Mexican official standard NOM-018-STPS-2015

## **NGL** - Field Grade Butane (Non Odorized)

Version Revision Date: SDS Number: Print Date: 09/05/2022

2.1 06/26/2018 800010025833 Date of last issue: 22.06.2018

Date of first issue: 19.01.2017

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

Product name : NGL - Field Grade Butane (Non Odorized)

Product code : X3523

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 : Used as a domestic, commercial, industrial and automotive

fuel, a feedstock in chemical processes.

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 sup-

plier.

#### **SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification** 

Flammable gases : Category 1

Gases under pressure : Liquefied gas

**GHS label elements** 

Hazard pictograms :





Signal word : Danger

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Hazard statements : PHYSICAL HAZARDS:

H220 Extremely flammable gas.

H280 Contains gas under pressure; may explode if heated.

**HEALTH HAZARDS:** 

Not classified as a health hazard under GHS criteria.

**ENVIRONMENTAL HAZARDS:** 

Not classified as a physical hazard under GHS criteria.

Precautionary statements

#### Prevention:

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames

and other ignition sources. No smoking.

P243 Take action to prevent static discharges.

#### Response:

P377 Leaking gas fire: Do not extinguish, unless leak can be

stopped safely.

P381 In case of leakage, eliminate all ignition sources.

#### Storage:

P410 + P403 Protect from sunlight. Store in a well-ventilated

place.

#### Disposal:

No precautionary phrases.

#### Other hazards which do not result in classification

Electrostatic charges may be generated during pumping. Electrostatic discharge may cause fire. Vapours are heavier than air. Vapours may travel across the ground and reach remote ignition sources causing a flashback fire danger.

High gas concentrations will displace available air; unconsciousness and death may occur suddenly from lack of oxygen.

### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### **Hazardous components**

Chemical name	CAS-No.	Concentration (% w/w)
isobutane	75-28-5	20 -60
butane	106-97-8	20 -60
propane	74-98-6	<= 10
Aliphatic hydrocarbons, C5 and greater	68647-60-9	<= 10

#### **SECTION 4. FIRST-AID MEASURES**

General advice : Not expected to be a health hazard when used under normal

conditions.

If inhaled : Call emergency number for your location / facility.

Remove 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,

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> or unresponsive, give 100% oxygen with rescue breathing or Cardio-Pulmonary Resuscitation as required and transport to

the nearest medical facility.

Remove contaminated clothing. Flush exposed area with wa-In case of skin contact

> ter and follow by washing with soap if available. If persistent irritation occurs, obtain medical attention. In the event of frostbite, slowly warm the exposed area by

rinsing with warm water.

Transport to the nearest medical facility for additional treat-

ment.

In case of eye contact Flush eye with copious quantities of water.

Remove contact lenses, if present and easy to do. Continue

If persistent irritation occurs, obtain medical attention. In the event of frostbite, slowly warm the exposed area by

rinsing with warm water.

Transport to the nearest medical facility for additional treat-

ment.

If swallowed In the unlikely event of ingestion, obtain medical attention

immediately.

Most important symptoms and effects, both acute and

delayed

Breathing of high vapour concentrations may cause central nervous system (CNS) depression resulting in dizziness, light-

headedness, headache and nausea.

Rapid release of gases which are liquids under pressure may cause frost burns of exposed tissues (skin, eye) due to evapo-

rative cooling.

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

IMMEDIATE TREATMENT IS EXTREMELY IMPORTANT!

Artificial respiration and/or oxygen may be necessary. Call a doctor or poison control center for guidance.

Treat symptomatically.

## **SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media : Shut off supply. If not possible and no risk to surroundings, let

the fire burn itself out.

Dry chemical

Carbon dioxide (CO2)

Keep containers and surroundings cool with water spray. Large fires should only be fought by properly trained fire fight-

ers.

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.

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Specific hazards during fire-

fighting

Hazardous combustion products may include:

Carbon monoxide may be evolved if incomplete combustion

occurs.

Unidentified organic and inorganic compounds.

Sustained fire attack on vessels may result in a Boiling Liquid

Expanding Vapor Explosion (BLEVE).

Contents are under pressure and can explode when exposed

to heat or flames.

The vapour is heavier than air, spreads along the ground and

distant ignition is possible.

Specific extinguishing meth-

ods

Clear fire area of all non-emergency personnel.

Keep adjacent containers cool by spraying with water. If possible remove containers from the danger zone.

If the fire cannot be extinguished the only course of action is

to evacuate immediately.

