

# SAFETY DATA SHEET

Mexican official standard NOM-018-STPS-2015

## NGL - Condensate - C5+

Version	Revision Date:	SDS Number:	Print Date: 09/07/2022
2.0	06/22/2018	800010025854	Date of last issue: 20.01.2017
			Date of first issue: 08.01.2016

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### SECTION 1. IDENTIFICATION OF THE HAZARDOUS PRODUCT OR MIXTURE AND THE SUPPLIER OR MANUFACTURER

Product name : NGL - Condensate - C5+

Product code : X3549

#### Manufacturer or supplier's details

Company : **Shell Chemical LP**  
PO Box 576  
HOUSTON TX 77001  
USA

SDS Request : +52 (55) 3223 9057  
Customer Service :

#### Emergency telephone number

Chemtrec Domestic (24 hr) : SETIQ ANIQ 01 800 002 1400 (Rep. Mexicana), +52 (55) 5559 1588 (local e internacional); CHEMTREC +1 (703) 527-3887 (Internacional)

Chemtrec International (24 hr) :

#### Recommended use of the chemical and restrictions on use

Recommended use : Refinery Feedstock.

Restrictions on use : This product must not be used in applications other than those listed in Section 1 without first seeking the advice of the supplier.

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### SECTION 2. HAZARDS IDENTIFICATION

#### GHS Classification

Flammable liquids : Category 1

Skin irritation : Category 2

Carcinogenicity : Category 1B

Germ cell mutagenicity : Category 1B

Reproductive toxicity : Category 2

Aspiration hazard : Category 1

Specific target organ toxicity : Category 3 (Narcotic effects)  
- single exposure (Inhalation)

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Acute aquatic toxicity : Category 2

Chronic aquatic toxicity : Category 2

### GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements :  
PHYSICAL HAZARDS:  
H224 Extremely flammable liquid and vapour.  
HEALTH HAZARDS:  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H336 May cause drowsiness or dizziness.  
H340 May cause genetic defects.  
H361 Suspected of damaging fertility or the unborn child.  
H350 May cause cancer.  
ENVIRONMENTAL HAZARDS:  
H401 Toxic to aquatic life.  
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements :  
**Prevention:**  
P201 Obtain special instructions before use.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

#### Response:

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

#### Storage:

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

#### Disposal:

P501 Dispose of contents and container to appropriate waste site or reclaimer in accordance with local and national regulations.

### Other hazards which do not result in classification

Slightly irritating to respiratory system.

Hydrogen sulphide (H<sub>2</sub>S), an extremely flammable and toxic gas, and other hazardous vapours may evolve and collect in the headspace of storage tanks, transport vessels and other enclosed containers.

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Liquid evaporates quickly and can ignite leading to a flash fire, or an explosion in a confined space.

May ignite on surfaces at temperatures above auto-ignition temperature.

Flammable vapours may be present even at temperatures below the flash point.

This material is a static accumulator.

Even with proper grounding and bonding, this material can still accumulate an electrostatic charge.

If sufficient charge is allowed to accumulate, electrostatic discharge and ignition of flammable air-vapour mixtures can occur.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

Chemical nature : A complex combination of hydrocarbons separated as a liquid from natural gas in a surface separator by retrograde condensation. It consists mainly of hydrocarbons having carbon numbers predominantly in the range of C2 to C20. It is a liquid at atmospheric temperature and pressure.

#### Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
Natural gas condensates (petroleum)	64741-47-5	<= 100

#### Further information

Contains:

Chemical name	Identification number	Concentration [%]
isopentane	78-78-4, 201-142-8	>= 0 - <= 25
pentane	109-66-0, 203-692-4	>= 0 - <= 25
n-Hexane	110-54-3, 203-777-6	>= 0 - <= 12
toluene	108-88-3, 203-625-9	>= 0 - <= 8
cyclohexane	110-82-7, 203-806-2	>= 0 - <= 8
benzene	71-43-2, 200-753-7	>= 0 - <= 5
Ethylbenzene	100-41-4, 202-849-4	>= 0 - <= 1
cumene	98-82-8, 202-704-5	>= 0 - <= 1
Naphthalene	91-20-3, 202-049-5	>= 0 - <= 0.5

### SECTION 4. FIRST-AID MEASURES

General advice : Vapourisation of H2S that has been trapped in clothing can be dangerous to rescuers. Maintain respiratory protection to avoid contamination from the victim to rescuer. Mechanical ventilation should be used to resuscitate if at all possible.

