

Safety Data Sheet

SECTION 1: Identification

Contact information

General

vizgen

Vizgen, Inc.
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Cambridge, MA 02138
Main: +1 (833) 222-8206
E-mail: info@vizgen.com

Emergency telephone number

Chemtec (24-hour availability):
+1 (800) 424-9300 (USA and Canada),
+1 (703) 527-3887 (International, collect calls accepted)

直リノ禁止
平松育子獣医師が調べて下さったワセリン毒性の文献資料

【獣医師監修】犬にワセリンは大丈夫/注意点やアレルギー-副作用とか
いびなっヒ <https://toipu.net>

Product identifier

Mineral Oil (White petrolatum), White Mineral Oil (Petrolatum) **白色ワセリン**

Product number

30300275

Trade name

Not available

Chemical family

Aromatic Hydrocarbons

Recommended uses and restrictions

Reagent for research and development purposes only.

Note

This SDS is written to address potential worker health and safety issues associated with the handling of the formulated product/mixture. Workers manufacturing this product/mixture should consult the SDS of each hazardous ingredient for hazard information and handling recommendations. This SDS will be revisited if more data become available.

SECTION 2: Hazard(s) identification

Classification of the substance or mixture

Not classified

Label elements

GHS Hazard pictograms

Not applicable

GHS Signal word

Not applicable

GHS Hazard statements

Not applicable

GHS Precautionary statements

Not applicable

Other hazards

Oral or inhalation exposure to lipid-like products can induce exogenous lipid pneumonia in adults. In a retrospective study, 4 of 44 cases were associated with inhalation exposure to mineral oil products in occupational settings. This substance does not meet criteria for classification under GHS as implemented by Regulation EC No 1272/2008 (EU CLP), WHMS 2015 (Health Canada), and Hazard Communication Standard No. 1910.1200 (US OSHA). Nevertheless, it should be handled with caution as it has not yet been fully tested.

SECTION 3: Composition/Information on ingredients

| Ingredient | CAS number | EINECS/ELINCS# | Amount | GHS classification |
|---------------------------------------------------|------------|----------------|---------|--------------------|
| Mineral Oil (White petrolatum) (Main constituent) | 8042-47-5 | 232-455-8 | ~ 100 % | Not classified |

Note The substance listed above is not classified, but is listed because it has OELs and the toxicological properties have not yet been fully characterized.

SECTION 4: First-aid measures

Description of first aid measures

Immediate medical attention and special treatment, if necessary

No. If exposed or concerned, get medical advice/attention.

Inhalation

Immediately move exposed subject to fresh air. If not breathing, give artificial respiration. If breathing is labored, administer oxygen. Immediately notify medical personnel and supervisor.

Eye contact

If easy to do, remove contact lenses, if worn. Immediately flush eyes with copious quantities of water for at least 15 minutes. If irritation occurs or persists, notify medical personnel and supervisor.

Ingestion

If swallowed, call a physician immediately. Do not induce vomiting unless directed by medical personnel. Do not give anything to drink unless directed by medical personnel. Never give anything by mouth to an unconscious person. Notify medical personnel and supervisor.

Most Important Symptoms/Effects

Medical conditions aggravated by exposure: None known or reported. Treat symptomatically and supportively.

Expected Symptoms/Effects, Acute and Delayed

See Sections 2 and 11

SECTION 5: Fire-fighting measures

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media

Use water spray (fog), foam, dry powder, or carbon dioxide, as appropriate for surrounding fire and materials.

Specific hazards arising from the chemical

No information identified. May emit carbon monoxide, carbon dioxide, oxides of nitrogen and other nitrogen- and sulfur-containing compounds.

Fire hazard identified.

No information identified.

Explosion hazard

No information.

Special protective equipment and precautions for fire-fighters

Firefighting instructions

In case of fire in the surroundings: use the appropriate extinguishing agent. Wear full protective clothing and an approved, positive pressure, self-contained breathing apparatus. Decontaminate all equipment after use.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Protective equipment

If product is released or spilled, take proper precautions to minimize exposure by using appropriate personal protective equipment (see Section 8). Area should be adequately ventilated.

Emergency procedures

Do not breathe vapors/mist/spray.

Environmental precautions

Do not empty into drains. Avoid release to the environment.

Methods and material for containment and cleaning up

Methods for cleaning up

DO NOT CAUSE MATERIAL TO BECOME AIRBORNE. For small spills, soak up material with absorbent, e.g. paper towels. For large spills, cordon off spill area and minimize the spreading of spilled material. Soak up material with absorbent. Collect spilled material, absorbent, and rinse water into suitable containers for proper disposal in accordance with applicable waste disposal regulations (see Section 13). Decontaminate the area twice with an appropriate solvent. Dispose of materials or solid residues at an authorized site. See Sections 8 and 13 for more information.

Other information

Reference to other sections

SECTION 7: Handling and storage

Precautions for safe handling

Follow recommendations for handling bulk formulated biochemical reagents (i.e. use of engineering controls and/or other personal protective equipment if needed). Avoid contact with eyes, skin and other mucous membranes. Wash thoroughly after handling. Do not breathe vapors/mist/spray.

