

# Safety Data Sheet



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

### 1.1 Product identifier

#### Cetus PAG

Product Number(s): 219827, 803194

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

Identified Uses: Compressor Oil

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

Chevron Belgium BV  
Zuiderpoort Office Park  
Gaston Crommenlaan 4  
9050 Gent  
Belgium  
email : eumsds@chevron.com

### 1.4 Emergency telephone number

#### Transportation Emergency Response

CHEMTREC: +1 703 527 3887

#### Health Emergency

Centre Antipoisons: +32022649636

Chevron Emergency Information Center: International calls accepted 24 hours: +1 510 231 0623

#### Product Information

Product Information: 0032/(0)9 293 71 11

## SECTION 2 HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

#### CLP CLASSIFICATION:

- Chronic aquatic toxicant: Category 3, H412; Harmful to aquatic life with long lasting effects.

### 2.2 Label elements

Under the criteria of Regulation (EC) No 1272/2008 (CLP):

#### HAZARD STATEMENTS:

##### Environmental Hazards:

- Harmful to aquatic life with long lasting effects (H412).

#### PRECAUTIONARY STATEMENTS:

##### Prevention:

- Avoid release to the environment (P273).

**Disposal:**

- Dispose of contents/container in accordance with applicable local/regional/national/international regulations (P501).

**2.3 Other hazards**

This product is not, or does not contain, a substance that is a potential PBT or a vPvB. This product is not, or does not contain, a substance that potentially has endocrine disrupting properties.

**SECTION 3 COMPOSITION/ INFORMATION ON INGREDIENTS**

**3.2 Mixtures**

This material is a mixture.

COMPONENTS	CAS NUMBER	EC NUMBER	REGISTRATION NUMBER	CLP CLASSIFICATION	AMOUNT
Long chain alkenyl imidazole	95-38-5	202-414-9	01-2119777867-13	Aquatic Acute 1/H400 [M=10]; Aquatic Chronic 1/H410 [M=1]; Eye Dam. 1/H318; Acute Tox. 4/H302; Skin Corr. 1C/H314	0.3 - < 1 %weight

The full text of all CLP H-statements is shown in Section 16.

In accordance with the Regulation (EC)No 1272/2008, Nota L, reference IP 346/92: "DMSO Extraction Method", we have determined that the base oils used in this preparation are not carcinogenic.

**SECTION 4 FIRST AID MEASURES**

**4.1 Description of first aid measures**

**Eye:** No specific first aid measures are required. As a precaution, remove contact lenses, if worn, and flush eyes with water.

**Skin:** No specific first aid measures are required. As a precaution, remove clothing and shoes if contaminated. To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse.

**Ingestion:** No specific first aid measures are required. Do not induce vomiting. As a precaution, get medical advice.

**Inhalation:** No specific first aid measures are required. If exposed to excessive levels of material in the air, move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs.

**4.2 Most important symptoms and effects, both acute and delayed**

**IMMEDIATE SYMPTOMS AND HEALTH EFFECTS**

**Eye:** Not expected to cause prolonged or significant eye irritation.

**Skin:** High-Pressure Equipment Information: Accidental high-velocity injection under the skin of materials of this type may result in serious injury. Seek medical attention at once should an accident like this occur. The initial wound at the injection site may not appear to be serious at first; but, if left untreated, could result in disfigurement or amputation of the affected part.

Contact with the skin is not expected to be harmful.

**Ingestion:** Not expected to be harmful if swallowed.

**Inhalation:** Not expected to be harmful if inhaled. Contains a synthetic hydrocarbon oil. May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at

airborne levels above the recommended mineral oil mist exposure limit. Symptoms of respiratory irritation may include coughing and difficulty breathing.

**DELAYED OR OTHER SYMPTOMS AND HEALTH EFFECTS:** Not classified.

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

Not applicable.

### **SECTION 5 FIRE FIGHTING MEASURES**

#### **5.1 Extinguishing media**

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

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

**Combustion Products:** Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion. Combustion may form oxides of: Nitrogen .

