



## SAFETY DATA SHEET

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

#### 1.1. Product identifier

Product name : 8100 X-CESS GEN2 5W-40

Product code : 17603northamerica

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

4-stroke engine lubricant

#### 1.3. Details of the supplier of the safety data sheet

Registered company name : MOTUL.

Address : 119 BOULEVARD FELIX FAURE.93300.AUBERVILLIERS CEDEX.FRANCE.

Telephone : +33 (0)1.48.11.70.00. Fax : +33 (0)1.48.33.28.79.

Email: motul\_hse@motul.fr

#### 1.4. Emergency telephone number : +44 (0) 1235 239 670.

Association/Organisation : .

#### Other emergency numbers

BRAZIL : +55 11 3197 5891 / COLOMBIA : +57 1 508 7337 / ARGENTINA : +54 11 5984 3690 / CHILE : +562 2582 9336

Ireland : +353 1 8092566

UNITED STATES: 001 866 928 0789 / CANADA: 001 800 579 7421 / MEXICO : +52 55 5004 8763 / MIDDLE EAST - AFRICA : +44 1235 239671

24 hours a day, 7 days a week

### SECTION 2 : HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

##### HCS compliant.

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

This mixture does not present a health hazard with the exception of possible occupational exposure thresholds (see paragraphs 3 and 8).

#### 2.2. Label elements

##### HCS compliant.

No labelling requirements for this mixture.

#### 2.3. Other hazards

No data available.

### SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2. Mixtures

##### Composition :

Identification	HCS	Nota	%
CAS: 72623-87-1 EC: 276-738-4 REACH: 01-2119474889-13  LUBRICATING OILS (PETROLEUM), C20-50, HYDROTREATED NEUTRAL OIL-BASED			50 <= x % < 100
CAS: 72623-87-1 EC: 276-738-4 REACH: 01-2119474889-13  LUBRICATING OILS (PETROLEUM), C20-50, HYDROTREATED NEUTRAL OIL-BASED	GHS08 Dgr Asp. Tox. 1, H304		10 <= x % < 25

CAS: 68784-31-6 EC: 272-238-5 REACH: 01-2119657973-23-0000  PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(SEC-BU AND 1,3-DIMETHYLBUTYL) ESTERS, ZINC SALTS	GHS05 Dgr Eye Dam. 1, H318		1 <= x % < 2.5
CAS: 722503-68-6 EC: POLYMERE  ALKARYLSULFONATE A CHAINE LONGUE DE CALCIUM	GHS07 Wng Skin Sens. 1B, H317		1 <= x % < 2.5

(Full text of H-phrases: see section 16)

## SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.  
NEVER induce swallowing by an unconscious person.

### 4.1. Description of first aid measures

#### In the event of exposure by inhalation :

Remove the victim to fresh air. If the symptoms persist, call a physician.

#### In the event of splashes or contact with eyes :

Wash immediately and abundantly with water, including under the eyelids.

#### In the event of splashes or contact with skin :

Immediately remove all soiled clothing.

Wash immediately and abundantly with soap and water.

#### In the event of swallowing :

Seek medical attention, showing the label.

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

No data available.

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

No data available.

## SECTION 5 : FIREFIGHTING MEASURES

Non-flammable.

### 5.1. Extinguishing media

#### Suitable methods of extinction

Dry agent, foam, carbon dioxide.

#### Unsuitable methods of extinction

High volume water jet

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

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)
- carbon dioxide (CO<sub>2</sub>)

### 5.3. Advice for firefighters

No data available.

## SECTION 6 : ACCIDENTAL RELEASE MEASURES

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

Consult the safety measures listed under headings 7 and 8.

Spilled product may make surfaces slippery.

#### For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

### 6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums

for waste disposal.

Prevent any material from entering drains or waterways.

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

Clean preferably with a detergent, do not use solvents.

### 6.4. Reference to other sections

No data available.

## SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

### 7.1. Precautions for safe handling

Always wash hands after handling.

Do not swallow

Do not get in eyes, on skin, or on clothing.

#### Fire prevention :

Prevent access by unauthorised personnel.

Take precautionary measures against static discharges by bonding and grounding equipment.

No smoking.