If inhaled : Remove to fresh air. If rapid recovery does not occur, transport to nearest medical facility for additional treatment. Casualties suffering ill effects as a result of exposure to hydrogen sulphide should be removed to fresh air. Do not attempt to rescue the victim unless proper respiratory protection is worn. If the victim has difficulty breathing or tightness of the chest, is dizzy, vomiting, or unresponsive, give

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	100% oxygen with rescue breathing or Cardiopulmonary Resuscitation (CPR) as required and transport to the nearest medical facility.
In case of skin contact	: Remove contaminated clothing. Immediately flush skin with large amounts of water for at least 15 minutes, and follow by washing with soap and water if available. If redness, swelling, pain and/or blisters occur, transport to the nearest medical facility for additional treatment.
In case of eye contact	: Flush eye with copious quantities of water. Remove contact lenses, if present and easy to do. Continue rinsing. If persistent irritation occurs, obtain medical attention.
If swallowed	: Call emergency number for your location / facility. If swallowed, do not induce vomiting: transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. If any of the following delayed signs and symptoms appear within the next 6 hours, transport to the nearest medical facility: fever greater than 101° F (38.3°C), shortness of breath, chest congestion or continued coughing or wheezing.
Most important symptoms and effects, both acute and delayed	: Defatting dermatitis signs and symptoms may include a burning sensation and/or a dried/cracked appearance. Respiratory irritation signs and symptoms may include a temporary burning sensation of the nose and throat, coughing, and/or difficulty breathing. Eye irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blurred vision. If material enters lungs, signs and symptoms may include coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath, and/or fever. The onset of respiratory symptoms may be delayed for several hours after exposure. Breathing of high vapour concentrations may cause central nervous system (CNS) depression resulting in dizziness, light-headedness, headache and nausea.
Protection of first-aiders	: When administering first aid, ensure that you are wearing the appropriate personal protective equipment according to the incident, injury and surroundings.
Indication of any immediate medical attention and special treatment needed	: Hydrogen sulphide (H <sub>2</sub> S) - CNS asphyxiant. May cause rhinitis, bronchitis and occasionally pulmonary oedema after severe exposure. CONSIDER: Oxygen therapy. Consult a Poison Control Center for guidance. Call a doctor or poison control center for guidance. Potential for chemical pneumonitis.

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## SECTION 5. FIRE-FIGHTING MEASURES

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|---|---|--|
| Suitable extinguishing media                  | : | Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.   |
| Unsuitable extinguishing media                | : | Do not use direct water jets on the burning product as they could cause a steam explosion and spread of the fire. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam.  |
| Specific hazards during fire-fighting         | : | <p>Hazardous combustion products may include:<br/>A complex mixture of airborne solid and liquid particulates and gases (smoke).<br/>Carbon monoxide may be evolved if incomplete combustion occurs.<br/>Oxides of nitrogen<br/>Oxides of sulphur.<br/>Unidentified organic and inorganic compounds.<br/>Flammable vapours may be present even at temperatures below the flash point.<br/>The vapour is heavier than air, spreads along the ground and distant ignition is possible.<br/>Hydrogen sulphide (H<sub>2</sub>S) and other toxic sulphur oxides may be given off when this material is heated. Do not depend on sense of smell for warning.</p> |
| Specific extinguishing methods                | : | <p>Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.<br/>If the fire cannot be extinguished the only course of action is to evacuate immediately.<br/>Keep adjacent containers cool by spraying with water.<br/>If possible remove containers from the danger zone.<br/>Contain residual material at affected sites to prevent material from entering drains (sewers), ditches, and waterways.</p>   |
| Special protective equipment for firefighters | : | <p>Proper protective equipment including chemical resistant gloves are to be worn; chemical resistant suit is indicated if large contact with spilled product is expected. Self-Contained Breathing Apparatus must be worn when approaching a fire in a confined space. Select fire fighter's clothing approved to relevant Standards (e.g. Europe: EN469).</p>  |

