



# Safety Data Sheet

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### 1. Identification

**Product identifier used on the label**

**PAG WS 660**

**Recommended use of the chemical and restriction on use**

Recommended use\*: Basestock for synthetic lubricant

Unsuitable for use: None known

\* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

**Details of the supplier of the safety data sheet**

Company:

PAN AMERICAN LUBRICANTS  
2419 S. 153RD ST  
OMAHA, NE 68144  
USA

Customer Service: (402) 502-1229

**Emergency telephone number**

24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300

**Other means of identification**

Substance number: 988251

Chemical family: polyalkylene, glycols



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## 2. Hazards Identification

**According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200**

### Classification of the product

No need for classification according to GHS criteria for this product.

### Label elements

The product does not require a hazard warning label in accordance with GHS criteria.

### Hazards not otherwise classified

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

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## 3. Composition / Information on Ingredients

**According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200**

Under the referenced regulation, this product does not contain any components classified for health hazards above the relevant cut off value.

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## 4. First-Aid Measures

### Description of first aid measures

#### General advice:

Remove contaminated clothing.

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### **If inhaled:**

Remove the affected individual into fresh air and keep the person calm. Seek medical attention.

### **If on skin:**

Wash thoroughly with soap and water

If irritation develops, seek medical attention.

### **If in eyes:**

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

Seek medical attention.

### **If swallowed:**

Rinse mouth and then drink 200-300 ml of water. Do not induce vomiting. Immediate medical attention required.

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

Symptoms: No data available.

Hazards: No applicable information available.

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

#### Note to physician

Treatment:

Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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## **5. Fire-Fighting Measures**

### **Extinguishing media**

Suitable extinguishing media:  
water spray, dry powder, foam

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

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Hazards during fire-fighting:

harmful vapours

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

### Advice for fire-fighters

Protective equipment for fire-fighting:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

### Further information:

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

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## 6. Accidental release measures

Further accidental release measures:

High risk of slipping due to leakage/spillage of product.

### Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Breathing protection required.

### Environmental precautions

Do not discharge into drains/surface waters/groundwater.

### Methods and material for containment and cleaning up

For small amounts: Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder).

Dispose of absorbed material in accordance with regulations.

For large amounts: Pump off product.

Place absorbed material in the same container as the spilled substance/product for disposal.

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## 7. Handling and Storage

### Precautions for safe handling

Use only in well-ventilated areas.

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Ensure that workrooms are adequately ventilated. Avoid aerosol formation. Extract when the product is heated.

Protection against fire and explosion:

Take precautionary measures against static discharges.

### **Conditions for safe storage, including any incompatibilities**

Segregate from alkalies and alkalizing substances.

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

Storage stability:

Storage temperature: 20 - 80 °C

Protect from temperatures below: 20 °C

Protect from temperatures above: 100 °C

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## **8. Exposure Controls/Personal Protection**

No occupational exposure limits known.

### **Advice on system design:**

No applicable information available.

### **Personal protective equipment**

#### **Respiratory protection:**

Wear respiratory protection if ventilation is inadequate. Respiratory protection in case of vapour/aerosol release.

#### **Hand protection:**

Chemical resistant protective gloves

#### **Eye protection:**

Safety glasses with side-shields.

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### Body protection:

No body protection required if used for intended purpose and satisfying generally accepted industrial hygiene rules.

### General safety and hygiene measures:

Wear protective clothing as necessary to minimize contact. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin and eyes. Remove soiled or soaked clothing immediately. Wash off any contamination that gets onto the skin with plenty of water and soap, skin care.

## 9. Physical and Chemical Properties

Form:	liquid	
Odour:	almost odourless	
Odour threshold:	not determined	
Colour:	clear to slightly amber	
pH value:	5 - 7.5 ( 10 %(m), 20 °C)	(ASTM E70)
Melting point:	not determined	
Freezing point:	No applicable information available.	
boiling temperature:	not applicable	
Sublimation point:	No applicable information available.	
Flash point:	246 °C	(ASTM D92)
Flammability:	hardly combustible	(derived from flash point)
Lower explosion limit:	For liquids not relevant for classification and labelling. The lower explosion point may be 5 - 15 °C below the flash point.	
Upper explosion limit:	For liquids not relevant for classification and labelling.	
Autoignition:	No applicable information available.	
Vapour pressure:	< 1.3 hPa ( 50 °C)	(estimated)
Density:	1.05 g/cm3 ( 15 °C) 1.052 g/cm3 ( 20 °C)	(ASTM D 7042)

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	1.024 g/cm <sup>3</sup> ( 50 °C)
Relative density:	No applicable information available.
Vapour density:	No applicable information available.
Partitioning coefficient n-octanol/water (log Pow):	No applicable information available.
Self-ignition temperature:	not self-igniting
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.
Viscosity, dynamic:	No applicable information available.
Viscosity, kinematic:	145 - 155 mm <sup>2</sup> /s ( 40 °C)
Solubility in water:	soluble
Solubility (quantitative):	No applicable information available.
Solubility (qualitative):	No applicable information available.
Molar mass:	No applicable information available.
Evaporation rate:	Value can be approximated from Henry's Law Constant or vapor pressure.
Other Information:	If necessary, information on other physical and chemical parameters is indicated in this section.

