

**Saudi Mogas Blending Stream**

Version 1.5

Revision Date 2017-09-05

SECTION 1: Identification of the substance/mixture and of the company/undertaking**Product information**

Product Name : Saudi Mogas Blending Stream
Material : 1098295

Company : Saudi Chevron Phillips Company
10001 Six Pines Drive
The Woodlands, TX 77380

Local : Saudi Chevron Phillips
PO Box 11221
Jubail Industrial City
Eastern Province, 31961

SDS Requests: (800) 852-5530
Technical Information: (832) 813-4862
Responsible Party: Product Safety Group
Email:sds@cpchem.com

Emergency telephone:**Health:**

866.442.9628 (North America)

1.832.813.4984 (International)

Transport:

CHEMTREC 800.424.9300 or 703.527.3887(int'l)

Asia: CHEMWATCH (+612 9186 1132) China: 0532 8388 9090

EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Mexico CHEMTREC 01-800-681-9531 (24 hours)

South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600

Argentina: +(54)-1159839431

Responsible Department : Product Safety and Toxicology Group
E-mail address : SDS@CPChem.com
Website : www.CPChem.com

SECTION 2: Hazards identification**Classification of the substance or mixture****Globally Harmonized System of Classification and Labeling of Chemicals (GHS)****GHS-Classification**

: Flammable liquids, Category 2
Acute toxicity, Category 4, Inhalation
Skin corrosion/irritation, Category 2

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Serious eye damage/eye irritation, Category 2A
 Germ cell mutagenicity, Category 1B
 Carcinogenicity, Category 1B
 Reproductive toxicity, Category 2
 Specific target organ systemic toxicity - single exposure,
 Category 3, Respiratory system, Central nervous system
 Specific target organ systemic toxicity - repeated exposure,
 Category 1, Eyes, Blood
 Specific target organ systemic toxicity - repeated exposure,
 Category 2, Auditory organs, color vision, Liver, Kidney
 Specific target organ systemic toxicity - repeated exposure,
 Category 2, Inhalation, Auditory organs
 Aspiration hazard, Category 1
 Acute aquatic toxicity, Category 2
 Chronic aquatic toxicity, Category 2

GHS-Labeling

Symbol(s)



Signal Word

: Danger

Hazard Statements

: H225: Highly flammable liquid and vapor.
 H304: May be fatal if swallowed and enters airways.
 H315: Causes skin irritation.
 H319: Causes serious eye irritation.
 H332: Harmful if inhaled.
 H335: May cause respiratory irritation.
 H336: May cause drowsiness or dizziness.
 H340: May cause genetic defects.
 H350: May cause cancer.
 H361d: Suspected of damaging the unborn child.
 H372: Causes damage to organs (Eyes, Blood, Auditory organs, color vision, Liver, Kidney) through prolonged or repeated exposure.
 H373: May cause damage to organs (Auditory organs) through prolonged or repeated exposure if inhaled.
 H411: Toxic to aquatic life with long lasting effects.

Precautionary Statements

: **Prevention:**
 P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P233 Keep container tightly closed.
 P240 Ground and bond container and receiving equipment.
 P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
 P242 Use non-sparking tools.
 P243 Take action to prevent static discharges.
 P260 Do not breathe dust/fume/gas/mist/vapor/spray.
 P264 Wash skin thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P271 Use only outdoors or in a well-ventilated area.
 P273 Avoid release to the environment.

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P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P331 Do NOT induce vomiting.

P332 + P313 If skin irritation occurs: Get medical advice/ attention.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

P391 Collect spillage.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

SECTION 3: Composition/information on ingredients

Synonyms : None Established

Molecular formula : UVCB

Chemical name	CAS-No. / EINECS-No.	Concentration [wt%]
Toluene	108-88-3	1 - 80
Ethylbenzene	100-41-4	1 - 50
Benzene, dimethyl-	1330-20-7	5 - 20
Benzene	71-43-2	1 - 20
Cyclohexane	110-82-7	1 - 20
Naphthalene	91-20-3	1 - 3

SECTION 4: First aid measures

General advice : Move out of dangerous area. Show this material safety data sheet to the doctor in attendance. Material may produce a serious, potentially fatal pneumonia if swallowed or vomited.