#### **5.3 Advice for firefighters**

This material will burn although it is not easily ignited. See Section 7 for proper handling and storage. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

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

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

Eliminate all sources of ignition in vicinity of spilled material. Refer to Sections 5 and 8 for more information.

#### **6.2 Environmental precautions**

Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater.

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

Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. Where feasible and appropriate, remove contaminated soil and dispose of in a manner consistent with applicable requirements. Place other contaminated materials in disposable containers and dispose of in a manner consistent with applicable requirements. Report spills to local authorities as appropriate or required.

#### **6.4 Reference to other sections**

See sections 8 and 13.

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

#### **7.1 Precautions for safe handling**

**General Handling Information:** Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

**Precautionary Measures:** Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Wash thoroughly after handling.

**Static Hazard:** Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating and accumulating an electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling,

tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures.

**Container Warnings:** Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.

## 7.2 Conditions for safe storage, including any incompatibilities

Not Applicable

## 7.3 Specific end use(s): Compressor Oil

# SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

## GENERAL CONSIDERATIONS:

Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the workplace when designing engineering controls and selecting personal protective equipment (PPE). If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, refer to PPE information below.

Factors that affect PPE include, but are not limited to: properties of the chemical, other chemicals which may contact the same PPE, physical requirements (fit & sizing, cut/puncture protection, dexterity, thermal protection, etc.), and potential allergic reactions to the PPE material. It is the responsibility of the user to read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances. Refer to appropriate CEN standards.

## 8.1 Control parameters

**Occupational Exposure Limits:** No applicable occupational exposure limits exist for this material or its components. Consult local authorities for appropriate values.

## 8.2 Exposure controls

### ENGINEERING CONTROLS:

Use in a well-ventilated area.

## PERSONAL PROTECTIVE EQUIPMENT

**Eye/Face Protection:** Wear protective equipment to prevent eye contact. Selection of protective equipment may include safety glasses, chemical goggles, face shields, or a combination depending on the work operations conducted.

**Skin Protection:** Wear chemical personal protective equipment (PPE) to prevent skin contact. Selection of chemical protective clothing should be performed by an Occupational Hygienist or Safety Professional and be based upon applicable standards (ASTM F739 or EN 374). Using chemical PPE depends upon operations conducted and may include chemical gloves, boots, chemical apron, chemical suit, and complete facial protection. Refer to PPE manufacturers to obtain breakthrough time information to determine how long PPE can be used before it needs to be replaced. Unless specific glove manufacturer data indicates otherwise, the below table is based upon available industry data to assist in the glove selection process and is intended to be used as reference only.

Chemical Glove Material	Thickness (mm)	Typical Breakthrough Time (minutes)
Butyl	0.7	120
Neoprene	0.61	120
Nitrile	0.85	30
Polyvinyl Chloride (PVC)	1.1	120

Viton Butyl	0.3	120
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**Respiratory Protection:** No respiratory protection is normally required. If user operations generate an oil mist, determine if airborne concentrations are below the occupational exposure limit for mineral oil mist. If not, wear an approved respirator that provides adequate protection from the measured concentrations of this material. For air-purifying respirators use a particulate cartridge.

**ENVIRONMENTAL EXPOSURE CONTROLS:**

See relevant Community environmental protection legislation or the Annex, as applicable.

