K&N Air Filter Oil Aerosol
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Date of issue: 11/02/2016 Revision date: 05/10/2017 Version: 3.0

SECTION 1: Identification

1.1. Identification
Product form : Mixture
Product name : K&N Air Filter Oil Aerosol
Product code : 99-0504

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture : Lubricant

1.3. Details of the supplier of the safety data sheet
K&N Engineering, Inc.
P.O. Box 1329
Riverside, CA 92502-1329 - USA
T (800) 858-3333 - F (951) 826-4001

1.4. Emergency telephone number
Emergency number : Chemtrec (800) 424-9300 / +1 (703) 527-3887 (CCN 632715)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture
GHS-US classification
Flam. Aerosol 1 : H222 - Extremely flammable aerosol
Press. Gas (Comp.) : H280 - Contains gas under pressure; may explode if heated
Muta. 1B : H340 - May cause genetic defects
Carc. 1A : H350 - May cause cancer
Asp. Tox. 1 : H304 - May be fatal if swallowed and enters airways
Full text of H statements : see section 16

2.2. Label elements
GHS-US labeling
Hazard pictograms (GHS-US) :

GHS02  GHS04  GHS08

Signal word (GHS-US) : Danger
Contains : Petroleum gases, liquefied, sweetened
Hazard statements (GHS-US) :
H222 - Extremely flammable aerosol
H280 - Contains gas under pressure; may explode if heated
H304 - May be fatal if swallowed and enters airways
H340 - May cause genetic defects
H350 - May cause cancer

Precautionary statements (GHS-US) :
P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
P211 - Do not spray on an open flame or other ignition source
P251 - Pressurized container: Do not pierce or burn, even after use
P260 - Wear protective gloves/protective clothing/eye protection/face protection
P301+P310 - If swallowed: Immediately call a doctor
P308+P313 - If exposed or concerned: Get medical advice/attention
P331 - Do NOT induce vomiting
P405 - Store locked up
P410+P403 - Protect from sunlight. Store in a well-ventilated place
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

2.3. Other hazards
No additional information available
2.4. Unknown acute toxicity (GHS US)
Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances
Not applicable

3.2. Mixtures

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS-No.</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates, petroleum, hydrotreated heavy paraffinic</td>
<td>64742-54-7</td>
<td>&lt; 100</td>
<td>Carc. 1B, H350</td>
</tr>
<tr>
<td>Petroleum gases, liquefied, sweetened</td>
<td>68476-86-8</td>
<td>15-25</td>
<td>Flam. Gas 1, H220; Mut. 1B, H340; Carc. 1A, H350</td>
</tr>
<tr>
<td>1-Decene, homopolymer, hydrogenated</td>
<td>68037-01-4</td>
<td>&lt;= 3</td>
<td>Not classified</td>
</tr>
<tr>
<td>C.I. Solvent Red 164</td>
<td>71819-51-7</td>
<td>&lt;=0.1</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

Full text of hazard classes and H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general: Call a physician immediately. Concerning personal protective equipment to use, see item 8.

First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact: Wash skin with plenty of water.

First-aid measures after eye contact: Rinse eyes with water as a precaution.

First-aid measures after ingestion: Do not induce vomiting. Call a physician immediately.

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

Symptoms/effects after ingestion: Risk of lung edema.

Chronic symptoms: None known.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media


Unsuitable extinguishing media: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard: Extremely flammable aerosol.

Explosion hazard: Pressurized container: may burst if heated.

Reactivity: Extremely flammable aerosol. Pressurized container: may burst if heated.

5.3. Advice for firefighters

Protection during firefighting: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures: Avoid contact with skin and eyes. Avoid breathing dust, mist or spray.

6.1.1. For non-emergency personnel

Protective equipment: Wear personal protective equipment.

Emergency procedures: Evacuate unnecessary personnel. Only qualified personnel equipped with suitable protective equipment may intervene.

6.1.2. For emergency responders

Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures: Stop leak if safe to do so. Eliminate ignition sources. Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.
6.3. Methods and material for containment and cleaning up

For containment:
Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or public waters.

Methods for cleaning up:
In case of large spillages: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Shovel or sweep up and put in a closed container for disposal. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Notify authorities if product enters sewers or public waters.