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

- |   |   |   |
|---|---|---|
| Personal precautions, protective equipment and emergency procedures | : | <p>May ignite on surfaces at temperatures above auto-ignition temperature.<br/>Do not breathe fumes, vapour.<br/>Do not operate electrical equipment.</p>   |
| Environmental precautions   | : | <p>Shut off leaks, if possible without personal risks. Remove all possible sources of ignition in the surrounding area. Use appropriate containment to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers. Attempt to disperse the vapour or to direct its flow to a safe location for</p> |

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- example by using fog sprays. Take precautionary measures against static discharge. Ensure electrical continuity by bonding and grounding (earthing) all equipment.
- Methods and materials for containment and cleaning up : For large liquid spills (> 1 drum), transfer by mechanical means such as vacuum truck to a salvage tank for recovery or safe disposal. Do not flush away residues with water. Retain as contaminated waste. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely. For small liquid spills (< 1 drum), transfer by mechanical means to a labeled, sealable container for product recovery or safe disposal. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely.
- Observe all relevant local and international regulations.  
Avoid contact with skin, eyes and clothing.  
Evacuate the area of all non-essential personnel.  
Ventilate contaminated area thoroughly.  
If contamination of site occurs remediation may require specialist advice.  
Ensure electrical continuity by bonding and grounding (earthing) all equipment.  
Take precautionary measures against static discharges.  
Avoid contact with spilled or released material. For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet.  
See Chapter 13 for information on disposal.
- Additional advice : For guidance on selection of personal protective equipment see Chapter 8 of this Safety Data Sheet.  
Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.  
For guidance on disposal of spilled material see Chapter 13 of this Safety Data Sheet.  
Local authorities should be advised if significant spillages cannot be contained.  
Maritime spillages should be dealt with using a Shipboard Oil Pollution Emergency Plan (SOPEP), as required by MARPOL Annex 1 Regulation 26.

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### SECTION 7. HANDLING AND STORAGE

- Technical measures : Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.  
Properly dispose of any contaminated rags or cleaning materials in order to prevent fires.  
Prevent spillages.  
For comprehensive advice on handling, product transfer, stor-

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age and tank cleaning refer to the product supplier.

Precautions that must be  
taken to ensure safe han-  
dling

: When using do not eat or drink.  
Extinguish any naked flames. Do not smoke. Remove ignition  
sources. Avoid sparks.  
Never siphon by mouth.  
The vapour is heavier than air, spreads along the ground and  
distant ignition is possible.  
Avoid exposure.  
Use only non-sparking tools.  
Use local exhaust ventilation if there is risk of inhalation of  
vapours, mists or aerosols.  
Bulk storage tanks should be diked (bunded).  
The inherent toxic and olfactory (sense of smell) fatiguing  
properties of hydrogen sulphide require that air monitoring  
alarms be used if concentrations are expected to reach harm-  
ful levels such as in enclosed spaces, heated transport ves-  
sels and spill or leak situations. If the air concentration ex-  
ceeds 10 ppm, the area should be evacuated unless respira-  
tory protection is in use.

Avoidance of contact

: Strong oxidising agents.

Product Transfer

: Wait 2 minutes after tank filling (for tanks such as those on  
road tanker vehicles) before opening hatches or manholes.  
Wait 30 minutes after tank filling ( for large storage tanks)  
before opening hatches or manholes.

Avoid splash filling Keep containers closed when not in use.  
Do not use compressed air for filling discharge or handling.  
Contamination resulting from product transfer may give rise to  
light hydrocarbon vapour in the headspace of tanks that have  
previously contained gasoline. This vapour may explode if  
there is a source of ignition. Partly filled containers present a  
greater hazard than those that are full, therefore handling,  
transfer and sampling activities need special care.

Refer to guidance under Handling section.

Hygiene measures

: Ensure that all local regulations regarding handling and stor-  
age facilities are followed.

Hygiene measures

See additional references that provide safe handling practices  
for liquids that are determined to be static accumulators:  
American Petroleum Institute 2003 (Protection Against Igni-  
tions Arising out of Static, Lightning and Stray Currents) or  
National Fire Protection Agency 77 (Recommended Practices  
on Static Electricity).  
IEC/TS 60079-32-1: Electrostatic hazards, guidance

Further information on stor-  
age stability

: Drum and small container storage:  
Keep containers closed when not in use.  
Drums should be stacked to a maximum of 3 high.