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

**Attention:** the data below are typical values and do not constitute a specification.

**9.1 Information on basic physical and chemical properties**

**Appearance**

**Color:** Brown

**Physical State:** Liquid

**Odor:** No data available

**Odor Threshold:** No data available

**pH:** Not Applicable

**Melting Point:** No data available

**Freezing Point:** Not Applicable

**Initial Boiling Point:** No data available

**Flashpoint:** (Cleveland Open Cup) 220 °C (428 °F) (Minimum)

**Evaporation Rate:** No data available

**Flammability (solid, gas):** Not Applicable

**Flammability (Explosive) Limits (% by volume in air):**

Lower: Not Applicable Upper: Not Applicable

**Vapor Pressure:** No data available

**Vapor Density (Air = 1):** No data available

**Density:** 1.0550 kg/l @ 15°C (59°F) (Typical)

**Solubility:** Slightly soluble.

**Partition coefficient: n-octanol/water:** No data available

**Auto-ignition temperature:** No data available

**Decomposition temperature:** No data available

**Viscosity:** 160 mm<sup>2</sup>/s @ 40°C (104°F) (Minimum)

**Explosive Properties:** No Data Available

**Oxidising properties:** No Data Available

**9.2 Other Information:** No Data Available

**SECTION 10 STABILITY AND REACTIVITY**

**10.1 Reactivity:** May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

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

**10.3 Possibility of hazardous reactions:** Hazardous polymerization will not occur.

**10.4 Conditions to Avoid:** Not applicable

**10.5 Incompatible materials to avoid:** Not applicable

**10.6 Hazardous decomposition products:** None known (None expected)

**SECTION 11 TOXICOLOGICAL INFORMATION**

## 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

### Product Information:

**Serious Eye Damage/Irritation:** The material is not considered an eye irritant. The product has not been tested. The statement is based on evaluation of data for product components.

**Skin Corrosion/Irritation:** The material is not considered a skin irritant. The product has not been tested. The statement is based on evaluation of data for product components.

**Skin Sensitization:** The material is not considered a skin sensitizer. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

**Acute Dermal Toxicity:** The material is not considered a dermal toxicant. The product has not been tested. The statement is based on evaluation of data for product components.

**Acute Toxicity Estimate (dermal):** Not Applicable

**Acute Oral Toxicity:** The material is not considered an oral toxicant. The product has not been tested. The statement is based on evaluation of data for product components.

**Acute Toxicity Estimate (oral):** Not Applicable

**Acute Inhalation Toxicity:** The material is not considered an inhalation toxicant. The product has not been tested. The statement is based on evaluation of data for product components.

**Acute Toxicity Estimate (inhalation):** Not Applicable

**Germ Cell Mutagenicity:** The material is not considered a mutagen. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

**Carcinogenicity:** The material is not considered a carcinogen. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

**Reproductive Toxicity:** The material is not considered a reproductive toxicant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

**Specific Target Organ Toxicity - Single Exposure:** The material is not considered a target organ toxicant (single exposure). The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

**Specific Target Organ Toxicity - Repeated Exposure:** The material is not considered a target organ toxicant (repeated exposure). The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

**Aspiration Hazard:** The material is not considered an aspiration hazard.

### Component Information:

#### Serious Eye Damage/Irritation:

Long chain alkenyl imidazole	Test Result: Causes serious eye damage
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#### Skin Corrosion/Irritation:

Long chain alkenyl imidazole	Test Result: Causes severe skin burns and eye damage
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#### Skin Sensitization:

Long chain alkenyl imidazole	Based on available data, the classification criteria are not met
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#### Acute Dermal Toxicity:

Long chain alkenyl imidazole	Based on available data, the classification criteria are not met
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<b>Acute Oral Toxicity:</b>	
Long chain alkenyl imidazole	Test Qualifier: LD50 Test Result: 300-2000 mg/kg Species: rat

<b>Acute Inhalation Toxicity:</b>	
Long chain alkenyl imidazole	Based on available data, the classification criteria are not met

<b>Germ Cell Mutagenicity:</b>	
Long chain alkenyl imidazole	Based on available data, the classification criteria are not met

<b>Carcinogenicity:</b>	
Long chain alkenyl imidazole	Based on available data, the classification criteria are not met

<b>Reproductive Toxicity:</b>	
Long chain alkenyl imidazole	Based on available data, the classification criteria are not met

<b>Specific Target Organ Toxicity - Single Exposure:</b>	
Long chain alkenyl imidazole	Based on available data, the classification criteria are not met

<b>Specific Target Organ Toxicity - Repeated Exposure:</b>	
Long chain alkenyl imidazole	Based on available data, the classification criteria are not met

## 11.2 Information on other hazards

No other hazards identified.