#### Recommended equipment and procedures :

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Ensure good ventilation at the workplace

#### Prohibited equipment and procedures :

No smoking, eating or drinking in areas where the mixture is used.

Do not breathe fumes, vapour, spray.

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

Store between 5°C and 40°C in a dry, well ventilated place.

Only use hydrocarbon-resistant containers, joints and pipes.

#### Storage

Keep out of reach of children.

#### Packaging

Always keep in packaging made of an identical material to the original.

### 7.3. Specific end use(s)

No data available.

## SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

No data available.

#### Derived no effect level (DNEL) or derived minimum effect level (DMEL):

PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(SEC-BU AND 1,3-DIMETHYLBUTYL) ESTERS, ZINC SALTS (CAS: 68784-31-6)

##### Final use:

##### Workers.

Exposure method:

Dermal contact.

Potential health effects:

Long term systemic effects.

DNEL :

9.6 mg/kg body weight/day

Exposure method:

Inhalation.

Potential health effects:

Long term systemic effects.

DNEL :

6.6 mg of substance/m3

##### Final use:

##### Consumers.

Exposure method:

Ingestion.

Potential health effects:

Long term systemic effects.

DNEL :

0.19 mg/kg body weight/day

Exposure method:

Dermal contact.

Potential health effects:

Long term systemic effects.

DNEL :

4.8 mg/kg body weight/day

Exposure method:

Inhalation.

Potential health effects:

Long term systemic effects.

DNEL : 1.67 mg of substance/m3

LUBRICATING OILS (PETROLEUM), C20-50, HYDROTREATED NEUTRAL OIL-BASED (CAS: 72623-87-1)

**Final use:** **Workers.**  
Exposure method: Inhalation.  
Potential health effects: Long term local effects.  
DNEL : 5.4 mg of substance/m3

**Final use:** **Consumers.**  
Exposure method: Inhalation.  
Potential health effects: Long term local effects.  
DNEL : 1.2 mg of substance/m3

**Predicted no effect concentration (PNEC):**

PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(SEC-BU AND 1,3-DIMETHYLBUTYL) ESTERS, ZINC SALTS (CAS: 68784-31-6)

Environmental compartment: Soil.  
PNEC : 0.0548 mg/kgEnvironmental compartment: Fresh water.  
PNEC : 4 µg/lEnvironmental compartment: Sea water.  
PNEC : 4.6 µg/lEnvironmental compartment: Intermittent waste water.  
PNEC : 4.4 µg/lEnvironmental compartment: Fresh water sediment.  
PNEC : 0.0701 mg/kgEnvironmental compartment: Marine sediment.  
PNEC : 0.00701 mg/kgEnvironmental compartment: Waste water treatment plant.  
PNEC : 3.8 mg/lEnvironmental compartment: Vermivore predators (oral).  
PNEC : 8.33 mg/kg**8.2. Exposure controls****Appropriate engineering controls**

Ensure adequate ventilation, if possible with extractor fans at work posts and appropriate general extraction.  
Personnel shall wear regularly laundered overalls.

**Personal protection measures, such as personal protective equipment**

Use personal protective equipment that is clean and has been properly maintained.  
Store personal protective equipment in a clean place, away from the work area.  
Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

**- Eye / face protection**

Avoid contact with eyes.  
Use eye protectors designed to protect against liquid splashes  
Before handling, wear safety goggles in accordance with standard EN166.

**- Hand protection**

Wear suitable protective gloves in the event of prolonged or repeated skin contact.  
Type of gloves recommended :

Glove thickness:	0.38 mm
Break-through time:	> 480 mn

**- Body protection**

Work clothing worn by personnel shall be laundered regularly.  
After contact with the product, all parts of the body that have been soiled must be washed.

**- Respiratory protection**

Breathing apparatus only when aerosol or spray are formed.

**SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties****General information :**

Physical state :	Fluid liquid.
Color:	Amber

 **Important health, safety and environmental information**

pH :	Not relevant.
Flash point interval :	Not relevant.
Vapour pressure (50°C) :	Not relevant.
Density :	< 1
Water solubility :	Insoluble.
Viscosity :	92.6 mm <sup>2</sup> /s à 40°C

**9.2. Other information**

No data available.

**SECTION 10 : STABILITY AND REACTIVITY****10.1. Reactivity**

No data available.

