

## 1 Identification

- **Product identifier**
- **Trade name:** Super Lube® Syncopen® Synthetic Penetrant Aerosol
- **Other means of identification:** No other identifiers
- **Recommended use and restriction on use**
- **Recommended use:**  
Penetrating oil  
Lubricant
- **Restrictions on use:** No relevant information available.
- **Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**  
Kano Laboratories LLC  
24 DaVinci Dr., P.O. Box 405  
Bohemia, NY 11716  
Telephone: 631-567-5300  
Email: info@super-lube.com
- **Emergency telephone number:**  
ChemTel  
1-800-255-3924 (US/Canada), 1-813-248-0585 (International), 1-300-954-583 (Australia),  
0-800-591-6042 (Brazil), 400-120-0751 (China), 000-800-100-4086 (India), 800-099-0731 (Mexico)

## 2 Hazard(s) identification

- **Classification of the substance or mixture**  
Flam. Aerosol 1 H222 Extremely flammable aerosol.  
Press. Gas H280 Contains gas under pressure; may explode if heated.  
Skin Irrit. 2 H315 Causes skin irritation.  
STOT SE 3 H336 May cause drowsiness or dizziness.  
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

- **Label elements**

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms:**



GHS02 GHS04 GHS07 GHS08

- **Signal word:** Danger
- **Hazard statements:**  
H222 Extremely flammable aerosol.  
H280 Contains gas under pressure; may explode if heated.  
H315 Causes skin irritation.  
H336 May cause drowsiness or dizziness.  
H304 May be fatal if swallowed and enters airways.

- **Precautionary statements:**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

(Cont'd. on page 2)

# Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: April 1, 2024

**Trade name: Super Lube® Syncopen® Synthetic Penetrant Aerosol**

(Cont'd. of page 1)







- P211 Do not spray on an open flame or other ignition source.  
 P251 Pressurized container: Do not pierce or burn, even after use.  
 P261 Avoid breathing mist/vapors/spray.  
 P264 Wash thoroughly after handling.  
 P271 Use only outdoors or in a well-ventilated area.  
 P280 Wear protective gloves and eye protection.  
 P301+P310 If swallowed: Immediately call a poison center/doctor.  
 P331 Do NOT induce vomiting.  
 P302+P352 If on skin: Wash with plenty of water.  
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P332+P313 If skin irritation occurs: Get medical advice/attention.  
 P362+P364 Take off contaminated clothing and wash it before reuse.  
 P403 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 in accordance with local/regional/national/international regulations.

· **Other hazards** There are no other hazards not otherwise classified that have been identified.

## 3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Components:**

|            |  |         |
|------------|--|---------|
| 64742-47-8 | Distillates (petroleum), hydrotreated light<br> Asp. Tox. 1, H304<br> Flam. Liq. 4, H227   | 50-100% |
| 142-82-5   | heptane<br> Flam. Liq. 2, H225<br> Asp. Tox. 1, H304<br> Skin Irrit. 2, H315; STOT SE 3, H336 | 10-25%  |
| 124-38-9   | carbon dioxide<br> Press. Gas, H280   | 2.5-10% |

· **Additional information:**

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret.  
 For the wording of the listed Hazard Statements, refer to section 16.

## 4 First-aid measures

· **Description of first aid measures**

· **After inhalation:**

Supply fresh air; consult doctor in case of complaints.  
 Provide oxygen treatment if affected person has difficulty breathing.

· **After skin contact:**

Immediately remove any clothing soiled by the product.  
 Immediately wash with water and soap and rinse thoroughly.  
 If skin irritation continues, consult a doctor.

· **After eye contact:**

Remove contact lenses if worn.

(Cont'd. on page 3)

# Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: April 1, 2024

**Trade name: Super Lube® Syncopen® Synthetic Penetrant Aerosol**

(Cont'd. of page 2)

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:**

Unlikely route of exposure.

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

A person vomiting while lying on their back should be turned onto their side.

· **Most important symptoms and effects, both acute and delayed:**

Frostbite

Coughing

Breathing difficulty

Dizziness

Nausea

Slight irritant effect on eyes.

Irritant to skin and mucous membranes.

· **Danger:**

Danger of pulmonary edema.

Danger of pneumonia.

Danger of impaired breathing.

· **Indication of any immediate medical attention and special treatment needed:**

If swallowed, gastric irrigation with added, activated carbon.

If swallowed or in case of vomiting, danger of entering the lungs.

Medical supervision for at least 48 hours.

