	<b>SAFETY DATA SHEET</b> Prepared in compliance with the EU Regulation No 830/2015	Date of preparation: <b>04.03.2013</b>
		Update: <b>03.10.2018</b>
	<b>MIX HDC</b>	Version: <b>3.1 CLP</b>
		Page 1 from 7

## SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

### 1.1. Product Identifier

Product Name: **MIX HDC**

Synonyms: -

CAS No.: Not applicable - mixture

WE No.: Not applicable – mixture

Index No.: Not applicable

Registration No.: Not applicable – mixture

### 1.2. Relevant uses of the substance/mixture and uses advised against

Manufacture of substance, Distribution of substance, Formulation and (re)packing of substances and mixtures

Use in Coatings – Industrial, Lubricants – Industrial, Use as binders and release agents – Industrial, Polymer production – Industrial, Use in Coatings – Professional, Lubricants - Professional (Low Release), Lubricants - Professional (High Release), Use as binders and release agents – Professional, Agrochemical uses – Professional, Use as a fuel – Professional, Road and construction applications, Use in Coatings – Consumer, Lubricants - Consumer (Low Release), Lubricants - Consumer (High Release), Agrochemical uses – Consumer, Use as a fuel – Consumer.

### 1.3. Details of the supplier of the SAFETY DATA SHEET

Producer: **ORLEN Południe S.A.**

Address: Fabryczna 22, 32-540 Trzebinia

Tel/Fax: +48 24 201 00 00 / +48 24 367 74 14

E-Mail: [reach.poludnie@orlen.pl](mailto:reach.poludnie@orlen.pl) – Technology and Development Department

### 1.4. Emergency telephone number:

National Fire Brigade: 998 or 112 (mobile phone)

Ambulance: 999 or 112 (mobile phone)

## SECTION 2. HAZARDS IDENTIFICATION

### 2.1. CLASSIFICATION OF SUBSTANCE OR MIXTURE

Classification	according to Regulation (EC) No 1272/2008:
Hazards	
due to the physicochemical properties:	-
for human:	-
	Based on the L and N notes, the substance <b>is not classified as carcinogenic</b> because the full refining process is known. The content of DMSO extract <3% (according to IP 346).
for environment:	-

### 2.2. Label elements

No Label elements according to Regulation (EC) No 1272/2008.

Pictogram: -


Signal word: -

Hazard statements: -

Precautionary statements: -

### 2.3. Other hazards

Material does not meet the criteria for PBT or vPvB in accordance with REACH Annex XIII.

	<b>SAFETY DATA SHEET</b> Prepared in compliance with the EU Regulation No 830/2015	Date of preparation: 04.03.2013
		Update: 03.10.2018
	<b>MIX HDC</b>	Version: 3.1 CLP
		Page 2 from 7

### SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

#### 3.1. Substance

Not applicable.

#### 3.2. Mixture

MIX HDC is defined as a mixture of solid hydrocarbons.

All substances contained in the product MIX HDC are registered in accordance with REACH Regulation:

Substances are not classified according to CLP Regulation. DMSO < 3% (wg IP 346, notes N, L).

### SECTION 4. FIRST AID MEASURES

#### 4.1. Description of first aid measures

##### Inhalation:

Due to the low volatility of the product the risk of the inhalation is impossible, although possible in the case of an excessive overheating of the substance. Provide fresh air. If discomfort occurs, obtain medical attention.

##### Skin contact:

Wash contact areas with soap and water. If burned by contact with hot material, molten material adhering to skin should be cooled as quickly as possible with water, and see a physician for removal of adhering material and treatment of burn.

##### Eye contact:

Flush thoroughly with water for at least 15 minutes. Get medical assistance.

##### Ingestion:

Not expected to experience problems if swallowed. If discomfort occurs, obtain medical attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

When inhaled large amounts of superheated vapors of the product may have symptoms of irritation of the upper respiratory tract.

#### 4.3. Indication of any immediate medical attention and special treatment needed

The injured person needs fresh air and tranquility.

### SECTION 5. FIRE FIGHTING MEASURES

#### 5.1. Extinguishing media

**Suitable extinguishing media:** Use water fog, foam, dry chemical or carbon dioxide (CO<sub>2</sub>) to extinguish flames.

**Unsuitable extinguishing media:** Straight streams of water.

#### 5.2. Special hazards arising from the substance or mixture

Flash Point	min. 200°C
Self-ignition temperature	min. 250°C
Temperature class	T3
Fire hazard class	III

Flammable product after crossing the ignition temperature. The main product of combustion is carbon dioxide. When inadequate amounts of oxygen to the burned material combustion product is carbon monoxide.

#### 5.3. Advice for fire fighters

Evacuate area. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply. Fire-fighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personel.


