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ACCORDING TO OSHA HCS (29 CFR 1910.1200)



**Hamaca Blend** 

# **SECTION 1: IDENTIFICATION**

**Product identifier** 

Product name Hamaca Blend CAS No. 8002-05-9

Other means of identification Sour Crude Oil, Sweet Crude Oil, Light Crude Oil, Heavy Crude

Oil, Generic Crude Oil, Petroleum Oil

Relevant identified uses of the substance or mixture

and uses advised against

Identified Use(s) Feedstock for conventional refineries. Hamaca Blend is a synthetic

crude oil of an approximately 26 API, obtained from upgrading Venezuelan extra heavy 8 API Hamaca Crude Oil. Commercial Crude will be exported and sold in the international market; being suitable as

feedstock for conventional refineries.

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 (713) 230-1000 713-230-1185 SDSHOU@vitol.com

**Emergency telephone number** 

E-mail (competent person)

Telephone

Fax

Emergency Phone No. 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

Physical hazards Flammable Liquid, Category 1
Health hazards Aspiration hazard, Category 1

Eye Irritation, Category 2A

Specific target organ toxicity — single exposure, Category 3 (Narcotic effects)

Carcinogen, Category 1B

Specific target organ toxicity — repeated exposure, Category 2 Hazardous to the aquatic environment, Chronic, Category 2

Label elements

Hazard Pictogram(s)

Environmental hazards









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 eye irritation.

May cause drowsiness or dizziness.

May cause cancer.

May cause damage to organs through prolonged or repeated exposure.

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 INHALED: Remove person to fresh air and keep comfortable for breathing. 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 medical advice/attention.

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.

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:

Other hazards

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.
Petroleum	100	8002-05-9	232-298-5

#### **Hazardous constituents**

tuents				
Chemical identity of the substance	%W/W	CAS No.	EC No.	
Hydrocarbons, C6, isoalkanes, <5% n-hexane	< 96	64742-49-0	931-254-9	
Diatomic carbon	0 - 12	12070-15-4	-	
Hydrogen Sulfide	< 10	7783-06-4	231-977-3	

# **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

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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. Do not ingest. If swallowed then seek immediate medical assistance.

Hydrogen sulphide (H2S) can accumulate in the headspace of storage tanks and reach potentially hazardous concentrations.

If there is any suspicion of inhalation: A self contained breathing apparatus should be worn. Remove to fresh air immediately.

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. Apply artificial respiration only if patient is not breathing but do not use mouth to mouth resuscitation. Get medical advice/attention if you feel unwell.

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.

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 medical advice/attention.

IF SWALLOWED: rinse mouth. Do NOT induce vomiting. If unconscious, place in 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 for symptoms to appear. Immediately call a POISON CENTER/doctor.

May be fatal if swallowed and enters airways. Causes serious eye irritation. May cause drowsiness or dizziness. May cause cancer. May cause damage to organs through prolonged or repeated exposure.

Treat symptomatically.

IF IN EYES: Treatment by an ophthalmologist due to possible caustic burn of the eves may be required.

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.

# H2S Warning:

Inhalation

Skin contact

Eve contact

Ingestion

Most important symptoms and effects, both acute and delayed

Indication of any immediate medical attention and special treatment needed

Notes to a physician:

# 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.

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

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Methods and material for containment and cleaning

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.

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.

# **SECTION 7: HANDLING AND STORAGE**

Precautions for safe handling

H2S Warning:

Conditions for safe storage, including any incompatibilities

Storage temperature Incompatible materials

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.

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. These controls may include: Segregation of areas, Access only to authorised persons, Permit to work systems, Confined space working procedures, Area H2S alarms, Personal H2S alarms, Personal escape sets, H2S awareness training. 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.

Stable at ambient temperatures.

Strong oxidising agents.