Other information:
Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling:
Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Provide local exhaust or general room ventilation. Wear personal protective equipment.

Hygiene measures:
Separate working clothes from town clothes. Launder separately. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions:
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store locked up. Store in a well-ventilated place. Keep cool.

Incompatible products:

Maximum storage period:
5 years

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Compound</th>
<th>Control parameters</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Decene, homopolymer, hydrogenated (68037-01-4)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Petroleum gases, liquefied, sweetened (68476-86-8)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>C.I. Solvent Red 164 (71819-51-7)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Distillates, petroleum, hydrotreated heavy paraffinic (64742-54-7)</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

<table>
<thead>
<tr>
<th>Protection</th>
<th>Control parameters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appropriate engineering controls</td>
<td>Ensure good ventilation of the work station.</td>
</tr>
<tr>
<td>Hand protection</td>
<td>Protective gloves.</td>
</tr>
<tr>
<td>Eye protection</td>
<td>Safety glasses.</td>
</tr>
<tr>
<td>Skin and body protection</td>
<td>Wear suitable protective clothing.</td>
</tr>
<tr>
<td>Respiratory protection</td>
<td>In case of insufficient ventilation, wear suitable respiratory equipment.</td>
</tr>
<tr>
<td>Thermal hazard protection</td>
<td>Not available.</td>
</tr>
<tr>
<td>Environmental exposure controls</td>
<td>Avoid release to the environment.</td>
</tr>
</tbody>
</table>

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Oily.</td>
</tr>
<tr>
<td>Color</td>
<td>red</td>
</tr>
<tr>
<td>Odor</td>
<td>Odourless.</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
</tr>
</tbody>
</table>

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**pH**: No data available
**Melting point**: Not applicable
**Freezing point**: No data available
**Boiling point**: > 260 °C (500 °F)
**Flash point**: > -94 °C (-137.2 °F)
**Relative evaporation rate (butyl acetate=1)**: No data available
**Flammability (solid, gas)**: No data available
**Explosion limits**: Not applicable
**Explosive properties**: Pressurized container: may burst if heated.
**Oxidizing properties**: No data available
**Vapor pressure**: No data available
**Relative density**: 0.864
**Relative vapor density at 20 °C**: Not applicable
**Solubility**: No data available
**Log Pow**: No data available
**Auto-ignition temperature**: No data available
**Decomposition temperature**: No data available
**Viscosity**: No data available
**Viscosity, kinematic**: >= 7.5 cSt
**Viscosity, dynamic**: No data available

9.2. Other information
**Minimum ignition energy**: *

**SECTION 10: Stability and reactivity**

10.1. Reactivity
Extremely flammable aerosol. Pressurized container: may burst if heated.

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid
Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

10.6. Hazardous decomposition products

**SECTION 11: Toxicological information**

11.1. Information on toxicological effects
**Likely routes of exposure**: Oral; Dermal
**Acute toxicity**: Not classified

**Distillates, petroleum, hydrotreated heavy paraffinic (64742-54-7)**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>&gt; 2000 mg/kg</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>&gt; 2 g/kg</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Not classified</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>Not classified</td>
</tr>
<tr>
<td>Respiratory or skin sensitization</td>
<td>Not classified</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>May cause genetic defects.</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>May cause cancer.</td>
</tr>
</tbody>
</table>
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Reproductive toxicity : Not classified
Specific target organ toxicity – single exposure : Not classified
Specific target organ toxicity – repeated exposure : Not classified

Aspiration hazard : May be fatal if swallowed and enters airways.
Symptoms/effects after ingestion : Risk of lung edema.
Chronic symptoms : None known.