### SECTION 6. ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal precaution, protective equipment and emergency procedures

Avoid contact with skin and eyes, use protective masks, protective clothing and footwear.

#### 6.2. Environmental precautions

Large Spills: Dyke far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways,

	<b>SAFETY DATA SHEET</b> Prepared in compliance with the EU Regulation No 830/2015	Date of preparation: 04.03.2013
		Update: 03.10.2018
	<b>MIX HDC</b>	Version: 3.1 CLP
		Page 3 from 7

sewers, basements or confined areas.

### 6.3. Methods and material for containment and cleaning up

Due to the high congealing point, both large and small leaks quickly freeze, which facilitates their disposal. Clean the affected area using available equipment, and place in a labeled container for further recovery or storage in a suitable place.

### 6.4. References to other sections

See section: 8 and 13 in this MSDS.

## SECTION 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling

W miejscu i podczas użytkowania substancji nie jeść, nie pić, nie palić tytoniu, unikać bezpośredniego kontaktu z substancją, unikać wdychania pyłów. During all operations with the product used clothing and personal protective equipment. Keep away from sources of ignition, heat and open flame. During using of substances do not eat, drink, do not smoke, avoid direct contact with the substance, avoid breathing dust.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Storing in solid form:

Storage facilities must be dry and cool. The mixture should be stored in properly labeled, tightly closed containers resistant to hydrocarbons. Avoid contact with oxidizing materials. Keep away from the elements and sources of ignition. Avoid temperatures above 40°C. Avoid contact with moisture and water.

#### Storing in liquide form:

The mixture should be kept at a temperature not higher than 80°C. Blank, heated tanks may contain flammable or explosive vapors. Tanks should be located away from sources of ignition and oxidizing materials, it is recommended in fire-extinguishing systems.

Avoid prolonged or repeated skin contact with the product or stained clothing. In case of contact with skin wash the affected area with plenty of soap and water. Do not breathe vapors.

### 7.3. Specific end uses

Manufacture of substance, Distribution of substance, Formulation and (re)packing of substances and mixtures

Use in Coatings – Industrial, Lubricants – Industrial, Use as binders and release agents – Industrial, Polymer production – Industrial, Use in Coatings – Professional, Lubricants - Professional (Low Release), Lubricants - Professional (High Release), Use as binders and release agents – Professional, Agrochemical uses – Professional, Use as a fuel – Professional, Road and construction applications, Use in Coatings – Consumer, Lubricants - Consumer (Low Release), Lubricants - Consumer (High Release), Agrochemical uses – Consumer, Use as a fuel – Consumer.

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1. Control Parameters

Solid paraffin – inhalable fraction :

Occupational Exposure Limits (mg/m<sup>3</sup>): 2 mg/m<sup>3</sup>

Moment Occupational Exposure Limits (mg/m<sup>3</sup>): -

DNEL<sub>worker</sub> (aspiration, long-term exposure): 5,4mg/m<sup>3</sup>/8h (aerosol)

DNEL<sub>consumer</sub> (aspiration, long-term exposure): 1,2mg/m<sup>3</sup>/24h (aerosol)


PNEC<sub>ptaki</sub> (orally): 9,33 mg/kg food

*Polish Regulation: Regulation of the Minister of Family, Labour and Social Policy of 12 June 2018 on the maximum permissible concentration and intensity of factors harmful to health in the working environment*

### 8.2. Exposure controls

8.2.1 Exposure control in the workplace.

While using the product, wash hands after each work connected with the mixture. While using the mixture, do not eat, do not drink and do not smoke.

	<b>SAFETY DATA SHEET</b> Prepared in compliance with the EU Regulation No 830/2015	Date of preparation: 04.03.2013
		Update: 03.10.2018
	<b>MIX HDC</b>	Version: 3.1 CLP
		Page 4 from 7

The personal protective equipment must fulfil requirements stipulated in the Regulation of the Minister of Economy of 28 December 2005 (OJ No 259, item 2173) and Directive 89/686/EC (as amended). The employer is obliged to provide personal protective equipment appropriate to the activities performed and fulfilling all the qualitative requirements, as well as to maintain and clean it.

**Protection of the airways** Avoid contact with vapours, in the case of normal use exposure by the inhalation route is unlikely. Use mechanical ventilation at work stations and in closed rooms and buildings.

**Hand protection** Protective gloves resistant to oil, resistant to temperature. It is advisable to change gloves on a regular basis and to replace them immediately if any signs of their wear, damage (rupture, piercing) or changes in appearance (colour, elasticity, shape) occur.

Selection of the class of resistance to penetration depends on the time of exposure to the factor and it should be selected in accordance with standard EN 374. Thickness of gloves' layer is specified by a manufacturer based on the penetration exposure class.