If necessary oxygen respiration treatment.

Later observation for pneumonia and pulmonary edema.

Treat frost-bitten areas appropriately.

## 5 Fire-fighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:**

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray.

· **For safety reasons unsuitable extinguishing agents:** Water stream.

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

Formation of toxic gases is possible during heating or in case of fire.

Danger of receptacles bursting because of high vapor pressure if heated.

· **Advice for firefighters**

· **Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

· **Additional information:**

Eliminate all ignition sources if safe to do so.

Leaking gas fire: Do not extinguish, unless leak can be stopped safely.

Cool endangered containers with water fog.

## 6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**

Use respiratory protective device against the effects of fumes/dust/aerosol.

(Cont'd. on page 4)

# Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: April 1, 2024

**Trade name: Super Lube® Syncopen® Synthetic Penetrant Aerosol**

(Cont'd. of page 3)

Particular danger of slipping on leaked/spilled product.  
Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation.  
Keep away from ignition sources.  
Protect from heat.

· **Environmental precautions**

Do not allow to enter sewers/ surface or ground water.  
Inform respective authorities in case of seepage into water course or sewage system.

· **Methods and material for containment and cleaning up**

Absorb with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders).  
Do not flush with water or aqueous cleansing agents  
Send for recovery or disposal in suitable receptacles.

· **Reference to other sections**

See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## 7 Handling and storage

· **Handling**

· **Precautions for safe handling:**

Keep out of reach of children.  
Use only in well ventilated areas.  
Keep away from heat and direct sunlight.  
Avoid splashes or spray in enclosed areas.

· **Information about protection against explosions and fires:**

Protect against electrostatic charges.  
Emergency cooling must be available in case of nearby fire.  
Keep ignition sources away - Do not smoke.  
Do not spray on a naked flame or any incandescent material.  
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 120 °F / 49 °C, i.e. electric lights. Do not pierce or burn, even after use.

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

· **Requirements to be met by storerooms and receptacles:**

Observe official regulations on storing packagings with pressurized containers.  
Avoid storage near extreme heat, ignition sources or open flame.

· **Information about storage in one common storage facility:**

Store away from foodstuffs.  
Store away from oxidizing agents.

· **Further information about storage conditions:**

Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

· **Specific end use(s)** No relevant information available.

## 8 Exposure controls/personal protection

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

(Cont'd. on page 5)

# Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: April 1, 2024

Trade name: Super Lube® Syncopen® Synthetic Penetrant Aerosol

(Cont'd. of page 4)

## 64742-47-8 Distillates (petroleum), hydrotreated light

|             |  |
|-------------|--|
| EL (Canada) | Long-term value: 200 mg/m <sup>3</sup><br>Skin |
|-------------|--|

## 142-82-5 heptane

|               |   |
|---------------|---|
| PEL (USA)     | Long-term value: 2000 mg/m <sup>3</sup> , 500 ppm   |
| REL (USA)     | Long-term value: 350 mg/m <sup>3</sup> , 85 ppm<br>Ceiling limit value: 1800* mg/m <sup>3</sup> , 440* ppm<br>*15-min |
| TLV (USA)     | Short-term value: 2050 mg/m <sup>3</sup> , 500 ppm<br>Long-term value: 1640 mg/m <sup>3</sup> , 400 ppm               |
| EL (Canada)   | Short-term value: 500 ppm<br>Long-term value: 400 ppm   |
| EV (Canada)   | Short-term value: 2045 mg/m <sup>3</sup> , 500 ppm<br>Long-term value: 1635 mg/m <sup>3</sup> , 400 ppm               |
| LMPE (Mexico) | Short-term value: 500 ppm<br>Long-term value: 400 ppm   |

## 124-38-9 carbon dioxide

|               |   |
|---------------|---|
| PEL (USA)     | Long-term value: 9000 mg/m <sup>3</sup> , 5000 ppm  |
| REL (USA)     | Short-term value: 54,000 mg/m <sup>3</sup> , 30,000 ppm<br>Long-term value: 9000 mg/m <sup>3</sup> , 5000 ppm   |
| TLV (USA)     | Short-term value: 54,000 mg/m <sup>3</sup> , 30,000 ppm<br>Long-term value: 9000 mg/m <sup>3</sup> , 5000 ppm   |
| EL (Canada)   | Short-term value: 15000 ppm<br>Long-term value: 5000 ppm  |
| EV (Canada)   | Short-term value: 54,000 mg/m <sup>3</sup> , 30,000 ppm<br>Long-term value: 9,000 mg/m <sup>3</sup> , 5,000 ppm |
| LMPE (Mexico) | Short-term value: 30000 ppm<br>Long-term value: 5000 ppm  |

### · Exposure controls

#### · General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Do not inhale gases / fumes / aerosols.  
Avoid contact with the eyes and skin.