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|-------------------------|---|---|
| If inhaled | : | Consult a physician after significant exposure. If unconscious, place in recovery position and seek medical advice. |
| In case of skin contact | : | If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes. |
| In case of eye contact | : | Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist. |
| If swallowed | : | Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital. |

SECTION 5: Firefighting measures

- | | | |
|--|---|--|
| Flash point | : | -18 °C (0 °F) |
| Autoignition temperature | : | 288 °C (550 °F) |
| Suitable extinguishing media | : | Alcohol-resistant foam. Carbon dioxide (CO ₂). Dry chemical. |
| Unsuitable extinguishing media | : | High volume water jet. |
| Specific hazards during fire fighting | : | Do not allow run-off from fire fighting to enter drains or water courses. |
| Special protective equipment for fire-fighters | : | Wear self-contained breathing apparatus for firefighting if necessary. |
| Further information | : | Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers. |
| Fire and explosion protection | : | Do not spray on an open flame or any other incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition. |
| Hazardous decomposition products | : | Carbon oxides. |

SECTION 6: Accidental release measures

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|----------------------|---|--|
| Personal precautions | : | Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low |
|----------------------|---|--|

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areas.

Environmental precautions : Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

SECTION 7: Handling and storage**Handling**

Advice on safe handling : Avoid formation of aerosol. Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Do not spray on an open flame or any other incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.

Storage

Requirements for storage areas and containers : No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

SECTION 8: Exposure controls/personal protection**Ingredients with workplace control parameters****DE**

Ingredients	Basis	Value	Control parameters	Note
Toluene	DE TRGS 900	AGW	50 ppm, 190 mg/m ³	DFG, EU, H, Y,
Ethylbenzene	DE TRGS 900	AGW	20 ppm, 88 mg/m ³	DFG, EU, H, Y,
	DE TRGS 900	AGW	200 mg/m ³	Group-AGW, AGS,
Benzene, dimethyl-	DE TRGS 900	AGW	100 ppm, 440 mg/m ³	DFG, EU, H,
Naphthalene	DE TRGS 900	AGW	0.1 ppm, 0.5 mg/m ³	AGS, 11, H, Y, Vapour and aerosols, inhalable fraction
Cyclohexane	DE TRGS 900	AGW	200 ppm, 700 mg/m ³	DFG, EU,
Benzene	DE TRGS 910	Acceptable concentration	0.06 ppm, 0.2 mg/m ³	b, H,
	DE TRGS 910	Tolerable concentration	0.6 ppm, 1.9 mg/m ³	H,

11 Sum of vapor and aerosols.

AGS Commission for dangerous substances

b Acceptable concentration associated with the risk 4:10000

DFG Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).

EU European Union (The EU has established a limit value: deviations in value and peak limit are possible)

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Group-AGW Group exposure limit for hydrocarbon solvent mixtures
 H Skin absorption
 Y When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child

IN

Ingredients	Basis	Value	Control parameters	Note
Toluene	IN OEL	TWA	100 ppm, 375 mg/m ³	
	IN OEL	STEL	150 ppm, 560 mg/m ³	
Benzene, dimethyl-	IN OEL	TWA	100 ppm, 435 mg/m ³	
	IN OEL	STEL	150 ppm, 655 mg/m ³	
Naphthalene	IN OEL	TWA	10 ppm, 50 mg/m ³	
	IN OEL	STEL	15 ppm, 75 mg/m ³	
Benzene	IN OEL	TWA	0.5 ppm, 1.5 mg/m ³	HC,
	IN OEL	STEL	2.5 ppm, 7.5 mg/m ³	HC,

HC Confirmed human carcinogens

MY

Komponen	Dasar	Nilai	Parameter Kawalan	Nota
Toluene	MY PEL	TWA	50 ppm, 188 mg/m ³	
Ethylbenzene	MY PEL	TWA	100 ppm, 434 mg/m ³	
Benzene, dimethyl-	MY PEL	TWA	100 ppm, 434 mg/m ³	
Naphthalene	MY PEL	TWA	10 ppm, 52 mg/m ³	
Benzene	MY PEL	TWA	0.5 ppm, 1.6 mg/m ³	
Cyclohexane	MY PEL	TWA	300 ppm, 1,030 mg/m ³	

PH

Ingredients	Basis	Value	Control parameters	Note
Toluene	PH OEL	TWA	100 ppm, 375 mg/m ³	
Ethylbenzene	PH OEL	C	100 ppm, 435 mg/m ³	
Benzene, dimethyl-	PH OEL	TWA	100 ppm, 435 mg/m ³	
Naphthalene	PH OEL	TWA	10 ppm, 50 mg/m ³	
Benzene	PH OEL	C	25 ppm, 80 mg/m ³	
Cyclohexane	PH OEL	TWA	300 ppm, 1,050 mg/m ³	