**Eye protection** Safety goggles, protective masks.

**Skin protection** Protective clothes resistant to oil

#### 8.2.2 Environmental controls

Prevent product from entering the soil, groundwater and sewage. In the event of leakage or, in the case of a solid product spillage, on an ongoing basis to remove a product that escaped into the environment.

The mixture is not classified according to EU Directive 1999/45/EWG and with Regulation (WE) nr 1272/2008 (CLP).

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

a) Appearance	: Below congealing point – solid, above congealing point - liquid, colour: from yellow to brown
b) Odour	: Typical for hydrocarbons
c) Odour threshold	: Data not available
d) pH	: ~ 7 (water solution)
e) Congealing Point	: min. 48°C
f) Boiling Point	: min. 300°C
g) Flash Point	: min. 200°C
h) Evaporation rate	: Not studied
i) Flammability	: Not classified as flammable
j) Upper/Lower Flammable Limits	: Not studied
k) Vapour Pressure	: negligible under normal conditions of use in 20°C, 0-20 Pa in 80°C
l) Vapour Density	: Not studied
m) Relative Density	: about 755 kg/m <sup>3</sup> in 100°C
n) Solubility	: in water - negligible
o) Partition coefficient (n-Octanol/Water Partition Coefficient)	: Not studied
p) Autoignition Temperature	: min. 250°C
q) Decomposition Temperature	: Not studied
r) Viscosity	: min. 6 mm <sup>2</sup> /s in 100°C
s) Explosive Properties	: Not applicable – not classified as explosive
t) Oxidizing Properties	: Not applicable – not classified as oxidized

### 9.2. Other information


None.

## SECTION 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

Mixture is not reactive.

### 10.2. Chemical stability

	<b>SAFETY DATA SHEET</b> Prepared in compliance with the EU Regulation No 830/2015	Date of preparation: 04.03.2013
		Update: 03.10.2018
	<b>MIX HDC</b>	Version: 3.1 CLP
		Page 5 from 7

Material is stable under normal conditions.

### 10.3. Possibility of hazardous reactions:

Not applicable

### 10.4. Conditions to avoid:

Excessive heat and fire. Avoid temperature above 80°C.

### 10.5. Incompatible materials:

Strong oxidisers.

### 10.6. Hazardous decomposition products:

Material does not decompose at ambient temperatures.

## SECTION 11 TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

**Acute toxicity:** not applicable

LD50 >5000 mg/kg (orally, rat)

LD50 >2000 mg/kg (skin, rat)

**Serious Eye Damage/Irritation:** not applicable

**Germ Cell Mutagenicity:** not applicable

**Carcinogenicity:** not applicable

NOAEL: 5700 mg/kg/day (orally)

NOAEL: 128 mg/kg/day (skin)

**Reproductive Toxicity:** not applicable

NOAEL: 1000 mg/kg/day (orally)

**Specific Target Organ Toxicity – Single Exposure:** not applicable

**Specific Target Organ Toxicity – Repeated Exposure:** not applicable

**Skin Corrosion/Irritation:** not applicable

NOAEL: 1500 mg/kg/day (orally)

NOAEL: 2000 mg/kg/day (skin)

**Aspiration:** not applicable

The mixture is not classified according to EU Directive 1999/45/EC and with Regulation (EC) nr 1272/2008 (CLP).

## SECTION 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity:

**Aquatic environment:**

Toxicity for fish: LC50 > 100mg/l/96h

Toxicity for daphne: EL50 > 10000mg/l

Toxicity for algae: NOEL ≥ 100 mg/L

### 12.2. Persistence and degradability

Limited degree of biodegradability.

### 12.3. Bioaccumulative potential

Not applicable.

### 12.4. Mobility in soil

Not applicable

### 12.5. Persistence, bioaccumulation and toxicity for substance

This product is not, or does not contain, a substance that is a PBT or a vPvB.


### 12.6. Other adverse effects

None.

## SECTION 13. DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

Waste code: **KO 05 01 99** – Wastes not otherwise specified

	<b>SAFETY DATA SHEET</b> Prepared in compliance with the EU Regulation No 830/2015	Date of preparation: <b>04.03.2013</b>
		Update: <b>03.10.2018</b>
	<b>MIX HDC</b>	Version: <b>3.1 CLP</b>
		Page 6 from 7

Do not dispose to sewage system. Prevent contamination of surface and ground waters. Consider reuse. Waste product must be recovered or utilised at authorised furnaces or waste recycling/neutralisation facilities, in accordance with the applicable regulations.

Recovery / recycling / utilisation of package waste should be performed according to the applicable regulations. CAUTION: Only completely emptied packages may be returned for recycling! Use services of authorised companies.