Special protective equipment :

for firefighters

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).

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures

Shut off leaks, if possible without personal risks. Remove all possible sources of ignition in the surrounding area and evacuate all personnel. Attempt to disperse the gas or to direct its flow to a safe location for example by using fog sprays. Take precautionary measures against static discharge. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Monitor area with combustible gas meter.

Vapour may form an explosive mixture with air.

Test atmosphere for flammable gas concentrations to ensure safe working conditions before personnel are allowed to enter

the area.

Notify authorities if any exposure to the general public or the

environment occurs or is likely to occur.

Vapour may form an explosive mixture with air.

Environmental precautions

Use appropriate containment to avoid environmental contami-

nation.

Risk of explosion. Inform the emergency services if product

enters surface water drains.

Methods and materials for containment and cleaning up

Allow to evaporate.

Attempt to disperse the gas or to direct its flow to a safe loca-

tion, for example by using fog sprays.

Evacuate the area of all non-essential personnel.

Ventilate contaminated area thoroughly. Avoid contact with skin, eyes and clothing.

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Additional advice : For guidance on selection of personal protective equipment

see Chapter 8 of this Safety Data Sheet.

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.

#### **SECTION 7. HANDLING AND STORAGE**

Technical measures : Avoid breathing of or direct contact with material. Only use in

well ventilated areas. Wash thoroughly after handling. For guidance on selection of personal protective equipment see

Chapter 8 of this Safety Data Sheet.

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.

Air-dry contaminated clothing in a well-ventilated area before

laundering.

Use local exhaust ventilation if there is risk of inhalation of

vapours, mists or aerosols.

Take precautionary measures against static discharges.

Precautions that must be taken to ensure safe han-

dling

This product can create a low temperature exposure hazard when released as a liquid.

Extinguish any naked flames. Do not smoke. Remove ignition

sources. Avoid sparks.

Avoid prolonged or repeated contact with skin.

Electrostatic charges may be generated during pumping. Elec-

trostatic discharge may cause fire.

Earth all equipment.

Use local exhaust ventilation if there is risk of inhalation of

vapours, mists or aerosols.

This product is intended for use in closed systems only.

Ensure that all local regulations regarding handling and stor-

age facilities are followed.

Avoidance of contact : Strong oxidising agents.

Product Transfer : Do not use compressed air for filling discharge or handling.

Electrostatic charges may be generated during pumping. Electrostatic discharge may cause fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Delivery lines may become cold enough to present a cold burns haz-

ard.

Further information on stor-

age stability

Store only in purpose-designed, appropriately labelled pres-

sure vessels or cylinders.

Must be stored in a well-ventilated area, away from sunlight,

ignition sources and other sources of heat.

Do not store near cylinders containing compressed oxygen or

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other strong oxidizers.

Refer to section 15 for any additional specific legislation cov-

ering the packaging and storage of this product.

Packaging material : Suitable material: For containers and container linings, use

materials specifically approved for use with this product., Examples of suitable materials are: PA-11, PEEK, PVDF, PTFE, GRE (Epoxy), GRVE (vinyl ester), Viton (FKM), type F and

GB, Neoprene (CR).

Unsuitable material: Some forms of cast iron., Examples of materials to avoid are: ABS, polymethyl methacrylate (PMMA), polyethylene (PE / HDPE), polypropylene (PP), PVC, natural rubber (NR), Nitrile (NBR) ethylene propylene rubber (EPDM), Butyl (IIR), Hypalon (CSM), polystyrene, polyvinyl chloride (PVC), polyisobutylene., For containers and container linings, aluminium should not be used if there is a

risk of caustic contamination of the product.

Container Advice : Containers, even those that have been emptied, can contain

explosive vapours. Do not cut, drill, grind, weld or perform

similar operations on or near containers.

### **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
isobutane	75-28-5	VLE-PPT	1,000 ppm	NOM-010- STPS-2014
butane	106-97-8	LMPE-PPT	800 ppm 1,900 mg/m3	MX OEL
butane		VLE-PPT	1,000 ppm	NOM-010- STPS-2014
propane	74-98-6	VLE-PPT	1,000 ppm	NOM-010- STPS-2014

#### **Biological occupational exposure limits**

No biological limit allocated.

## **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 controls. 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/

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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 Securité, (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 explosion-proof ventilation to control airborne concentrations below the exposure guidelines/limits. Local exhaust ventilation is recommended.

#### General Information:

Always observe good personal hygiene measures, such as washing hands after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

Define procedures for safe handling and maintenance of controls

Educate and train workers in the hazards and control measures relevant to normal activities associated with this product.