# **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/m³)	Note
Petroleum	8002-05-9	-	350	-	1800	NIOSH
Hydrogen Sulfide 7783-06-4	-	-	10	15	NIOSH	
	-	-	20	-	OSHA	
	1	-	5	-	ACGIH	
Benzene 71-43-2	0.1	0.42	1	3.2	NIOSH	
	71-43-2	1	-	5	-	OSHA
		0.5	-	2.5	-	ACGIH
		50	180	-	-	NIOSH
N-hexane	110-54-3	50	1800	-	-	OSHA
		50	-	-	-	ACGIH
		10	50	15	75	NIOSH
Naphthalene	91-20-3	10	50			OSHA
		10	-	-	-	ACGIH
Toluene	108-88-3	100	375	150	560	NIOSH
Dutono	100.07.0	800	1900	-	-	NIOSH
Butane	106-97-8	-	-	100	-	ACGIH
Pentane 109-66-0	120	350	610	1800	NIOSH	
	1000	2950	-	-	OSHA	
	1000	-	-	-	ACGIH	
Ovelenentene	007.00.0	619	1720	-	-	NIOSH
Cyclopentane	287-92-3	600	-	-	-	ACGIH
Cyclohexane 110-82-7	300	1050	-	-	NIOSH	
	300	1050	-	-	OSHA	
	100	-	-	-	ACGIH	
		400	1600			NIOSH
Metilcyclohexane	108-87-2	500	2000	-	-	OSHA
,	400	-	-	-	ACGIH	
		85	350	440	1800	NIOSH
n-heptane	142-82-5	500	2000	-	-	OSHA
		400	-	500	-	ACGIH

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

**Biological exposure indicies** 

Not established.

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.

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



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

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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 Thick light yellow to dark black oily liqui

Odour Petroleum hydrocarbon

Odour threshold Not determined pH Not applicable

Melting point/freezing point

Initial boiling point and boiling range

Flash point

Not determined

Not determined

Vot determined

Flash point < 100°F (38°)
Evaporation rate Not determined
Flammability (solid, gas) Not applicable - Liquid

Upper/lower flammability or explosive limits Variable

Vapour pressure 7.0 max. (reid psia)

Vapour density > 1

Relative density

Solubility(ies)

Partition coefficient: n-octanol/water

Auto-ignition temperature

Decomposition temperature

Not determined

Not determined

Not determined

Viscosity Not determined

Other information

 Specific Gravity
 0.899

 M.W./Range:
 254 - 258

 Volatiles
 1-50

# **SECTION 10: STABILITY AND REACTIVITY**

Reactivity Stable under normal conditions. Reacts with - Strong oxidising agents

Chemical stability Stable under normal conditions. Hazardous polymerisation will not occur.

Product may release Hydrogen Sulphide.

Possibility of hazardous reactions 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. Product may release Hydrogen Sulphide.

Conditions to avoid Elevated temperature. Keep away from heat, hot surfaces, sparks, open flames

and other ignition sources. No smoking. Keep away from direct sunlight.

Incompatible materials Keep away from oxidising agents. Strong Acids and Alkalis.

Hazardous decomposition products 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.

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Acute toxicity - Inhalation

Skin corrosion/irritation

Germ cell mutagenicity

Reproductive toxicity

**Aspiration hazard** 

STOT - single exposure

STOT - repeated exposure

Carcinogenicity

Acute toxicity - Skin contact

Serious eye damage/irritation

Respiratory or skin sensitisation



**Hamaca Blend** 

Calculated acute toxicity estimate (ATE) >2,000 mg/kg.

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

Calculated acute toxicity estimate (ATE) > 5 mg/L (Vapour)

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

Calculated acute toxicity estimate (ATE) >2,000 mg/kg.

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

Eye Irritation, Category 2A: Causes serious eye irritation.

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

Carcinogen, Category 1B: May cause cancer.

**EU Harmonised Classification** 

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

Specific target organ toxicity — repeated exposure, Category 3 (Narcotic

effects): May cause drowsiness or dizziness.

Specific target organ toxicity — repeated exposure, Category 2: May cause

damage to organs through prolonged or repeated exposure.

Aspiration hazard, Category 1: May be fatal if swallowed and enters airways.