**10.2. Chemical stability**

This mixture is stable under the recommended handling and storage conditions in section 7.

**10.3. Possibility of hazardous reactions**

No data available.

**10.4. Conditions to avoid**

Keep away from heat and from sources of ignition

Take precautionary measures against static discharges.

**10.5. Incompatible materials**

Strong oxidants

Acids

**10.6. Hazardous decomposition products**

The thermal decomposition may release/form :

- carbon monoxide (CO)

- carbon dioxide (CO<sub>2</sub>)**SECTION 11 : TOXICOLOGICAL INFORMATION****11.1. Information on toxicological effects**

No data available.

**11.1.1. Substances****Acute toxicity :**

PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(SEC-BU AND 1,3-DIMETHYLBUTYL) ESTERS, ZINC SALTS (CAS: 68784-31-6)

Oral route : LD<sub>50</sub> > 2900 mg/kg  
Species : RatDermal route : LD<sub>50</sub> > 5000 mg/kg  
Species : Rabbit

LUBRICATING OILS (PETROLEUM), C20-50, HYDROTREATED NEUTRAL OIL-BASED (CAS: 72623-87-1)

Oral route : LD<sub>50</sub> > 5000 mg/kg  
Species : Rat  
OCDE Ligne directrice 401 (Toxicité aiguë par voie orale)Dermal route : 2,000 < LD<sub>50</sub> ≤ 5000 mg/kg  
Species : Rabbit  
OCDE Ligne directrice 402 (Toxicité aiguë par voie cutanée)

Inhalation route (Dusts/mist) :  
LC50 = 5.53 mg/l  
Species : Rat  
OCDE Ligne directrice 403 (Toxicité aiguë par inhalation)  
Duration of exposure : 4 h

### 11.1.2. Mixture

#### Skin corrosion/skin irritation :

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non allergic contact dermatitis and absorption through the skin.



#### Serious damage to eyes/eye irritation :

The eye irritation hazard is based on an evaluation of the data for similar products. These data show that a specific component present in this product antagonizes (or decreases the severity of) the eye irritation of the ZnDTP.



#### Respiratory or skin sensitisation :

The skin sensitization hazard is based on evaluation of data for product components. This material is not expected to cause allergic skin reactions.

#### Aspiration hazard :

"Inhalation of vapours may cause irritation of the respiratory system in very susceptible persons."

May cause lung damage if swallowed



#### Other information

Results based on confidential data.

## SECTION 12 : ECOLOGICAL INFORMATION

The product must not be allowed to run into drains or waterways.

### 12.1. Toxicity



#### 12.1.1. Substances

PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(SEC-BU AND 1,3-DIMETHYLBUTYL) ESTERS, ZINC SALTS (CAS: 68784-31-6)

Algae toxicity :  
ECr50 = 2.1 mg/l  
Species : Selenastrum capricornutum  
Duration of exposure : 72 h

LUBRICATING OILS (PETROLEUM), C20-50, HYDROTREATED NEUTRAL OIL-BASED (CAS: 72623-87-1)

Fish toxicity :  
LC50 > 100 mg/l  
Duration of exposure : 96 h  
OCDE Ligne directrice 203 (Poisson, essai de toxicité aiguë)

Crustacean toxicity :  
EC50 > 10000 mg/l  
Duration of exposure : 48 h  
OCDE Ligne directrice 202 (Daphnia sp., essai d'immobilisation immédiate)

NOEC = 10 mg/l  
Duration of exposure : 21 jours  
OCDE Ligne directrice 211 (Daphnia magna, essai de reproduction)

Algae toxicity :  
ECr50 >= 100 mg/l  
Duration of exposure : 72 h  
OCDE Ligne directrice 201 (Algues, Essai d'inhibition de la croissance)



#### 12.1.2. Mixtures

Fish toxicity : No observed effect.

Crustacean toxicity : No observed effect.

Algae toxicity : No observed effect.  
LC50 <= 1 mg/l

Aquatic plant toxicity :

### 12.2. Persistence and degradability



#### 12.2.1. Substances

PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(SEC-BU AND 1,3-DIMETHYLBUTYL) ESTERS, ZINC SALTS (CAS: 68784-31-6)

Biodegradability : no degradability data is available, the substance is considered as not

degrading quickly.