US

Ingredients	Basis	Value	Control parameters	Note
Toluene	ACGIH	TWA	20 ppm,	visual impair, female repro, pregnancy loss, BEI, A4,
	OSHA Z-2	TWA	200 ppm,	
	OSHA Z-2	CEIL	300 ppm,	
	OSHA Z-2	Peak	500 ppm,	
	OSHA Z-1-A	TWA	100 ppm, 375 mg/m ³	
	OSHA Z-1-A	STEL	150 ppm, 560 mg/m ³	
	CAL PEL	PEL	10 ppm, 37 mg/m ³	S,
	CAL PEL	C	500 ppm,	S,
Ethylbenzene	CAL PEL	STEL	150 ppm, 560 mg/m ³	S,
	OSHA Z-1	TWA	100 ppm, 435 mg/m ³	(b),
	OSHA Z-1-A	TWA	100 ppm, 435 mg/m ³	
	OSHA Z-1-A	STEL	125 ppm, 545 mg/m ³	
Benzene, dimethyl-	ACGIH	TWA	20 ppm,	
	OSHA Z-1	TWA	100 ppm, 435 mg/m ³	(b),
	OSHA Z-1-A	STEL	150 ppm, 655 mg/m ³	
	OSHA Z-1-A	TWA	100 ppm, 435 mg/m ³	
	CAL PEL	STEL	150 ppm, 655 mg/m ³	
	ACGIH	TWA	100 ppm,	CNS impair, URT irr, eye irr, BEI, A4,
	ACGIH	STEL	150 ppm,	CNS impair, URT irr, eye irr, BEI, A4,
	ACGIH	TWA	10 ppm,	hemolytic anemia, URT irr, cataract, A3, Skin,
Naphthalene	ACGIH	STEL	15 ppm,	hematologic eff, URT irr, eye irr, eye dam, (), A4, Skin,
	OSHA Z-1	TWA	10 ppm, 50 mg/m ³	(b),
	OSHA Z-1-A	TWA	10 ppm, 50 mg/m ³	
	OSHA Z-1-A	STEL	15 ppm, 75 mg/m ³	
	ACGIH	TWA	0.5 ppm,	leukemia, BEI, A1, Skin,
	ACGIH	STEL	2.5 ppm,	leukemia, BEI, A1, Skin,
	OSHA Z-1-A	TWA	1 ppm,	
	OSHA Z-1-A	CEIL	5 ppm,	
Benzene	OSHA Z-2	Peak	50 ppm,	(a),
	OSHA 29 CFR 1910.1028(c)	TWA	1 ppm,	
	OSHA 29 CFR 1910.1028(c)	STEL	5 ppm,	
	OSHA CARC	PEL	1 ppm,	
	OSHA CARC	STEL	5 ppm,	
	CAL PEL	PEL	1 ppm,	S,

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	CAL PEL	STEL	5 ppm,	S,
Cyclohexane	ACGIH	TWA	100 ppm,	CNS impair,
	OSHA Z-1	TWA	300 ppm, 1,050 mg/m3	(b),
	OSHA Z-1-A	TWA	300 ppm, 1,050 mg/m3	

- (i) Adopted values or notations enclosed are those for which changes are proposed in the NIC
- (a) This standard applies to the industry segments exempt from the 1 ppm 8-hour TWA and 5 ppm STEL of the benzene standard at 1910.1028.
- (b) The value in mg/m3 is approximate.
- A1 Confirmed human carcinogen
A3 Confirmed animal carcinogen with unknown relevance to humans
A4 Not classifiable as a human carcinogen
BEI Substances for which there is a Biological Exposure Index or Indices (see BEI® section)
- cataract Cataract
CNS impair Central Nervous System impairment
eye dam Eye damage
eye irr Eye irritation
female repro Female reproductive
hematologic eff Hematologic effects
hemolytic anemia Hemolytic anemia
leukemia Leukemia
pregnancy loss Pregnancy loss
S Skin
Skin Danger of cutaneous absorption
URT irr Upper Respiratory Tract irritation
visual impair Visual impairment

Biological exposure indices**DE**

Substance name	CAS-No.	Control parameters	Sampling time	Update
Toluene	108-88-3	toluene: 600 µg/l (Blood)	Immediately after exposure or after working hours	2013-04-04
		o-cresol: 1.5 mg/l (Urine)	Immediately after exposure or after working hours In case of long-term exposure: after more than one shift	2013-04-04
Ethylbenzene	100-41-4	mandelic acid + phenylglyoxylic acid: 300 mg/l (Urine)	Immediately after exposure or after working hours	2013-04-04
Benzene, dimethyl-	1330-20-7	xylene: 1.5 mg/l (Blood)	Immediately after exposure or after working hours	2013-09-19
		methylhippuric acid (all isomers): 2 g/l (Urine)	Immediately after exposure or after working hours	2013-09-19
Cyclohexane	110-82-7	1,2-cyclohexanediol: 150 mg/g Creatinine (Urine)	Immediately after exposure or after working hours In case of long-term exposure: after more than one shift	2013-04-04