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Use properly labeled and closable containers.  
Packaged product must be kept tightly closed and stored in a diked (bunded) well-ventilated area, away from, ignition sources and other sources of heat.  
Take suitable precautions when opening sealed containers, as pressure can build up during storage.  
Tank storage:  
Tanks must be specifically designed for use with this product. Bulk storage tanks should be diked (bunded).  
Locate tanks away from heat and other sources of ignition.  
Cleaning, inspection and maintenance of storage tanks is a specialist operation, which requires the implementation of strict procedures and precautions.  
Electrostatic charges will be generated during pumping. Electrostatic discharge may cause fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment to reduce the risk.  
The vapours in the head space of the storage vessel may lie in the flammable/explosive range and hence may be flammable.  
Refer to section 15 for any additional specific legislation covering the packaging and storage of this product.

Packaging material : Suitable material: For container and container linings, use mild steel or aluminium., Aluminium may also be used for applications where it does not present an unnecessary fire hazard., Examples of suitable materials are: high density polyethylene (HDPE), polypropylene (PP), and Viton (FKM), which have been specifically tested for compatibility with this product., For container linings, use amine-adduct cured epoxy paint., For seals and gaskets use: graphite, PTFE, Viton A, Viton B.  
Unsuitable material: Some synthetic materials may be unsuitable for containers or container linings depending on the material specification and intended use. Examples of materials to avoid are: natural rubber (NR), nitrile rubber (NBR), ethylene propylene rubber (EPDM), polymethyl methacrylate (PMMA), polystyrene, polyvinyl chloride (PVC), polyisobutylene., However, some may be suitable for glove materials.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
isopentane	78-78-4	VLE-PPT	600 ppm	NOM-010-STPS-2014
pentane	109-66-0	VLE-PPT	600 ppm	NOM-010-STPS-2014
n-Hexane	110-54-3	VLE-PPT	50 ppm	NOM-010-STPS-2014



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toluene	108-88-3	VLE-PPT	20 ppm	NOM-010-STPS-2014
cyclohexane	110-82-7	VLE-PPT	100 ppm	NOM-010-STPS-2014
benzene	71-43-2	TWA	0.5 ppm 1.6 mg/m <sup>3</sup>	Shell Internal Standard (SIS) for 8-12 hour TWA.
benzene		STEL	2.5 ppm 8 mg/m <sup>3</sup>	Shell Internal Standard (SIS) for 15 min (STEL)
benzene		VLE-PPT	0.5 ppm	NOM-010-STPS-2014
benzene		VLE-CT	2.5 ppm	NOM-010-STPS-2014
Ethylbenzene	100-41-4	VLE-PPT	20 ppm	NOM-010-STPS-2014
cumene	98-82-8	VLE-PPT	50 ppm	NOM-010-STPS-2014
Naphthalene	91-20-3	VLE-PPT	10 ppm	NOM-010-STPS-2014
Naphthalene		VLE-CT	15 ppm	NOM-010-STPS-2014

### Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
toluene	108-88-3	o-Cresol	Urine	End of shift	0.5 mg/l	MX BEI
		hippuric acid	Urine	End of shift	1.6 g/g creatinine	MX BEI
		Toluene	Blood	Prior to the last shift of the work week	0.05 mg/l	MX BEI
benzene	71-43-2	S-phenyl-mercapturic acid	Urine	End of shift	25 µg/g creatinine	MX BEI
		t,t-muconic acid	Urine	End of shift	500 µg/g creatinine	MX BEI
Ethylbenzene	100-41-4	Sum of Mandelic acid plus phenylglyoxylic acid	Urine	End of shift at end of work-week	0.7 g/g creatinine	MX BEI

### Monitoring Methods

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure con-

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trols. For some substances biological monitoring may also be appropriate. Validated exposure measurement methods should be applied by a competent person and samples analysed by an accredited laboratory. Examples of sources of recommended exposure measurement methods are given below or contact the supplier. Further national methods may be available. National Institute of Occupational Safety and Health (NIOSH), USA: Manual of Analytical Methods <http://www.cdc.gov/niosh/> Occupational Safety and Health Administration (OSHA), USA: Sampling and Analytical Methods <http://www.osha.gov/> Health and Safety Executive (HSE), UK: Methods for the Determination of Hazardous Substances <http://www.hse.gov.uk/> Institut für Arbeitsschutz Deutschen Gesetzlichen Unfallversicherung (IFA) , Germany <http://www.dguv.de/inhalt/index.jsp> L'Institut National de Recherche et de Sécurité, (INRS), France <http://www.inrs.fr/accueil>

**Engineering measures** : The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include:  
Use sealed systems as far as possible.  
Adequate ventilation to control airborne concentrations below the exposure guidelines/limits.  
Local exhaust ventilation is recommended.  
Eye washes and showers for emergency use.  
Firewater monitors and deluge systems are recommended.