Ensure appropriate selection, testing and maintenance of equipment used to control exposure, e.g. personal protective equipment, local exhaust ventilation.

Drain down system prior to equipment break-in or maintenance.

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

Where air-filtering respirators are suitable, select an appropriate combination of mask and filter.

Select a filter suitable for organic gases and vapours [Type AX boiling point ≤65°C (149°F)].

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Hand protection Remarks

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. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended. 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. Neoprene rubber. Nitrile rubber. If contact with liquefied product is possible or anticipated, gloves should be

thermally insulated to prevent cold burns.

Eye protection : Wear goggles for use against liquids and gas, combined with

face shield with chin guard.

Skin and body protection : Chemical and cold resistant gloves/gauntlets, boots, and

apron.

Protective measures : Personal protective equipment (PPE) should meet recom-

mended national standards. Check with PPE suppliers.

Thermal hazards : When handling cold material that can cause frost burns, wear

heat resistant gloves, safety hat and visor, cold resistant overalls (with cuffs over gloves and legs over boots) and heavy

duty boots e.g. leather for cold resistance.

#### **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 : compressed liquefied gas

Colour : colourless

Odour : odourless

Odour Threshold : Data not available

pH : Not applicable

Melting point/freezing point : ca. -138 °C / -216 °F

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Initial boiling point and boiling : Typical -1 °C / 30 °F

range

ca. -60 °C / -76 °F Flash point

Method: Tagliabue Closed Cup

Evaporation rate Data not available

Flammability (solid, gas) Extremely flammable.

Upper explosion limit / upper

flammability limit

8.5 %(V)

Lower explosion limit / Lower : Typical 1.9 %(V)

flammability limit

Vapour pressure : > 2,430 hPa (25 °C / 77 °F)

Relative vapour density

Relative density 0.6 (25 °C / 77 °F)

Density estimated value(s) 599 kg/m3

Solubility(ies)

Water solubility slight

Solubility in other solvents : Data not available

Partition coefficient: n-

octanol/water

log Pow: 2.8

Auto-ignition temperature Typical 287 - 537 °C / 549 - 999 °F

287 °C / 549 °F

Decomposition temperature Data not available

Viscosity

Viscosity, dynamic Data not available

Viscosity, kinematic Data not available

Explosive properties Classification Code: Not classified

Oxidizing properties Data not available

Surface tension Data not available

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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 antistatic additives can greatly influence the conductivity of a liq-

uid

Molecular weight : 58.1 g/mol

### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No, product will not become self-reactive.

Chemical stability : Stable.

Possibility of hazardous reac-

tions

No hazardous reaction is expected when handled and stored

according to provisions

Conditions to avoid : Avoid heat, sparks, open flames and other ignition sources.

Prevent vapour accumulation.

In certain circumstances product can ignite due to static elec-

tricity.

Incompatible materials : Strong oxidising agents.

Hazardous decomposition

products

Hazardous decomposition products are not expected to form

during normal storage.

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

Basis for assessment : Information given is based on product testing.

### Information on likely routes of exposure

Inhalation is the primary route of exposure although exposure may occur through skin or eye contact.

### **Acute toxicity**

**Product:** 

Acute oral toxicity : Remarks: Not applicable

Acute inhalation toxicity : LC 50 (Rat): > 20000 ppmV

Exposure time: 4 h
Remarks: Low toxicity:

Acute dermal toxicity : Remarks: Not applicable

Acute toxicity (other routes of

administration)

Remarks: Inhalation of vapours or mists may cause irritation

to the respiratory system.

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#### Skin corrosion/irritation

#### **Product:**

Remarks: Not irritating to skin.

## Serious eye damage/eye irritation

#### **Product:**

Remarks: Essentially non-irritating to eyes.

### Respiratory or skin sensitisation

## **Product:**

Remarks: Not a sensitiser.

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

## Germ cell mutagenicity

#### **Product:**

: Remarks: Non mutagenic, Based on available data, the classification criteria are not met.

#### Carcinogenicity

#### **Product:**

Remarks: Not a carcinogen., Based on available data, the classification criteria are not met.

IARC No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

OSHA No component of this product present at levels greater than or

equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

### Reproductive toxicity

## Product:

Remarks: Not a developmental toxicant., Does not impair fertility., Based on available data, the classification criteria are

not met.

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## STOT - single exposure

### **Product:**

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

#### STOT - repeated exposure

### **Product:**

Remarks: Low systemic toxicity on repeated exposure.