IN

Substance name	CAS-No.	Control parameters	Sampling time	Update
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MY

Nama bahan	No.-CAS	Parameter Kawalan	Waktu persampelan	Kemaskini
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PH

Substance name	CAS-No.	Control parameters	Sampling time	Update
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US

Substance name	CAS-No.	Control parameters	Sampling time	Update
Toluene	108-88-3	Toluene: 0.02 mg/l (In blood)	Prior to last shift of working week	2010-03-01

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		Toluene: 0.03 mg/l (Urine)	End of shift (As soon as possible after exposure ceases)	2010-03-01
		o-Cresol: 0.3 mg/g Creatinine (Urine)	End of shift (As soon as possible after exposure ceases)	2010-03-01
Ethylbenzene	100-41-4	Sum of mandelic acid and phenyl glyoxylic acid: 0.15 g/g creatinine (Urine)	End of shift (As soon as possible after exposure ceases)	2014-03-01
Benzene, dimethyl-	1330-20-7	Methylhippuric acids: 1.5 g/g creatinine (Urine)	End of shift (As soon as possible after exposure ceases)	2013-03-01
Benzene	71-43-2	S-Phenylmercapturic acid: 25 µg/g creatinine (Urine)	End of shift (As soon as possible after exposure ceases)	2010-03-01
		t,t-Muconic acid: 500 µg/g creatinine (Urine)	End of shift (As soon as possible after exposure ceases)	2010-03-01

Engineering measures

Adequate ventilation to control airborne concentrations below the exposure guidelines/limits. Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

Personal protective equipment

- Respiratory protection : Wear a supplied-air NIOSH approved respirator unless ventilation or other engineering controls are adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure. Wear a NIOSH approved respirator that provides protection when working with this material if exposure to harmful levels of airborne material may occur, such as: Air-Purifying Respirator for Organic Vapors. Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection.
- Hand protection : The suitability for a specific workplace should be discussed with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
- Eye protection : Eye wash bottle with pure water. Tightly fitting safety goggles.
- Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Wear as appropriate: Flame retardant antistatic protective clothing. Workers should wear antistatic footwear.

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Hygiene measures : When using do not eat or drink. When using do not smoke.
Wash hands before breaks and at the end of workday.

SECTION 9: Physical and chemical properties**Information on basic physical and chemical properties****Appearance**

Form : Liquid
Physical state : Liquid
Color : Colorless
Odor : Aromatic
Odor Threshold : No data available

Safety data

Flash point : -18 °C (0 °F)
Lower explosion limit : 1.2 %(V)
Upper explosion limit : 7.5 %(V)
Oxidizing properties : No

Autoignition temperature : 288 °C (550 °F)
Molecular formula : UVCB
Molecular weight : Not applicable
pH : Not applicable
Freezing point : -40 °C (-40 °F)

Pour point : No data available

Boiling point/boiling range : 49 °C (120 °F)
Vapor pressure : 4.00 PSI
at 37.8 °C (100.0 °F)
Relative density : 0.7
at 15.5 °C (59.9 °F)
Density : 0.7 g/cm³
Water solubility : Soluble in hydrocarbon solvents; insoluble in water.
Partition coefficient: n-octanol/water : No data available
Viscosity, kinematic : No data available
Relative vapor density : 3
(Air = 1.0)

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Evaporation rate : No data available

Percent volatile : > 99 %

SECTION 10: Stability and reactivity

Chemical stability : This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Possibility of hazardous reactions

Conditions to avoid : Heat, flames and sparks.

Materials to avoid : May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

Hazardous decomposition products : Carbon oxides

Other data : No decomposition if stored and applied as directed.

SECTION 11: Toxicological information**Saudi Mogas Blending Stream**

Acute oral toxicity : LD50 Oral: > 5,000 mg/kg
Species: Rat
Method: Acute toxicity estimate

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Acute inhalation toxicity : LC50: 11.36 mg/l
Exposure time: 4 h
Species: Rat
Test atmosphere: vapor
Method: Acute toxicity estimate

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Acute dermal toxicity : LD50 Dermal: > 5,000 mg/kg
Species: Rabbit
Method: Acute toxicity estimate

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Skin irritation : May cause skin irritation in susceptible persons.

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Eye irritation : May irritate eyes.

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Sensitization : No adverse effects expected.