SECTION 12: Ecological information

12.1. Toxicity
Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

<table>
<thead>
<tr>
<th>Distillates, petroleum, hydrotreated heavy paraffinic (64742-54-7)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1 &gt; 5000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)</td>
</tr>
<tr>
<td>EC50 Daphnia 1 &gt; 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability
No additional information available

12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Petroleum gases, liquefied, sweetened (68476-86-8)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Log Pow &lt;= 2.8</td>
</tr>
</tbody>
</table>

12.4. Mobility in soil
No additional information available

12.5. Other adverse effects
Effect on global warming : No known effects from this product.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations : Do not allow into drains or water courses.
Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

Department of Transportation (DOT)
In accordance with DOT
Transport document description : UN1950 Aerosols (flammable, n.o.s. (engine starting fluid) (each not exceeding 1 L capacity)), 2.1

UN-No.(DOT) : UN1950
Proper Shipping Name (DOT) : Aerosols
flammable, n.o.s. (engine starting fluid) (each not exceeding 1 L capacity)
Class (DOT) : 2.1 - Class 2.1 - Flammable gas 49 CFR 173.115
Hazard labels (DOT) : 2.1 - Flammable gas

DOT Packaging Non Bulk (49 CFR 173.xxx) : 304
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DOT Packaging Bulk (49 CFR 173.xxx) : None
DOT Packaging Exceptions (49 CFR 173.xxx) : 306
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : Forbidden
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 150 kg
DOT Vessel Stowage Location : A - The material may be stowed “on deck” or “under deck” on a cargo vessel and on a passenger vessel.
DOT Vessel Stowage Other : 25 - Shade from radiant heat, 87 - Stow “separated from” Class 1 (explosives) except Division 14, 126 - Segregation same as for Class 9, miscellaneous hazardous materials

Other information : No supplementary information available.

Transport by sea
UN-No. (IMDG) : 1950
Proper Shipping Name (IMDG) : AEROSOLS
Class (IMDG) : 2 - Gases

Air transport
UN-No. (IATA) : 1950
Proper Shipping Name (IATA) : Aerosols, flammable (engine starting fluid)
Class (IATA) : 2
PCA limited quantity max net quantity (IATA) : Forbidden
PCA max net quantity (IATA) : Forbidden

SECTION 15: Regulatory information

15.1. US Federal regulations
This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

1-Decene, homopolymer, hydrogenated (68037-01-4)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
EPA TSCA Regulatory Flag : XU - XU - indicates a substance exempt from reporting under the Inventory Update Reporting Rule, i.e., Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C)).

Petroleum gases, liquefied, sweetened (68476-86-8)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Distillates, petroleum, hydrotreated heavy paraffinic (64742-54-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

National regulations
K&N Air Filter Oil Aerosol
All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

1-Decene, homopolymer, hydrogenated (68037-01-4)
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSG (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on CiICR (Turkish Inventory and Control of Chemicals)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Petroleum gases, liquefied, sweetened (68476-86-8)
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on INSD (Mexican National Inventory of Chemical Substances)
Listed on the TCSI (Taiwan Chemical Substance Inventory)

C.I. Solvent Red 164 (71819-51-7)
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the TCSI (Taiwan Chemical Substance Inventory)

Distillates, petroleum, hydrotreated heavy paraffinic (64742-54-7)
Listed on the AICS (Australian Inventory of Chemical Substances)
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Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on CICR (Turkish Inventory and Control of Chemicals)
Listed on the TCSI (Taiwan Chemical Substance Inventory)

15.3. US State regulations
California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information
Revision date : 05/10/2017
Full text of H-phrases:

<table>
<thead>
<tr>
<th>H-Phrase</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H220</td>
<td>Extremely flammable gas</td>
</tr>
<tr>
<td>H222</td>
<td>Extremely flammable aerosol</td>
</tr>
<tr>
<td>H280</td>
<td>Contains gas under pressure; may explode if heated</td>
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<td>May be fatal if swallowed and enters airways</td>
</tr>
<tr>
<td>H340</td>
<td>May cause genetic defects</td>
</tr>
<tr>
<td>H350</td>
<td>May cause cancer</td>
</tr>
</tbody>
</table>

NFPA health hazard : 3 - Materials that, under emergency conditions, can cause serious or permanent injury.
NFPA fire hazard : 4 - Materials that rapidly or completely vaporize at atmospheric pressure and normal ambient temperature or that are readily dispersed in air and burn readily.
NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.

Hazard Rating
Health : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
         * - Chronic (long-term) health effects may result from repeated overexposure
Flammability : 0 Minimal Hazard - Materials that will not burn
Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

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