance has moderate mobility in soil.
Ethore	LogRoc: 2.73 (Hodson & Williams, 1988)
Ethanc	I në substance nas nign mobility in soli.
Osteres (All issues	LogKoc: 0.2 (Schuurmann G et al. 2006)
Octane (All isomers) The substance has moderate mobility in soil.
	LogKoc: 2.64 (Unnamed publication, 2010)
I,2,4-trimetnyibenzene	I ne substance is predicted to have moderate mobility in soil.
	Log Koc: 3.04 (Sabijic A and Gusten H. 1995)
n-Heptane	I he substance is predicted to have moderate mobility in soil.
Dester	Log Koc: 3.12 (Unnamed publication, 2010)
Pentane	a The substance is predicted to have moderate mobility in soil.
0	Log Koc. 2.9 (Sabijic A and Gusten H. 1995)
Cumene	a The substance is predicted to have moderate mobility in soil.
Ethulhanzan	LOY NOC. 2.340 (Jeng, C. Y. et al. 1992)
Elliyiberizen	
Denten	Log Roc. 5. 12 (USEFA, 2006)
Derizerie	
N boyon	NUC. 134 L / NY.
N-Hexalit	Log Kos: 2.24 (Sobling A and Güsten H. 1995)
Cycloboyon	Lug Nuc. 0.04 (Gabijic A and Gusteri H. 1990) The substance is predicted to have moderate mobility in soil
Cyclonexane	Log Koc: 2.00 (Sablic A and Güeten H. 1005)
Nonbthalan	Log Noc. 2.33 (Sabijic A and Gusleri H. 1333)
Naphinalen	n ne substance has high mobility in soil. (Linundrul, 1994) No data
Other adverse effects	None known
Toluon	This chemical is known to leach through soil into ground water under cortain
Tolden	conditions
	Conditions.

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.

SECTION 14: TRANSPORT INFORMATION

UN number

Road/rail (ADR/RID) UN1268 Sea transport (IMDG) UN1268 Air (ICAO/IATA) UN1268

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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

TSCA Inventory Status: All chemicals in this product comply with TSCA rules NIOSH Occupational Carcinogen List Benzene: Listed Gasoline: Listed Benzene: Listed PCRA Section 313 Benzene: Listed (De Minimis limit: 1%) EPCRA Section 313 Note that the minist limit: 1%) EPCRA Section 313 Note that the minist limit: 1%) EPCRA Section 313 Naphtalene: Listed (De Minimis limit: 1%) CWA 307- Toxic Naphtalene: Listed (De Minimis limit: 1%) CWA 307- Toxic Naphtalene: Listed (De Minimis limit: 1%) CERCLA - Hazardous Substances Sulfide: Listed (RQ = 100 lbs) Naphtalene: Listed (RQ = 10 lbs) Naphtalene: Listed (RQ = 100 lbs) Benzene: Listed (RQ = 100 lbs) Naphtalene: Listed (RQ = 100 lbs) Benzene: Listed (RQ = 100 lbs) Naphtalene: Listed (RQ = 100 lbs) State: State (RQ = 10 lbs) Naphtalene: Listed (RQ = 100 lbs) Versene: Listed (RQ = 10 lbs) Naphtalene: Listed (RQ = 100 lbs) State: State (RQ = 10 lbs) Naphtalene: Listed (RQ = 100 lbs) Versene: Listed (RQ = 100 lbs) Naphtalene: Listed (RQ = 100 lbs) Toluene: Listed (RQ = 100 lbs) Naphtalene: Listed (RQ = 100 lbs) Versene: Listed (RQ = 100 lbs) Naphtalene: Listed (RQ = 100 lbs)	US Federal Regulations	
NIOSH Occupational Carcinogen List Benzene: Listed Hydrogen Sulfide: Listed (De Minimis limit: 1%) Benzene: Listed (De Minimis limit: 1%) EPCRA Section 313 N-hexane: Listed (De Minimis limit: 1%) EPCRA Section 313 Xylene: Listed (De Minimis limit: 1%) EPCRA Section 313 Xylene: Listed (De Minimis limit: 1%) EPCRA Section 313 Xylene: Listed (De Minimis limit: 1%) Ethylberzene: Listed (De Minimis limit: 1%) Toluene: Listed (De Minimis limit: 1%) CWA 307- Toxic Renzene: Listed (De Minimis limit: 1%) CERCLA - Hazardous Substances Naphtalene: Listed (RQ = 100 lbs) Benzene: Listed (RQ = 100 lbs) Benzene: Listed (RQ = 100 lbs) CERCLA - Hazardous Substances Naphtalene: Listed (RQ = 100 lbs) CERCLA - Hazardous Substances Naphtalene: Listed (RQ = 100 lbs) CERCLA - Hazardous Substances Naphtalene: Listed (RQ = 100 lbs) CERCLA - Hazardous Substances Ylene: Listed (RQ = 100 lbs) CERCLA - Hazardous Substances Naphtalene: Listed (RQ = 100 lbs) Vergens: Listed (RQ = 100 lbs) Nexane: Listed (RQ = 100 lbs) Toluene: Listed Naphtalene: Listed CWA Section 311 List of Hazardous Substances Ethylbenzene: Listed Vergens Sulfide: Listed	TSCA Chemical Data Reporting (CDR) Rule	TSCA Inventory Status: All chemicals in this product comply with TSCA rules and regulations including TSCA Section 5 (Inventory Rules).
Casoline: Listed Gasoline: Listed Berzene: Listed (De Minimis limit: 1%) Berzene: Listed (De Minimis limit: 1%) EPCRA Section 313 Naphthalene: Listed (De Minimis limit: 1%) Cumene: Listed (De Minimis limit: 1%) Naphthalene: Listed (De Minimis limit: 1%) EPCRA Section 313 Xylene: Listed (De Minimis limit: 1%) EPCRA Section 313 Xylene: Listed (De Minimis limit: 1%) Ethylbenzene: Listed (De Minimis limit: 1%) Naphthalene: Listed CWA 307- Toxic Naphthalene: Listed CERCLA - Hazardous Substances Cumene: Listed (RQ = 100 lbs) Derzene: Listed (RQ = 5,000 lbs) Naphthalene: Listed (RQ = 100 lbs) CerrecLA - Hazardous Substances Cumene: Listed (RQ = 100 lbs) CWA Section 311 List of Hazardous Substances Ethylbenzene: Listed Vylene: Listed Reserven: Listed CWA Section 311 List of Hazardous Substances Ethylbenzene: Listed Vylene: Listed Naphthalene: Listed Naphthalene: Listed Naphthalene: Listed Vydrogen Sulfide: Listed Naphthalene: Listed	NIOSH Occupational Carcinogen List	Benzene: Listed
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		Sulfur: Listed