## SECTION 12 ECOLOGICAL INFORMATION

### Product Information:

#### 12.1 Toxicity

This material is expected to be harmful to aquatic organisms and may cause long-term adverse effects in the aquatic environment. The product has not been tested. The statement has been derived from the properties of the individual components.

#### 12.2 Persistence and degradability

This material is not expected to be readily biodegradable. The product has not been tested. The statement has been derived from the properties of the individual components.

#### 12.3 Bioaccumulative potential

Bioconcentration Factor: No Data Available  
Octanol/Water Partition Coefficient: No data available

#### 12.4 Mobility in soil

No data available.

#### 12.5 Results of PBT and vPvB assessment

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

#### 12.6 Endocrine Disrupting Properties

This product is not, or does not contain, a substance that potentially has endocrine disrupting properties.

#### 12.7 Other adverse effects

No other adverse effects identified.

**Component Information:**

<b>Acute Toxicity:</b>	
Long chain alkenyl imidazole	Test Qualifier: EC50 Test Result: <=1 mg/l Species: Invertebrate
Long chain alkenyl imidazole	Protocol: OECD 201-Alga Growth Inhib Test Qualifier: EC50 Test Result: <=1 mg/l Species: Algae
Long chain alkenyl imidazole	Test Qualifier: LC50 Test Result: <=1 mg/l Species: Fish

<b>Long-term Toxicity:</b>	
Long chain alkenyl imidazole	No test data available

<b>Biodegradation:</b>	
Long chain alkenyl imidazole	Test Result: Not readily biodegradable

<b>Bioaccumulative Potential:</b>	
Long chain alkenyl imidazole	No test data available

**SECTION 13 DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

Use material for its intended purpose or recycle if possible. Oil collection services are available for used oil recycling or disposal. Place contaminated materials in containers and dispose of in a manner consistent with applicable regulations. Contact your sales representative or local environmental or health authorities for approved disposal or recycling methods.

In accordance with European Waste Catalogue (E.W.C.) the codification is the following:13 02 06

**SECTION 14 TRANSPORT INFORMATION**

The description shown may not apply to all shipping situations. Consult appropriate Dangerous Goods Regulations for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

**ADR/RID**

NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT

**14.1 UN Number or ID Number:** Not applicable

**14.2 UN proper shipping name:** Not applicable

**14.3 Transport hazard class(es):** Not applicable

**14.4 Packing group:** Not applicable

**14.5 Environmental hazards:** Not applicable

**14.6 Special precautions for user:** Not applicable

**ICAO / IATA**

NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT

**14.1 UN Number or ID Number:** Not applicable

**14.2 UN proper shipping name:** Not applicable

**14.3 Transport hazard class(es):** Not applicable

**14.4 Packing group:** Not applicable



**14.5 Environmental hazards:** Not applicable  
**14.6 Special precautions for user:** Not applicable

## IMO / IMDG

NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT

**14.1 UN Number or ID Number:** Not applicable  
**14.2 UN proper shipping name:** Not applicable  
**14.3 Transport hazard class(es):** Not applicable  
**14.4 Packing group:** Not applicable  
**14.5 Environmental hazards:** Not applicable  
**14.6 Special precautions for user:** Not applicable  
**14.7 Maritime Transport in Bulk according to IMO Instruments:** Not applicable

## SECTION 15 REGULATORY INFORMATION

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture REGULATORY LISTS SEARCHED:

01=EU Directive 76/769/EEC: Restrictions on the marketing and use of certain dangerous substances.  
02=EU Directive 90/394/EEC: Carcinogens at work.  
03=EU Directive 92/85/EEC: Pregnant or breastfeeding workers.  
04=EU Directive 96/82/EC (Seveso II): Article 9.  
05=EU Directive 96/82/EC (Seveso II): Articles 6 and 7.  
06=EU Directive 98/24/EC: Chemical agents at work.  
07=EU Directive 2004/37/EC: On the protection of workers.  
08=EU Regulation EC No. 689/2008: Annex 1, Part 1.  
09=EU Regulation EC No. 689/2008: Annex 1, Part 2.  
10=EU Regulation EC No. 689/2008: Annex 1, Part 3.  
11=EU Regulation EC No. 850/2004: Prohibiting and restricting persistent organic pollutants (POPs).  
12=EU REACH, Annex XVII: Restrictions on manufacture, placing on the market and use of certain dangerous substances, mixture & article.  
13=EU REACH, Annex XIV: Authorization List or Candidate List of Substances of Very High Concern for Authorization (SVHC).

No components of this material were found on the regulatory lists above.

### CHEMICAL INVENTORIES:

All components comply with the following chemical inventory requirements: AIIIC (Australia), DSL (Canada), EINECS (European Union), ENCS (Japan), IECSC (China), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (United States).

### 15.2 Chemical safety assessment

No chemical safety assessment.

## SECTION 16 OTHER INFORMATION

**REVISION STATEMENT:** SECTION 01 - Company Identification information was added.  
SECTION 01 - Company MSDS Address information was modified.  
SECTION 01 - Health Emergency information was modified.  
SECTION 01 - Transportation Emergency Response information was modified.  
SECTION 02 - Environmental Classification information was added.  
SECTION 02 - Environmental Classification information was deleted.  
SECTION 02 - Hazard Statements information was added.  
SECTION 02 - Hazard Statements information was deleted.  
SECTION 02 - Precautionary Statements information was added.  
SECTION 02 - Precautionary Statements information was deleted.  
SECTION 02 - Supplemental Hazard information was modified.

SECTION 03 - Composition information was modified.  
 SECTION 08 - Eye/Face Protection information was modified.  
 SECTION 08 - General Considerations information was modified.  
 SECTION 08 - Personal Protective Equipment List information was deleted.  
 SECTION 08 - Personal Protective Equipment information was added.  
 SECTION 08 - Skin Protection information was modified.  
 SECTION 09 - Physical/Chemical Properties information was modified.  
 SECTION 11 - Carcinogenicity information was added.  
 SECTION 11 - Germ Cell Mutagenicity information was added.  
 SECTION 11 - Reproductive Toxicity information was added.  
 SECTION 11 - Specific Target Organ Toxicity - Repeated Exposure information was added.  
 SECTION 11 - Specific Target Organ Toxicity - Single Exposure information was added.  
 SECTION 11 - Toxicological Information information was modified.  
 SECTION 11.2 - Other Hazards information was added.  
 SECTION 12 - Ecological Information information was modified.  
 SECTION 12.6 - Endocrine Disrupting Properties information was added.  
 SECTION 15 - Chemical Inventories information was modified.  
 SECTION 15 - Regulatory Information information was modified.  
 SECTION 16 - Full Text of H-Statements information was modified.

**Revision Date:** August 04, 2022

**Full text of CLP H-statements:**

Aquatic Acute 1/H400; Very toxic to aquatic life  
 Aquatic Chronic 1/H410; Very toxic to aquatic life with long lasting effects  
 Eye Dam. 1/H318; Causes serious eye damage  
 Acute Tox. 4/H302; Harmful if swallowed  
 Skin Corr. 1C/H314; Causes severe skin burns and eye damage

**ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:**

TLV	-	Threshold Limit Value	TWA	-	Time Weighted Average
STEL	-	Short-term Exposure Limit	PEL	-	Permissible Exposure Limit
CVX	-	Chevron	CAS	-	Chemical Abstract Service Number
NQ	-	Not Quantifiable			

Prepared according to the EU Regulation 1907/2006 (as amended) by Chevron Technical Center, 6001 Bollinger Canyon Road, San Ramon, CA 94583.

**The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.**

**No Annex**