LUBRICATING OILS (PETROLEUM), C20-50, HYDROTREATED NEUTRAL OIL-BASED (CAS: 72623-87-1)

Biodegradability : Non-rapidly degradable.



#### 12.2.2. Mixtures

no degradability data is available, the substance is considered as not

Biodegradability : degrading quickly.



#### 12.3. Bioaccumulative potential

No data available.

#### 12.4. Mobility in soil

Not very mobile in soil.

The product is insoluble in water and will spread on the surface

#### 12.5. Results of PBT and vPvB assessment

No data available.

#### 12.6. Other adverse effects

Do not dispose of the product in the natural environment, effluents or surface waters.

## SECTION 13 : DISPOSAL CONSIDERATIONS

The appropriate waste management of the mixture and/or its container must be determined in accordance with local regulations.

### 13.1. Waste treatment methods

Do not pour into drains or waterways.

#### Waste :

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

#### Soiled packaging :

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

## SECTION 14 : TRANSPORT INFORMATION

Exempt from transport classification and labelling.

### 14.1. UN number

-

### 14.2. UN proper shipping name

-

### 14.3. Transport hazard class(es)

-

### 14.4. Packing group

-

### 14.5. Environmental hazards

-

### 14.6. Special precautions for user

-

## SECTION 15 : REGULATORY INFORMATION

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

The following regulations have been used:

- OSHA Hazard Communication Standard 29 CFR 1910.1200

#### - Container information:

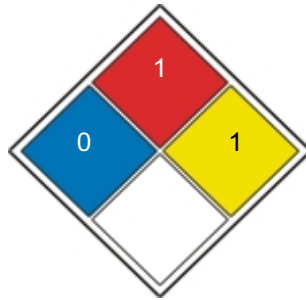
No data available.

#### - Particular provisions :

No data available.

#### - Standardised American system for the identification of hazards presented by the product in view of emergency procedures (NFPA 704) :

NFPA 704, Labelling: Health=0 Inflammability=1 Instability/Reactivity=1 Specific Risk=none



- **Clean Water Act : Toxic Pollutants (CWA 307A)**  
Unlisted.
- **Clean Water Act : Hazardous Substances (CWA 311)**  
Unlisted.
- **Clean Water Act : Hazardous Substances (CWA 304b)**  
Unlisted.
- **Clean Water Act : Priority Pollutants (CWA Priority)**  
Unlisted.
- **Clean Air Act : Hazardous Air Pollutants (CAA 112(b) HAP (188))**  
Unlisted.
- **Clean Air Act : Organic Hazardous Air Pollutants National Emission Standards (CAA 112(b) HON (387))**  
Unlisted.
- **Clean Air Act : Protection of Stratospheric Ozone (CAA 602)**  
Unlisted.
- **SARA 110**  
Unlisted.
- **SARA 302/304**  
Unlisted.
- **SARA 313**  
Unlisted.
- **California proposition 65 : Chemicals known to the state to cause cancer or reproductive toxicity**  
Unlisted.
- **Massachusetts : Right to Know**  
Unlisted.
- **New Jersey : Right to Know**  
Unlisted.
- **Pennsylvania : Hazardous Substance**  
Unlisted.
- **Rhode Island : Hazardous substance list**  
Unlisted.

 - **TSCA (Toxic Substances Control Act) - USA**

CAS	Name
72623-87-1	LUBRICATING OILS (PETROLEUM), C20-50, HYDROTREATED NEUTRAL OIL-BASED
72623-87-1	LUBRICATING OILS (PETROLEUM), C20-50, HYDROTREATED NEUTRAL OIL-BASED
68784-31-6	PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(SEC-BU AND 1,3-DIMETHYLBUTYL) ESTERS, ZINC SALTS

### 15.2. Chemical safety assessment

Product is not classified health and environmental hazard. Exposure scenarios are not required.

## SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

 **Wording of the phrases mentioned in section 3 :**



H304	May be fatal if swallowed and enters airways.
H313	May be harmful in contact with skin.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H333	May be harmful if inhaled.

**Abbreviations :**

DNEL : Derived No-Effect Level

PNEC : Predicted No-Effect Concentration

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.

HCS : Hazard Communication standard (OSHA).