### **Aspiration toxicity**

#### **Product:**

Not an aspiration hazard.

#### **Further information**

#### **Product:**

Remarks: Rapid release of gases which are liquids under pressure may cause frost burns of exposed tissues (skin, eye) due to evaporative cooling., High gas concentrations will displace available air; unconsciousness and death may occur suddenly from lack of oxygen., Exposure to very high concentrations of similar materials has been associated with irregular heart rhythms and cardiac arrest.

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

#### **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.

#### **Ecotoxicity**

#### **Product:**

Toxicity to fish (Acute toxici-

ty)

Remarks: LL/EL/IL50 > 100 mg/l

Practically non toxic:

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

Toxicity to daphnia and other :

aquatic invertebrates (Acute

toxicity)

Remarks: LL/EL/IL50 > 100 mg/l

Practically non toxic:

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

Toxicity to algae (Acute tox-

icity)

Remarks: LL/EL/IL50 > 100 mg/l

Practically non toxic:

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

Toxicity to fish (Chronic tox-

icity)

Remarks: Data not available

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

Remarks: Data not available

Toxicity to microorganisms

(Acute toxicity)

Remarks: LL/EL/IL50 > 100 mg/l

Practically non toxic:

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

### Persistence and degradability

**Product:** 

Biodegradability Remarks: Inherently biodegradable.

Oxidises rapidly by photo-chemical reactions in air.

## Bioaccumulative potential

**Product:** 

Bioaccumulation Remarks: Does not bioaccumulate significantly.

Mobility in soil

**Product:** 

Mobility Remarks: Evaporates extremely rapidly from water or soil

surfaces.

Disperses rapidly in air.

#### Other adverse effects

**Product:** 

Additional ecological infor-

mation

In view of the high rate of loss from solution, the product is

unlikely to pose a significant hazard to aquatic life.

## **SECTION 13. INFORMATION ON PRODUCT DISPOSAL**

**Disposal methods** 

Waste from residues 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 meth-

ods 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

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courses

Given the nature and uses of this product, the need for disposal seldom arises. If necessary, dispose by controlled combustion in purpose-designed equipment. If this is not possible,

contact the supplier.

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 pollute the soil, water or environment with the waste

container.

Return part-used or empty cylinders to the supplier. For tanks seek specialist advice from suppliers.

Dispose in accordance with prevailing regulations, preferably to a recognized collector or contractor. The competence of the collector or contractor should be established beforehand.

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 na-

tional requirements and must be complied with.

#### **SECTION 14. TRANSPORT INFORMATION**

## **National Regulations**

## **International Regulations**

IATA-DGR

UN/ID No. : UN 1075

Proper shipping name : PETROLEUM GASES, LIQUEFIED

Class : 2.1

Packing group : Not Assigned

Labels : 2.1

**IMDG-Code** 

UN number : UN 1075

Proper shipping name : PETROLEUM GASES, LIQUEFIED

Class : 2.

Packing group : Not Assigned

Labels : 2.1 Marine pollutant : no

### 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

Not applicable

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#### **SECTION 15. REGULATORY INFORMATION**

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

## 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:

PICCS : All components listed.

EINECS/ELINCS/EC : All components listed.

DSL : All components listed.

IECSC : All components listed.

AIIC : All components listed.

TSCA : All components listed.

ENCS : All components listed.

KECI : All components listed.

NZIoC : All components listed.

CH INV : All components listed.

## **SECTION 16. OTHER INFORMATION**

## **Further information**

NFPA Rating (Health, Fire, Reac- 1, 4, 0

tivity)

#### Full text of other abbreviations

MX OEL : Mexico. Occupational Exposure Limits

NOM-010-STPS-2014 : Mexico. Norm NOM-010-STPS-2014 on Chemicals Polluting

the Work Environment - Identification, Assessment and Con-

trol - Appendix 1 Occupational Exposure Limits

MX OEL / LMPE-PPT : Time weighted average

NOM-010-STPS-2014 / VLE- : Time weighted average limit value

PPT

Abbreviations and Acronyms : The standard abbreviations and acronyms used in this docu-

ment can be looked up in reference literature (e.g. scientific

dictionaries) and/or websites.

ACGIH = American Conference of Governmental Industrial

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 Date of last issue: 22.06.2018

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**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 fur 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

OE\_HPV = 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 Dan-

Mexican official standard NOM-018-STPS-2015

## **NGL** - Field Grade Butane (Non Odorized)

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gerous 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.

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 date base, EC 1272 regulation, etc).

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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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