### General Information:

Consider technical advances and process upgrades (including automation) for the elimination of releases. Minimise exposure using measures such as closed systems, dedicated facilities and suitable general/local exhaust ventilation. Drain down systems and clear transfer lines prior to breaking containment. Clean/flush equipment, where possible, prior to maintenance. Where there is potential for exposure: restrict access to authorised persons; provide specific activity training to operators to minimise exposures; wear suitable gloves and coveralls to prevent skin contamination; wear respiratory protection when there is potential for inhalation; clear up spills immediately and dispose of wastes safely. Ensure safe systems of work or equivalent arrangements are in place to manage risks. Regularly inspect, test and maintain all control measures. Consider the need for risk based health surveillance.

### Personal protective equipment

Respiratory protection : If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers.

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Where air-filtering respirators are unsuitable (e.g. airborne concentrations are high, risk of oxygen deficiency, confined space) use appropriate positive pressure breathing apparatus.

All respiratory protection equipment and use must be in accordance with local regulations.

If air-filtering respirators are suitable for conditions of use: Select a filter suitable for organic gases and vapours [boiling point >65 °C (149 °F)].

In areas where hydrogen sulphide vapours may accumulate, a positive-pressure air-supplied respirator is advised.

Hand protection  
Remarks

: Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection. PVC. Longer term protection: Nitrile rubber. Incidental contact/Splash protection: Neoprene rubber. For continuous contact we recommend gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes where suitable gloves can be identified. For short-term/splash protection we recommend the same, but recognize that suitable gloves offering this level of protection may not be available and in this case a lower breakthrough time maybe acceptable so long as appropriate maintenance and replacement regimes are followed. Glove thickness is not a good predictor of glove resistance to a chemical as it is dependent on the exact composition of the glove material. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced.

Eye protection

: Wear goggles for use against liquids and gas.

Skin and body protection

: Wear chemical resistant gloves/gauntlets, boots, and apron.

Protective measures

: Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

### Environmental exposure controls

General advice

: Local guidelines on emission limits for volatile substances must be observed for the discharge of exhaust air containing vapour.  
Information on accidental release measures are to be found in section 6.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

: liquid

Colour

: Brown to black

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Odour : Potential smell of rotten eggs and sulphur.  
Hydrocarbon, Mercaptan

Odour Threshold : Data not available

pH : Not applicable

Freezing point : Data not available

Boiling point/boiling range : 27 - 199 °C / 81 - 390 °F

Flash point : -43 °C / -45 °F

Evaporation rate : > 1  
Method: ASTM D 3539, nBuAc=1

Flammability (solid, gas) : Not applicable

Upper explosion limit / upper flammability limit : 7.6 %(V)

Lower explosion limit / Lower flammability limit : 1.4 %(V)

Vapour pressure : Data not available

Relative vapour density : > 3.5  
(Air = 1.0)

Relative density : 0.65 - 0.72

Density : 0.470 - 0.870 g/cm<sup>3</sup> (15 °C / 59 °F)

Solubility(ies)  
Water solubility : Data not available

Solubility in other solvents : Data not available

Partition coefficient: n-octanol/water : Pow: 2.1 - 6

Auto-ignition temperature : > 350 °C / 662 °F

Decomposition temperature : Data not available

Viscosity  
Viscosity, dynamic : Data not available

Viscosity, kinematic : < 7 mm<sup>2</sup>/s (40 °C / 104 °F)

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Explosive properties	:	NOT CLASS: Not classified
Oxidizing properties	:	Not applicable
Surface tension	:	Data not available
Conductivity	:	Low conductivity: < 100 pS/m, The conductivity of this material makes it a static accumulator., A liquid is typically considered nonconductive if its conductivity is below 100 pS/m and is considered semi-conductive if its conductivity is below 10,000 pS/m., Whether a liquid is nonconductive or semiconductive, the precautions are the same., A number of factors, for example liquid temperature, presence of contaminants, and anti-static additives can greatly influence the conductivity of a liquid
Molecular weight	:	Data not available