## 10. Stability and Reactivity

### Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals:

No corrosive effect on metal.

Oxidizing properties:

not fire-propagating

### Chemical stability

The product is stable if stored and handled as prescribed/indicated.

### Possibility of hazardous reactions

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Reacts with oxidizing agents. Reacts with strong acids.

### Conditions to avoid

No conditions to avoid anticipated.

### Incompatible materials

oxidizing agents, reducing agents

### Hazardous decomposition products

Decomposition products:

Hazardous decomposition products: No hazardous decomposition products known.

Thermal decomposition:

No decomposition if stored and handled as prescribed/indicated.

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## 11. Toxicological information

### Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

### Acute Toxicity/Effects

#### Acute toxicity

Assessment of acute toxicity: Virtually nontoxic after a single ingestion. Virtually nontoxic by inhalation.

#### Oral

No applicable information available.

#### Inhalation

Type of value: LC50

Species: rat

Value: > 5 mg/l (OECD Guideline 403)

Exposure time: 4 h

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Analogous: Assessment derived from products with similar chemical character.  
No mortality was observed. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

### Dermal

No applicable information available.

### Assessment other acute effects

Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

### Irritation / corrosion

Assessment of irritating effects: Not irritating to the skin. Not irritating to the eyes.

### Sensitization

Assessment of sensitization: Based on available Data, the classification criteria are not met.

### Aspiration Hazard

No aspiration hazard expected.

## Chronic Toxicity/Effects

### Repeated dose toxicity

Assessment of repeated dose toxicity: Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses. The product has not been tested. The statement has been derived from the properties of the individual components.

### Genetic toxicity

Assessment of mutagenicity: Based on the ingredients, there is no suspicion of a mutagenic effect.

### Carcinogenicity

Assessment of carcinogenicity: The whole of the information assessable provides no indication of a carcinogenic effect.

### Reproductive toxicity

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Assessment of reproduction toxicity: Based on the ingredients, there is no suspicion of a toxic effect on reproduction.

#### Teratogenicity

Assessment of teratogenicity: Based on available Data, the classification criteria are not met.

#### Other Information

The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

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## 12. Ecological Information

### **Toxicity**

#### Aquatic toxicity

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms.

### **Persistence and degradability**

#### Assessment biodegradation and elimination (H<sub>2</sub>O)

Readily biodegradable (according to OECD criteria).

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

#### Elimination information

69 % CO<sub>2</sub> formation relative to the theoretical value (28 d) (OECD 301B; ISO 9439; 92/69/EEC, C.4-C) Readily biodegradable.

Analogous: Assessment derived from products with similar chemical character.

### **Bioaccumulative potential**

#### Assessment bioaccumulation potential

Significant accumulation in organisms is not to be expected.

### **Mobility in soil**



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### Assessment transport between environmental compartments

The substance will not evaporate into the atmosphere from the water surface.

### **Additional information**

Other ecotoxicological advice:

Do not discharge product into the environment without control. The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components.

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## 13. Disposal considerations

### **Waste disposal of substance:**

Dispose of in accordance with national, state and local regulations. It is the waste generator's responsibility to determine if a particular waste is hazardous under RCRA.

### **Container disposal:**

Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

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## 14. Transport Information

### **Land transport**

USDOT

Not classified as a dangerous good under transport regulations

### **Sea transport**

IMDG

Not classified as a dangerous good under transport regulations

### **Air transport**

IATA/ICAO

Not classified as a dangerous good under transport regulations



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### 15. Regulatory Information

#### Federal Regulations

##### **Registration status:**

Chemical TSCA, US released / listed

**EPCRA 311/312 (Hazard categories):** Refer to SDS section 2 for GHS hazard classes applicable for this product.

##### **NFPA Hazard codes:**

Health: 1 Fire: 1 Reactivity: 0 Special:

##### **HMIS III rating**

Health: 1 Flammability: 1 Physical hazard: 0

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### 16. Other Information

#### **SDS Prepared by:**

BASF NA Product Regulations

SDS Prepared on: 2020/09/11

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

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