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Repeated dose toxicity : Method: Based on product or component testing, long term

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repeated exposure may cause damage to the following organs:

Target Organs: Auditory organs, Nervous system, Eyes, Blood, Liver, Kidney

Estimated based on individual component values.

Saudi Mogas Blending Stream**Carcinogenicity**

: Method: Expected to be carcinogenic based on individual component data.

Saudi Mogas Blending Stream**Reproductive toxicity**

: Method: Estimated based on individual component values. Suspected of damaging fertility or the unborn child.

Saudi Mogas Blending Stream**Developmental Toxicity**

: Method: Estimated based on individual component values. Suspected of damaging fertility or the unborn child.

Saudi Mogas Blending Stream**Aspiration toxicity**

: May be fatal if swallowed and enters airways.

Toxicology Assessment**Saudi Mogas Blending Stream****CMR effects**

: Carcinogenicity:
May cause cancer.
Mutagenicity:
May cause genetic defects.
Teratogenicity:
Suspected of damaging the unborn child.

Saudi Mogas Blending Stream**Further information**

: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Concentrations substantially above the TLV value may cause narcotic effects. Solvents may degrease the skin.

SECTION 12: Ecological information**Ecotoxicity effects****Toxicity to fish**

: LC50: 1 - 10 mg/l
Exposure time: 96 h
Species: Fish
Estimated based on individual component values.

Toxicity to daphnia and other aquatic invertebrates

: LC50: 1 - 10 mg/l
Exposure time: 48 h
Species: Daphnia
Estimated based on individual component values.

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Toxicity to algae : EC50: 1 - 10 mg/l
Species: Selenastrum capricornutum (algae)
Estimated based on individual component values.

cyclohexane : 1

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

Ethylbenzene : NOEC: 1 mg/l
Exposure time: 7 d
Species: Daphnia pulex (Water flea)
semi-static test
Analytical monitoring: yes

Elimination information (persistence and degradability)

Bioaccumulation : No data available

Biodegradability : Expected to be ultimately biodegradable

Ecotoxicology Assessment

Acute aquatic toxicity : Toxic to aquatic life.

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

Results of PBT assessment : This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT)., This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

The information in this SDS pertains only to the product as shipped.

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

Product : The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

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SECTION 14: Transport information

The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments in non-bulk packages (see regulatory definition).

Consult the appropriate domestic or international mode-specific and quantity-specific Dangerous Goods Regulations for additional shipping description requirements (e.g., technical name or names, etc.) Therefore, the information shown here, may not always agree with the bill of lading shipping description for the material. Flashpoints for the material may vary slightly between the SDS and the bill of lading.

US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)

UN1203, GASOLINE, 3, II, MARINE POLLUTANT, (NAPHTHALENE)

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

UN1203, GASOLINE, 3, II, (-18 °C), MARINE POLLUTANT, (CYCLOHEXANE, NAPHTHALENE)

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

UN1203, GASOLINE, 3, II

ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))

UN1203, MOTOR SPIRIT, 3, II, (D/E), ENVIRONMENTALLY HAZARDOUS, (CYCLOHEXANE, NAPHTHALENE)

RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))

UN1203, GASOLINE, 3, II, ENVIRONMENTALLY HAZARDOUS, (CYCLOHEXANE, NAPHTHALENE)

ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)

UN1203, GASOLINE, 3, II, ENVIRONMENTALLY HAZARDOUS, (CYCLOHEXANE, NAPHTHALENE)

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information**Notification status**

Europe REACH	:	Not in compliance with the inventory
United States of America (USA) TSCA	:	On TSCA Inventory
Canada NDSL	:	This product contains one or several components listed in the Canadian NDSL.
Australia AICS	:	On the inventory, or in compliance with the inventory

Saudi Mogas Blending Stream

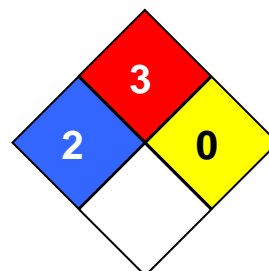
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New Zealand NZIoC	:	Not in compliance with the inventory
Japan ENCS	:	On the inventory, or in compliance with the inventory
Korea KECI	:	Not in compliance with the inventory
Philippines PICCS	:	Not in compliance with the inventory
China IECSC	:	Not in compliance with the inventory

SECTION 16: Other information

NFPA Classification : Health Hazard: 2
Fire Hazard: 3
Reactivity Hazard: 0

**Further information**

Legacy SDS Number : JCP00012

Significant changes since the last version are highlighted in the margin. This version replaces all previous versions.

The information in this SDS pertains only to the product as shipped.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Key or legend to abbreviations and acronyms used in the safety data sheet

ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit

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IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%		