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### SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Oxidises on contact with air.
Chemical stability	:	Stable under normal conditions of use.
Possibility of hazardous reactions	:	No hazardous reaction is expected when handled and stored according to provisions
Conditions to avoid	:	Avoid heat, sparks, open flames and other ignition sources.
Incompatible materials	:	Strong oxidising agents.
Hazardous decomposition products	:	Hazardous decomposition products are not expected to form during normal storage. Thermal decomposition is highly dependent on conditions. A complex mixture of airborne solids, liquids and gases including carbon monoxide, carbon dioxide, sulphur oxides and unidentified organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.

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### SECTION 11. TOXICOLOGICAL INFORMATION

Basis for assessment	:	Information given is based on data on the components and the toxicology of similar products. Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s).
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#### Information on likely routes of exposure

Exposure may occur via inhalation, ingestion, skin absorption, skin or eye contact, and accidental ingestion.

#### Acute toxicity

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### **Product:**

Acute oral toxicity : LD 50 (Rat): > 5,000 mg/kg  
Remarks: Low toxicity:

Remarks: Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

Acute inhalation toxicity : LC 50 (Rat): > 5 mg/l  
Exposure time: 4 h  
Remarks: Low toxicity by inhalation.  
High concentrations may cause central nervous system depression resulting in headaches, dizziness and nausea; continued inhalation may result in unconsciousness and/or death.

Acute dermal toxicity : (Rabbit): Remarks: Low toxicity:  
LD50 >2000 mg/kg

Acute toxicity (other routes of administration) : Remarks: Irritating to respiratory system.

### **Skin corrosion/irritation**

#### **Product:**

Remarks: Irritating to skin.

### **Serious eye damage/eye irritation**

#### **Product:**

Remarks: Irritating to eyes. (Hydrogen Sulfide), Based on available data, the classification criteria are not met.

### **Respiratory or skin sensitisation**

#### **Product:**

Test Type: Skin sensitisation

Remarks: Not a sensitiser.

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

Test Type: Respiratory sensitisation

Remarks: Not a sensitiser.

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

### **Germ cell mutagenicity**

#### **Product:**

: Remarks: Contains Benzene, CAS # 71-43-2., May cause heritable genetic damage

Remarks: Mutagenicity studies on gasoline and gasoline blending streams have shown predominantly negative results.

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### Carcinogenicity

#### Product:

Remarks: Contains Benzene, CAS # 71-43-2., Known human carcinogen.

Remarks: May cause leukaemia (AML - acute myelogenous leukaemia).

Remarks: Inhalation exposure to mice causes liver tumours, which are not considered relevant to humans.

#### IARC

Group 1: Carcinogenic to humans

benzene 71-43-2

Group 2B: Possibly carcinogenic to humans

Natural gas condensates (petroleum) 64741-47-5

Ethylbenzene 100-41-4

cumene 98-82-8

Naphthalene 91-20-3

#### OSHA

OSHA specifically regulated carcinogen

benzene 71-43-2

#### NTP

Known to be human carcinogen

benzene 71-43-2

Reasonably anticipated to be a human carcinogen

cumene 98-82-8

Naphthalene 91-20-3

### Reproductive toxicity

#### Product:

:

Remarks: Causes foetotoxicity at doses which are maternally toxic.

Remarks: May impair fertility at doses which produce other toxic effects.

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Remarks: Many case studies involving abuse during pregnancy indicate that toluene can cause birth defects, growth retardation and learning difficulties.

### STOT - single exposure

#### Product:

Remarks: High concentrations may cause central nervous system depression resulting in headaches, dizziness and nausea; continued inhalation may result in unconsciousness and/or death.

Remarks: Inhalation of vapours or mists cause irritation to the respiratory system. (Hydrogen Sulfide)

### STOT - repeated exposure

#### Product:

Remarks: Kidney: caused kidney effects in male rats which are not considered relevant to humans, Blood-forming organs: repeated exposure affects the bone marrow.

### Aspiration toxicity

#### Product:

Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

### Further information

#### Product:

Remarks: Classifications by other authorities under varying regulatory frameworks may exist.