*Act of 14 December 2012 on waste (OJ No 2013 item 21).*

*Act of 13 June 2013 on packaging and packaging waste management (OJ No 2013 item 888)*

*Regulation of the Minister of the Environment of 9 December 2014 on the waste catalogue (OJ 2014, item 1923)*

## SECTION 14. TRANSPORT INFORMATION

<b>14.1. UN No.:</b>	Not applicable
<b>14.2. UN name</b>	Not applicable
<b>14.4. Package group</b>	Not applicable
<b>14.5. Environmental hazards</b>	Not applicable
<b>14.6. Special precautions for user:</b>	During loading, transportation and unloading of the mixture in a liquid consider the possibility of burns hot product. For this purpose, use protective gloves resistant to temperature, goggles, protective clothing. Places burned immediately be cooled with water or ice. Ask for medical assistance.
<b>14.7. Transport in bulk according to Annex II MARPOL 73/78 and the IBC Code:</b>	Not applicable

## SECTION 15. REGULATORY INFORMATION

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

Act of 25 February 2011 on chemical substances and mixtures thereof (OJ of 2011 No 63, item 322, as amended). Consolidated text (OJ 2018 item 143)

Regulation of the Minister of Labour and Social Policy of 12 June 2018 on the maximum permissible concentration and intensity of factors harmful to health in the working environment (OJ 2018 item 1286).


Waste Act of 14 December 2012 (OJ 2013 item 21, as amended)

Act of 13 June 2013 on packaging and packaging waste management (OJ 2013 item 888, as amended)

Regulation of the Minister of the Environment of 9 December 2014 on the waste catalogue (OJ 2014, item 1923)

**1907/2006/EC** Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) and establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (corrigendum OJ L 136, 29.5.2007, as amended)

**1272/2008/EC** Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (OJ EU L No 353, 31.12.2008, as amended)

	<b>SAFETY DATA SHEET</b> Prepared in compliance with the EU Regulation No 830/2015	Date of preparation: <b>04.03.2013</b>
		<b>Update: 03.10.2018</b>
	<b>MIX HDC</b>	<b>Version: 3.1 CLP</b>
		<b>Page 7 from 7</b>

**2015/830/EU** Commission Regulation No 2015/830/EU of 28 May 2015 amending Regulation (EC) No. 1907/2006 of the European Parliament and of the Council concerning the registration, evaluation, authorisation and restriction of chemicals (REACH).

## 15.2. Chemical safety assesment

Attaching the chemical safety assessment is not required for the mixtures not classified as hazardous.

## SECTION 16. OTHER INFORMATION

### Changes made by updating:

Section update: 3, 8, 15 - an amendment to the binding legal act.

### List of abbreviations and acronyms that could be (but not necessarily are) used in this safety data sheet:

#### Acronym Full text

N/A	Not applicable
N/D	Not determined
NE	Not established
AICS	Australian Inventory of Chemical Substances
AIHA WEEL	American Industrial Hygiene Association Workplace Environmental Exposure Limits
ASTM	ASTM International, originally known as the American Society for Testing and Materials (ASTM)
DSL	Domestic Substance List (Canada)
EINECS	European Inventory of Existing Commercial Substances
ELINCS	European List of Notified Chemical Substances
ENCS	Existing and new Chemical Substances (Japanese inventory)
IECSC	Inventory of Existing Chemical Substances in China
KECI	Korean Existing Chemicals Inventory
NDSL	Non-Domestic Substances List (Canada)
NZIoC	New Zealand Inventory of Chemicals
PICCS	Philippine Inventory of Chemicals and Chemical Substances
TLV	Threshold Limit Value (American Conference of Governmental Industrial Hygienists)
TSCA	Toxic Substances Control Act (U.S. inventory)
UVCB	Substances of Unknown or Variable composition, Complex reaction products or Biological materials
LC	Lethal Concentration
LD	Lethal Dose
LL	Lethal Loading
EC	Effective Concentration
EL	Effective Loading
NOEC	No Observable Effect Concentration
NOELR	No Observable Effect Loading Rate

*The information and recommendations contained herein are, to the best of ORLEN Południe S.A. knowledge and belief, accurate and reliable as of the date issued. You can contact ORLEN Południe S.A. to insure that this document is the most current available from ORLEN Południe S.A. The information and recommendations are offered for the user's consideration and examination. It is the user's responsibility to satisfy itself that the product is suitable for the intended use. If buyer repackages this product, it is the user's responsibility to insure proper health, safety and other necessary information is included with and/or on the container. Appropriate warnings and safe-handling procedures should be provided to handlers and users. Alteration of this document is strictly prohibited. Except to the extent required by law, re-publication or retransmission of this document, in whole or in part, is not permitted.*