#### · Engineering controls: No relevant information available.

#### · Breathing equipment:

Not required under normal conditions of use.  
Use suitable respiratory protective device in case of insufficient ventilation.  
For spills, respiratory protection may be advisable.

#### · Protection of hands:



Protective gloves

(Cont'd. on page 6)

# Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: April 1, 2024

**Trade name: Super Lube® Syncopen® Synthetic Penetrant Aerosol**

(Cont'd. of page 5)

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· **Eye protection:**



Safety glasses

· **Body protection:** Protective work clothing

· **Limitation and supervision of exposure into the environment**

No relevant information available.

· **Risk management measures** No relevant information available.

## 9 Physical and chemical properties

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

· **Appearance:**

Form: Aerosol

Color: Translucent

· **Odor:** Solvent-like

· **Odor threshold:** Not determined.

· **pH-value:** Not determined.

· **Melting point/Melting range:** Not applicable, as aerosol.

· **Boiling point/Boiling range:** Not applicable, as aerosol.

· **Flash point:** Extremely flammable aerosol.

· **Flammability (solid, gaseous):** Extremely flammable aerosol.

· **Auto-ignition temperature:** 210 °C (410 °F)

· **Decomposition temperature:** Not determined.

· **Danger of explosion:** Not determined.

· **Explosion limits**

Lower: 1.1 Vol %

Upper: 7 Vol %

· **Oxidizing properties:** Non-oxidizing.

· **Vapor pressure:** Not determined.

· **Density:**

Relative density: Not determined.

Vapor density: Not determined.

Evaporation rate: Not applicable.

· **Solubility in / Miscibility with**

Water: Not miscible or difficult to mix.

· **Partition coefficient (n-octanol/water):** Not determined.

· **Viscosity**

Dynamic: Not determined.

Kinematic: Not determined.

(Cont'd. on page 7)

# Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: April 1, 2024

Trade name: Super Lube® Syncopen® Synthetic Penetrant Aerosol

(Cont'd. of page 6)

· **Other information** No relevant information available.

## 10 Stability and reactivity

- **Reactivity:** No relevant information available.
- **Chemical stability:**
- **Thermal decomposition / conditions to be avoided:**  
Danger of receptacles bursting because of high vapor pressure if heated.
- **Possibility of hazardous reactions**  
Develops readily flammable gases / fumes.  
Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomized.  
Extremely flammable aerosol.  
Used empty containers may contain product gases which form explosive mixtures with air.  
Reacts with strong oxidizing agents.  
Toxic fumes may be released if heated above the decomposition point.
- **Conditions to avoid**  
Keep ignition sources away - Do not smoke.  
Keep away from heat and direct sunlight.
- **Incompatible materials** Oxidizers
- **Hazardous decomposition products** Carbon monoxide and carbon dioxide

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:** Based on available data, the classification criteria are not met.

· **LD/LC50 values that are relevant for classification:**

**64742-47-8 Distillates (petroleum), hydrotreated light**

|        |      |                      |
|--------|------|----------------------|
| Oral   | LD50 | > 5000 mg/kg (rat)   |
| Dermal | LD50 | >2000 mg/kg (rabbit) |

**142-82-5 heptane**

|            |         |                               |
|------------|---------|-------------------------------|
| Oral       | LD50    | > 5000 mg/kg (rat) (Estimate) |
| Inhalative | LC50/4h | 103 mg/l (rat)                |

- **Primary irritant effect:**
- **On the skin:** Irritant to skin and mucous membranes.
- **On the eye:** Based on available data, the classification criteria are not met.
- **Sensitization:** No sensitizing effects known.

· **IARC (International Agency for Research on Cancer):**

None of the ingredients are listed.

· **NTP (National Toxicology Program):**

None of the ingredients are listed.

· **OSHA-Ca (Occupational Safety & Health Administration):**

(Cont'd. on page 8)

# Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: April 1, 2024

**Trade name: Super Lube® Syncopen® Synthetic Penetrant Aerosol**

(Cont'd. of page 7)

None of the ingredients are listed.

· **Probable route(s) of exposure:**

Inhalation.

Eye contact.

Skin contact.