This product was conservatively classified under the basis of: high percentage

inclusion of components with Aspiration hazard

Information on likely routes of exposure

Inhalation Possible - accidental exposure Ingestion Possible - accidental exposure Skin contact Possible - accidental exposure Eye contact Unlikely - accidental exposure

Early onset symptoms related to exposure Causes serious eye irritation. May cause drowsiness or dizziness.

Delayed health effects from exposure May cause cancer. May cause damage to organs through prolonged or repeated

exposure.

Exposure levels and health effects See Section: 8

Interactive effects None known

Other information

**OSHA** Designated Carcinogen NIOSH Occupational Carcinogen List NTP Report on Carcinogens

IARC Monographs Petroleum: Listed

Benzene: Listed

Benzene: Listed

Benzene: Listed

# **SECTION 12: ECOLOGICAL INFORMATION**

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

life with long lasting effects.

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

single substances and are not appropriate for this complex substance

Bioaccumulative potential Substance is complex UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance

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

single substances and are not appropriate for this complex substance

Other adverse effects None known.

# **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

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national legislation. Containers of this material may be hazardous when empty since they retain product residue.

### **SECTION 14: TRANSPORT INFORMATION**

Road/rail (ADR/RID) Sea transport (IMDG) Air (ICAO/IATA)
UN 1267 UN1267 UN1267
UN proper shipping name PETROLEUM CRUDE PETROLEUM CRUDE

 OIL
 OIL
 OIL
 OIL

 Transport hazard class(es)
 3
 3
 3

 Packing group
 I
 I
 I

Environmental hazardsEnvironmentallyClassified as a MarineEnvironmentallyhazardous substancePollutant.hazardous substance

Special precautions for user

Transport in bulk according to Annex II of Marpol

Not applicable

Transport in bulk according to Annex II of Marpol and the IBC Code

and the IBO 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

NIOSH Occupational Carcinogen List

EPCRA Section 313

CWA 307- Toxic

CERCLA - Hazardous Substances

CWA Section 311 List of Hazardous Substances

Not listed

Not listed

Not listed

Not listed

# **US State Regulations**

Proposition 65 (California)

Mot listed

Massachusetts, New Jersey, Pennsylvania, Rhode

Listed

Island- State Right to Know Lists

New York -State Right to Know Lists

Listed

Minnesota - State Right to Know Lists

Listed

Massachusetts – Toxic Use reduction act

Listed

Non-Regional

IARC Monographs 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.

Version 3

Revision Date 14 April 2021

**Date of First Issue** Not available. 2<sup>ND</sup> 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 EU classification and labelling inventory for Petroleum (CAS. 8002-05-9).

Classification of the substance or mixture in accordance with paragraph (d) of 29 CFR 1910.1200	Classification procedure
Flammable Liquid, Category 1	Flash point
Aspiration hazard, Category 1	High percentage inclusion of components with aspiration hazard

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Eye Irritation, Category 2	Threshold calculation
Specific target organ toxicity — repeated exposure,	Threshold calculation
Category 3 (Narcotic effects)	
Carcinogen, Category 1B	Threshold calculation
Specific target organ toxicity — repeated exposure,	Threshold calculation
Category 2	
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 Chemical Abstracts Service

CERCLA Comprehensive Environmental Response Compensation and Liability Act

CWA Clean Water Act
EC European Community
ECHA European Chemicals Agency

EPCRA Emergency Planning and Community Right-to-Know Act

EN European Standard EU European Union

IARC International Agency for Research on Cancer

ICAO/IATA International Civil Aviation Organization / International Air Transport Association

IMDG IMDG: International Maritime Dangerous Goods

LC50 Lethal concentration at which 50% of the population is killed

LD50 Lethal dose at which 50% of the population is killed

LTEL Long term exposure limit

OECD Organisation for Economic Cooperation and Development

OSHA The Occupational Safety & Health Administration

STEL Short term exposure limit
TSCA Toxic Substance Control Act
TWA Time Weighted Average

UN United Nations

UVCB Unknown or Variable Composition

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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