PETROLEUM DISTILLATES, N.O.S. DISTILLATES, N.O.S. 3 Т

PETROLEUM

Environmentally

See Section: 2

Not applicable

hazardous substance

3

Т

Classified as a Marine Pollutant.

PETROLEUM DISTILLATES, N.O.S. 3 Т

Environmentally hazardous substance

Revision: 3.0 Date: 14 April 2021

ACCORDING TO OSHA HCS (29 CFR 1910.1200)



	Benzene: Listed
	N-hexane: Listed
	Cumene: Listed
	Naphthalene: Listed
	Xylene: Listed
	Ethylbenzene: Listed
	Toluene: Listed
	Gasoline: Listed (Massachusetts only)
	Hexane (Other Isomers): Listed (Massachusetts only)
	Octane (All isomers): Listed
	Ethanol: Listed
	Pentane: Listed
	1.2.4-trimethylbenzene: Listed
	n-Heptane: Listed
New York -State Right to Know Lists	Petroleum: Listed
	Hydrogen Sulfide: Listed
	Sulfur: Listed
	Benzene: Listed
	N-bevane: Listed
	Cumene: Listed
	Naphthalene: Listed
	Yvlene: Listed
	Ethylbenzene: Listed
	Toluene: Listed
	Ethanol: Listed
	Pontano: Listed
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	Ethanol: Listed
	Pentane: Listed
	1,2,4-trimethylbenzene: Listed
	n-Heptane: Listed
Massachusetts – Toxic Use reduction act	Petroleum: Listed
	Hydrogen Sulfide: Listed
	Sulfur: Listed
	Benzene: Listed
	N-hexane: Listed
	Cumene: Listed
	Naphthalene: Listed
	Xylene: Listed
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	Toluene: Listed
	Ethanol: Listed
	Pentane: Listed
	1,2,4-trimethylbenzene: Listed
	n-Heptane: Listed
Non-Regional	B · · · · · · ·
IARC Monographs	Petroleum: Listed
	Benzene: Listed
	Naphthalene: Listed

Xylene: Listed Ethylbenzene: Listed

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Toluene: Listed Gasoline: Listed Ethanol: 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 Gasoline (CAS No. 86290-81-5); Fuels, diesel, no. 2 (CAS No. 68476-34-6); Toluene (CAS No. 108-88-3); Hexane (Other Isomers) (CAS No. 96-14-0); Xylene (o, m, p isomers) (CAS No.1330-20-7); Octane (All isomers) (CAS No. 111-65-9); Ethanol (CAS No. 64-17-5); 1,2,4-trimethylbenzene (CAS No. 95-63-6); n-Heptane (CAS No. 142-82-5); Pentane (CAS No. 109-66-0); Cumene (CAS No. 98-82-8); Ethylbenzene (CAS No. 100-41-4); Benzene (CAS No. 71-43-2); n-hexane (CAS No. 110-54-3); Cyclohexane (CAS No. 110-82-7); Naphthalene (CAS No. 91-20-3) and Nonane (CAS No. 111-84-2).

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Classification of the substance or mixture in accordance with paragraph (d) of 29 CFR 1910.1200	Classification procedure
Flammable Liquid, Category 1	Flash point (°C) / Boiling Point (°C)
Aspiration hazard, Category 1	High percentage inclusion of components with Aspiration hazard
Skin Corrosion/Irritation, Category 2	Threshold Calculation
Eye Irritation, Category 2	Threshold Calculation
Acute toxicity, Category 3 (Inhalation)	ATE Calculation method
Specific target organ toxicity — single exposure, Category 3 (Respiratory Irritation)	Threshold Calculation
Specific target organ toxicity — single exposure, Category 3 (Narcotic effects)	Threshold Calculation
Carcinogen, Category 1A	Threshold Calculation
Germ cell mutagenicity, Category 1B	Threshold Calculation
Reproductive toxicity, Category 2	Threshold Calculation
Specific target organ toxicity — repeated exposure, Category 2	Threshold Calculation
Hazardous to the aquatic environment, Acute, Category 1	Summation Calculation
Hazardous to the aquatic environment, Chronic, Category 1	Summation Calculation

Legend

ADR/RID	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road / RID: Regulations
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.

Disclaimers

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