

# SAFETY DATA SHEET

US OSHA Hazard Communication Standard (29 CFR 1910.1200) and Canada WHMIS 2015 which includes the amended Hazardous Products Act (HPA) and the Hazardous Products Regulation (HPR)

Issuing Date 18-Aug-2022 Revision Date 18-Aug-2022 Revision Number 1

### 1. Identification

**Product identifier** 

Product Name K&N Synthetic 10W-40 Engine Oil

Other means of identification

Product Code(s) 108062 (Individual); 108066 (Case)

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use Motor Oil

Restrictions on use No information available

Details of the supplier of the safety data sheet

**Supplier Address** 

K&N Engineering, Inc. 1455 Citrus Street Riverside, CA 92507 +1 469-805-6936

Emergency telephone number

Emergency telephone CHEMTREC: +1-703-527-3887 (INTERNATIONAL)

1-800-424-9300 (NORTH AMERICA)

### 2. Hazard(s) identification

Classification

Acute toxicity - Inhalation (Dusts/Mists)

Category 4

Label elements

Warning

**Hazard statements** 

Harmful if inhaled.



#### **Precautionary Statements - Prevention**

Avoid breathing dust, fume, gas, mist, vapors and spray. Use only outdoors or in a well-ventilated area.

#### **Precautionary Statements - Response**

#### Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a doctor if you feel unwell.

#### Other information

May be harmful in contact with skin.

#### Unknown acute toxicity

99 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

# 3. Composition/information on ingredients

#### Substance

Not applicable.

#### Mixture

Chemical name	CAS No	Weight-%	Information Review	Date HMIRA filed and date exemption granted (if applicable)
Lubricating oils (petroleum), C20-50, hydrotreated, neutral oil-based	64742-54-7	> = 75	-	-
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr)esters, zinc salts	84605-29-8	0.5 - 1	-	-

### 4. First-aid measures

### **Description of first aid measures**

**General advice** Show this safety data sheet to the doctor in attendance.

Inhalation Get medical attention if symptoms occur. Remove to fresh air. If symptoms persist, call a

physician. If breathing has stopped, give artificial respiration. Get medical attention

immediately.

Eye contact Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if

symptoms occur.

**Skin contact**Take off contaminated clothing and wash before reuse. Wash skin with soap and water. Get

medical attention if symptoms occur.

**Ingestion**Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious

person. Get medical attention. Rinse mouth thoroughly with water. Get medical attention if

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symptoms occur.

Self-protection of the first aider

Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid breathing vapors or mists. Use personal protective equipment as required. See section 8 for more information.

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

**Symptoms** Coughing and/ or wheezing. Difficulty in breathing.

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

### 5. Fire-fighting measures

**Suitable Extinguishing Media** Dry chemical, CO2, alcohol-resistant foam or water spray.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the

chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

**Explosion data** 

Sensitivity to mechanical impact None. Sensitivity to static discharge None.

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

#### 6. Accidental release measures

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

Personal precautions Ensure adequate ventilation. Avoid breathing vapors or mists. Use personal protective

equipment as required. Avoid contact with skin and eyes.

**Other information** Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Take up with sand, earth or other non-combustible absorbent material. Pick up and transfer

to properly labeled containers.

### 7. Handling and storage

#### Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid breathing

vapors or mists. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Avoid

contact with skin and eyes. Use personal protection equipment.

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

Storage Conditions Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated

place. Keep/store only in original container.

### 8. Exposure controls/personal protection

Control parameters

Exposure Limits This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering controls Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Hand protection** Protective gloves. Nitrile rubber.

**Skin and body protection** Wear suitable protective clothing. Chemical resistant apron.

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or

smoke when using this product.

### 9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Physical state Liquid
Color Amber
Odor Petroleum

Odor threshold No information available

PropertyValuesRemarks • MethodpHNo data availableMelting point / freezing pointNo data available

Initial boiling point and boiling range

No data available

Flash point 234 °C / 453.2 °F

Evaporation rateNo data availableFlammabilityNo data available

Flammability Limit in Air

Upper flammability or explosiveNo data available

limits

Lower flammability or explosive No data available

limits

No data available Vapor pressure Vapor density No data available No data available Relative density Water solubility No data available Solubility(ies) No data available Partition coefficient No data available **Autoignition temperature** No data available **Decomposition temperature** No data available

Kinematic viscosity 141 mm²/s @ 40 °C

Dynamic viscosity

No data available

Other information

Explosive properties

Oxidizing properties

No information available.
No information available.
No information available.
No information available

### 10. Stability and reactivity

**Reactivity** None under normal use conditions.

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions None under normal processing.