Remarks: H<sub>2</sub>S has a broad range of effects dependent on the airborne concentration and length of exposure: 0.02 ppm odour threshold, smell of rotten eggs; 10 ppm eye and respiratory tract irritation; 100 ppm coughing, headache, dizziness, nausea, eye irritation, loss of sense of smell in minutes; 200 ppm potential for pulmonary oedema after >20-30 minutes; 500 ppm loss of consciousness after short exposures, potential for respiratory arrest; >1000ppm immediate loss of consciousness, may lead rapidly to death, prompt cardiopulmonary resuscitation may be required. Do not depend on sense of smell for warning. H<sub>2</sub>S causes rapid olfactory fatigue (deadens sense of smell). There is no evidence that H<sub>2</sub>S will accumulate in the body tissue after repeated exposure.

Remarks: Contains Benzene, CAS # 71-43-2., May cause MDS (Myelodysplastic Syndrome).

## SECTION 12. ECOTOXICOLOGICAL INFORMATION

Basis for assessment : Ecotoxicological data have not been determined specifically for this product.  
Information given is based on a knowledge of the components and the ecotoxicology of similar products.  
Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual com-



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ponent(s).

### Ecotoxicity

#### Product:

- Toxicity to fish (Acute toxicity) : Remarks: LL/EL/IL50 > 1 <= 10 mg/l  
Toxic
- Toxicity to daphnia and other aquatic invertebrates (Acute toxicity) : Remarks: LL/EL/IL50 > 1 <= 10 mg/l  
Toxic
- Toxicity to algae (Acute toxicity) : Remarks: LL/EL/IL50 > 1 <= 10 mg/l  
Toxic
- Toxicity to fish (Chronic toxicity) : Remarks: NOEC/NOEL > 1.0 - <= 10 mg/l
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: NOEC/NOEL > 1.0 - <= 10 mg/l
- Toxicity to microorganisms (Acute toxicity) : Remarks: LL/EL/IL50 >10 <= 100 mg/l  
Harmful

### Persistence and degradability

#### Product:

- Biodegradability : Remarks: Readily biodegradable.  
Oxidises rapidly by photo-chemical reactions in air.

### Bioaccumulative potential

#### Product:

- Bioaccumulation : Remarks: Contains constituents with the potential to bioaccumulate.

### Mobility in soil

#### Product:

- Mobility : Remarks: If the product enters soil, one or more constituents will or may be mobile and may contaminate groundwater.  
Floats on water.

### Other adverse effects

#### Product:

- Additional ecological information : Films formed on water may affect oxygen transfer and damage organisms.

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### SECTION 13. INFORMATION ON PRODUCT DISPOSAL

#### Disposal methods

Waste from residues : Recover or recycle if possible.  
It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations.  
Waste arising from a spillage or tank cleaning should be disposed of in accordance with prevailing regulations, preferably to a recognised collector or contractor. The competence of the collector or contractor should be established beforehand.  
Do not dispose into the environment, in drains or in water courses  
Do not dispose of tank water bottoms by allowing them to drain into the ground.

Contaminated packaging : Drain container thoroughly.  
After draining, vent in a safe place away from sparks and fire.  
Residues may cause an explosion hazard.  
Do not puncture, cut, or weld uncleaned drums.  
Send to drum recoverer or metal reclaimer.  
Do not pollute the soil, water or environment with the waste container.

#### Local legislation

Remarks : Disposal should be in accordance with applicable regional, national, and local laws and regulations.  
Local regulations may be more stringent than regional or national requirements and must be complied with.

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### SECTION 14. TRANSPORT INFORMATION

#### National Regulations

#### International Regulations

##### IATA-DGR

UN/ID No. : UN 1268  
Proper shipping name : Petroleum distillates, n.o.s.  
Class : 3  
Packing group : I  
Labels : 3

##### IMDG-Code

UN number : UN 1268  
Proper shipping name : PETROLEUM DISTILLATES, N.O.S.  
(Natural gas condensates (petroleum))

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Class	: 3
Packing group	: I
Labels	: 3
Marine pollutant	: yes

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

Not applicable for product as supplied. MARPOL Annex 1 rules apply for bulk shipments by sea.