· **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.

· **Carcinogenicity:** Based on available data, the classification criteria are not met.

· **Reproductive toxicity:** Based on available data, the classification criteria are not met.

· **STOT-single exposure:** May cause drowsiness or dizziness.

· **STOT-repeated exposure:** Based on available data, the classification criteria are not met.

· **Aspiration hazard:** May be fatal if swallowed and enters airways.

## 12 Ecological information

· **Toxicity**

· **Aquatic toxicity** Toxic for aquatic organisms

· **Persistence and degradability** No relevant information available.

· **Bioaccumulative potential:** No relevant information available.

· **Mobility in soil:** No relevant information available.

· **Additional ecological information**

· **General notes:** Do not allow product to reach ground water, water course or sewage system.

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Other adverse effects** No relevant information available.

## 13 Disposal considerations

· **Waste treatment methods**

· **Recommendation:**

Contact waste processors for recycling information.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

· **Uncleaned packagings**

· **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

· **UN-Number**

· **DOT, ADR, IMDG, IATA**

UN1950

· **UN proper shipping name**

· **DOT**

Aerosols

· **ADR, IMDG**

AEROSOLS

(Cont'd. on page 9)



# Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: April 1, 2024

**Trade name: Super Lube® Syncopen® Synthetic Penetrant Aerosol**

(Cont'd. of page 8)

· IATA Aerosols, flammable

· **Transport hazard class(es)**

· DOT



· Class 2.1  
· Label 2.1

· ADR



· Class 2.5F  
· Label 2.1

· IMDG, IATA



· Class 2.1  
· Label 2.1

· **Packing group** Aerosols are not assigned a packing group.

· **Environmental hazards** Product contains environmentally hazardous substances: heptane

· **Marine pollutant:**



Yes

· **Special precautions for user** Warning: Gases  
· **Danger code (Kemler):** -  
· **EMS Number:** F-D,S-U

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

· **Transport/Additional information:**

· DOT



Limited Quantity for packages less than 30 kg gross and inner packagings less than 1 L.

· ADR

(Cont'd. on page 10)

# Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: April 1, 2024

Trade name: Super Lube® Syncopen® Synthetic Penetrant Aerosol

(Cont'd. of page 9)



Limited Quantity for packages less than 30 kg gross and inner packagings less than 1 L.

· **IMDG**

Limited Quantity for packages less than 30 kg gross and inner packagings less than 1 L.

· **IATA**

Limited Quantity for packages less than 30 kg gross and inner packagings less than 1 L.

## 15 Regulatory information

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

- **United States (USA)**
- **SARA**

- **Section 302 (extremely hazardous substances):**

None of the ingredients are listed.

- **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

- **Section 313 (Specific toxic chemical listings):**

None of the ingredients are listed.

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

All ingredients are listed.

- **Proposition 65 (California)**

- **Chemicals known to cause cancer:**

None of the ingredients are listed.

- **Chemicals known to cause developmental toxicity for females:**

None of the ingredients are listed.

- **Chemicals known to cause developmental toxicity for males:**

None of the ingredients are listed.

- **Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

- **EPA (Environmental Protection Agency):**

142-82-5 | heptane

D

- **IARC (International Agency for Research on Cancer):**

None of the ingredients are listed.

(Cont'd. on page 11)

# Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: April 1, 2024

**Trade name: Super Lube® Syncopen® Synthetic Penetrant Aerosol**

(Cont'd. of page 10)

**Canadian Domestic Substances List (DSL) (Substances not listed.):**

All ingredients are listed.

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Abbreviations and acronyms:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
 IMDG: International Maritime Code for Dangerous Goods  
 DOT: US Department of Transportation  
 IATA: International Air Transport Association  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bio-accumulable, Toxic  
 vPvB: very Persistent and very Bioaccumulative  
 OSHA: Occupational Safety & Health Administration  
 Flam. Aerosol 1: Aerosols – Category 1  
 Press. Gas: Gases under pressure – Compressed gas  
 Press. Gas: Gases under pressure – Liquefied gas  
 Flam. Liq. 2: Flammable liquids – Category 2  
 Flam. Liq. 4: Flammable liquids – Category 4  
 Skin Irrit. 2: Skin corrosion/irritation – Category 2  
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
 Asp. Tox. 1: Aspiration hazard – Category 1

**Sources**

Website, European Chemicals Agency (echa.europa.eu)  
 Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)  
 Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)  
 Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6  
 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.  
 Safety Data Sheets, Individual Manufacturers

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