**Conditions to avoid** Incompatible materials. High temperature.

**Incompatible materials** Acids. Oxidizing agents.

Hazardous decomposition products Carbon monoxide. Carbon dioxide (CO2).

### 11. Toxicological information

#### Information on likely routes of exposure

#### **Product Information**

Inhalation Specific test data for the substance or mixture is not available. Harmful by inhalation. (based

on components).

Eye contact Specific test data for the substance or mixture is not available. Contact with eyes may cause

irritation.

**Skin contact** Specific test data for the substance or mixture is not available. May be harmful in contact

with skin.

**Ingestion** Specific test data for the substance or mixture is not available. Ingestion may cause

gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** Coughing and/ or wheezing.

**Acute toxicity** 

**Numerical measures of toxicity** 

The following values are calculated based on chapter 3.1 of the GHS document:

ATEmix (inhalation-dust/mist) 2.3023 mg/l

Unknown acute toxicity

99 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

#### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Lubricating oils (petroleum), C20-50,	> 15 g/kg (Rat)	> 5000 mg/kg (Rabbit)	-
hydrotreated, neutral oil-based			

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr)esters, zinc salts	= 3100 mg/kg (Rat) = 3200 mg/kg (Rat)	> 2000 mg/kg(Rabbit)	> 2.3 mg/L (Rat)4 h

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

No information available.

Skin corrosion/irritationNo information available.Serious eye damage/eye irritationNo information available.Respiratory or skin sensitizationNo information available.

Carcinogenicity The classification listed below for the petroleum distillates in this product pertains to those

that contain more than 3% DMSO extract as measured by IP 346. The petroleum distillates

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in this product do not meet that criteria to be classified as carcinogens.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

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Chemical name	ACGIH	IARC	NTP	OSHA		
Lubricating oils (petroleum),	A2	Group 1	Known	X		
C20-50, hydrotreated, neutral						
oil-based						
64742-54-7						

#### Legend

**ACGIH (American Conference of Governmental Industrial Hygienists)** 

A2 - Suspected Human Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans NTP (National Toxicology Program)

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Germ cell mutagenicity

Reproductive toxicity

No information available.

STOT - single exposure

No information available.

STOT - repeated exposure

No information available.

Aspiration hazard

No information available.

### 12. Ecological information

#### **Ecotoxicity**

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Lubricating oils (petroleum), C20-50, hydrotreated, neutral oil-based 64742-54-7	-	LC50: >5000mg/L (96h, Oncorhynchus mykiss)	-	EC50: >1000mg/L (48h, Daphnia magna)
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr)esters, zinc salts 84605-29-8	-	LC50: =4.5mg/L (96h, Oncorhynchus mykiss)	-	EC50: =23mg/L (48h, Daphnia magna)

Persistence and degradability No information available.

#### **Bioaccumulation**

**Component Information** 

Chemical name	Partition coefficient
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and	0.56
iso-Pr)esters, zinc salts	
84605-29-8	

Mobility in soil

No information available.

Other adverse effects

No information available.

### 13. Disposal considerations

#### Waste treatment methods

Waste from residues/unused

products

Dispose of waste in accordance with environmental legislation, Dispose of in accordance

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with local regulations.

Contaminated packaging

Do not reuse empty containers.

California waste information

This product contains one or more substances that are listed with the State of California as

a hazardous waste.

## 14. Transport information

DOTNot regulatedTDGNot regulatedIATANot regulatedIMDGNot regulated

### 15. Regulatory information

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

#### **International Regulations**

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

### **International Inventories**

Contact supplier for inventory compliance status

#### **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	SARA 313 - Threshold Values %
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and	1.0

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#### SARA 311/312 Hazard Categories

iso-Pr)esters, zinc salts - 84605-29-8

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

#### **CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr)esters, zinc salts 84605-29-8	-	X	-	-

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

### **US State Regulations**

### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

#### U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Phosphorodithioic acid, mixed	X	-	X
O,O-bis(1,3-dimethylbutyl and			
iso-Pr)esters, zinc salts			
84605-29-8			

#### U.S. EPA Label Information

#### EPA Pesticide Registration Number Not applicable

### 16. Other information

NFPAHealth hazards2Flammability1Instability0Special hazards-HMISHealth hazards2Flammability1Physical hazards0Personal protectionX

### Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

Key literature references and sources for data used to compile the SDS

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA) EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

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Disclaimer

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.

**End of Safety Data Sheet**