### Special precautions for user

Remarks	: Special Precautions: Refer to Chapter 7, Handling & Storage, for special precautions which a user needs to be aware of or needs to comply with in connection with transport.
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Additional Information	: MARPOL Annex 1 rules apply for bulk shipments by sea.
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## SECTION 15. REGULATORY INFORMATION

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

#### Other regulations:

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

#### The components of this product are reported in the following inventories:

EINECS/ELINCS/EC	: All components listed or polymer exempt.
AIIC	: All components listed or polymer exempt.
DSL	: All components listed or polymer exempt.
PICCS	: All components listed or polymer exempt.

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## SECTION 16. OTHER INFORMATION

### Further information

NFPA Rating (Health, Fire, Reactivity) 2, 3, 0

### Full text of other abbreviations

MX BEI	: Official Mexican Norm NOM-047-SSA1-2011, Environmental Health - Biological exposure indices for workers occupationally exposed to chemical agents
NOM-010-STPS-2014	: Mexico. Norm NOM-010-STPS-2014 on Chemicals Polluting the Work Environment - Identification, Assessment and Control - Appendix 1 Occupational Exposure Limits
NOM-010-STPS-2014 / VLE-	: Time weighted average limit value

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PPT

NOM-010-STPS-2014 / VLE- : Short term exposure limit value

CT

Abbreviations and Acronyms : The standard abbreviations and acronyms used in this document can be looked up in reference literature (e.g. scientific dictionaries) and/or websites.

ACGIH = American Conference of Governmental Industrial Hygienists

ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road

AICS = Australian Inventory of Chemical Substances

ASTM = American Society for Testing and Materials

BEL = Biological exposure limits

BTEX = Benzene, Toluene, Ethylbenzene, Xylenes

CAS = Chemical Abstracts Service

CEFIC = European Chemical Industry Council

CLP = Classification Packaging and Labelling

COC = Cleveland Open-Cup

DIN = Deutsches Institut für Normung

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

DSL = Canada Domestic Substance List

EC = European Commission

EC50 = Effective Concentration fifty

ECETOC = European Center on Ecotoxicology and Toxicology Of Chemicals

ECHA = European Chemicals Agency

EINECS = The European Inventory of Existing Commercial Chemical Substances

EL50 = Effective Loading fifty

ENCS = Japanese Existing and New Chemical Substances Inventory

EWC = European Waste Code

GHS = Globally Harmonised System of Classification and Labelling of Chemicals

IARC = International Agency for Research on Cancer

IATA = International Air Transport Association

IC50 = Inhibitory Concentration fifty

IL50 = Inhibitory Level fifty

IMDG = International Maritime Dangerous Goods

INV = Chinese Chemicals Inventory

IP346 = Institute of Petroleum test method N° 346 for the determination of polycyclic aromatics DMSO-extractables

KECI = Korea Existing Chemicals Inventory

LC50 = Lethal Concentration fifty

LD50 = Lethal Dose fifty per cent.

LL/EL/IL = Lethal Loading/Effective Loading/Inhibitory loading

LL50 = Lethal Loading fifty

MARPOL = International Convention for the Prevention of Pollution From Ships

NOEC/NOEL = No Observed Effect Concentration / No Observed Effect Level

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OE\_HPVS = Occupational Exposure - High Production Volume  
PBT = Persistent, Bioaccumulative and Toxic  
PICCS = Philippine Inventory of Chemicals and Chemical Substances  
PNEC = Predicted No Effect Concentration  
REACH = Registration Evaluation And Authorisation Of Chemicals  
RID = Regulations Relating to International Carriage of Dangerous Goods by Rail  
SKIN\_DES = Skin Designation  
STEL = Short term exposure limit  
TRA = Targeted Risk Assessment  
TSCA = US Toxic Substances Control Act  
TWA = Time-Weighted Average  
vPvB = very Persistent and very Bioaccumulative

A vertical bar (|) in the left margin indicates an amendment from the previous version.  
This product is intended for use in closed systems only.

**Due to the conversion of this product to GHS classification and labelling, there has been a significant change to the nature of the information presented in chapter 2.**

Sources of key data used to compile the Safety Data Sheet : The quoted data are from, but not limited to, one or more sources of information (e.g. toxicological data from Shell Health Services, material suppliers' data, CONCAWE, EU IUCLID data base, EC 1272 regulation, etc).

Revision Date : 06/22/2018

The information is considered as correct, but not exhaustive, and will be used only as a guide, which is based in the current knowledge of the substance or mixture, and is applicable to proper safety precautions for the product.

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.

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