Conditions for safe storage, including any incompatibilities

Storage conditions

20 – 25 °C

Storage temperature

Specific end use(s)

Research and development.

SECTION 8: Exposure controls/personal protection

Note

Wash hands, face and other potentially exposed areas immediately in the event of physical contact.

Control parameters/Occupational Exposure Limits

| Name | Issuer | Value |
|--------------------------------|--------------------------------|-------------------------------------------------------------------|
| Mineral Oil (White petrolatum) | ACGIH TWA (mg/m ³) | 5 mg/m ³ (inhalable fraction, pure and highly refined) |

Appropriate engineering controls

Control exposures to below the OEL(s). Selection and use of containment devices and personal protective equipment should be based on a risk assessment of exposure potential. Use local exhaust and/or enclosure at aerosol/mist-generating points. Use engineered local exhaust ventilation (LEV) and/or enclosure for procedures where aerosolization may occur such as opened transfers, pumping, and spraying. All containers for solutions and slurries must be covered while being transferred. Choice of respiratory protection should be appropriate to the task and the level of existing engineering controls. At a minimum, a tight-fitting full-face respirator with HEPA filters is required when performing aerosol-generating operations. A powered air-purifying respirator (PAPR) with HEPA filters and head cover is required for spill cleanup.

Respiratory protection

Wear nitrile or other impervious gloves if skin contact is possible. When the material is dissolved or suspended in an organic solvent, wear gloves that provide protection against the solvent.

Hand protection

Wear safety glasses with side shields, chemical splash goggles, or full face shield, if necessary. Base the choice of protection on the job activity and potential for contact with eyes or face. An emergency eye wash station should be available.

Eye protection

Skin and body protection

Wear disposable coveralls appropriate to the task, booties, two pairs of gloves and safety glasses with side shields. Protective garments (coveralls, disposable coveralls, lab coats) are not to be worn in common areas (e.g., cafeterias) or out-of-doors. Employees must be trained in proper gowning and degowning practices. An anteroom or transition area must be used for gowning and degowning.

Other protective measures

Wash hands in the event of contact with this substance, especially before eating, drinking or smoking. Protective equipment is not to be worn outside the work area (e.g., in common areas or out-of-doors).

Environmental exposure controls

Avoid release to the environment and operate within closed systems wherever practicable. Air and liquid emissions should be directed to appropriate pollution control devices. In case of spill, do not release to drains. Implement appropriate and effective emergency response procedures to prevent release or spread of contamination and to prevent inadvertent contact by personnel.

SECTION 9: Physical and chemical properties

| | |
|---------------------------------------------|----------------------|
| Physical state | Liquid (viscous) |
| Appearance | Clear |
| Chemical stability | Clear, colorless. |
| Formula | Varies |
| Molecular mass | 480-500 |
| Color | Clear, colorless. |
| Odor | Characteristic odor. |
| Odor threshold | No data available |
| pH | No data available |
| Melting point | No data available |
| Freezing point | No data available |
| Boiling point | No data available |
| Flash point | No data available |
| Relative evaporation rate (butyl acetate=1) | No data available |
| Flammability (solid, gas) | No data available |
| Vapor pressure | No data available |
| Relative vapor density at 20 °C | No data available |
| Relative density | No data available |
| Solubility | Insoluble in water. |
| Log Pow | No data available |
| Auto-ignition temperature | No data available |
| Decomposition temperature | No data available |
| Viscosity, kinematic | No data available |
| Viscosity, dynamic | No data available |
| Explosion limits | No data available |
| Explosive properties | No data available |
| Oxidizing properties | No data available |

SECTION 10: Stability and reactivity

| | |
|------------------------------------|------------------------------------------------------------------------------------------------------|
| Reactivity | The product is non-reactive under normal conditions of use, storage and transport. |
| Chemical stability | Stable under normal conditions. |
| Possibility of hazardous reactions | No dangerous reactions known under normal conditions of use. |
| Conditions to avoid | None under recommended storage and handling conditions (see section 7). |
| Incompatible materials | No data available |
| Hazardous decomposition products | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

SECTION 11: Toxicological information

毒性学的情報

平松育子獣医師が調べて下さったワセリン毒性の文献資料

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Note

The toxicological properties of this substance have been absorbed by inhalation, skin contact and ingestion.

Toxicological Information Acute toxicity

Component

Type

| | | |
|--------------------------------|----------------------|--------------|
| Mineral Oil (White petrolatum) | LD50 oral (rat) | > 5000 mg/kg |
| | LD50 oral (mouse) | > 5000 mg/kg |
| | LD50 dermal (rabbit) | > 3000 mg/kg |

Additional information

The acute toxicity of highly refined mineral oils is relatively low. With increasing chain length, they are less readily absorbed and metabolized after ingestion.

Serious eye damage/irritation

Mineral oil was not considered irritating to eyes in rabbits.

Skin corrosion/irritation

Mineral oil was not considered irritating to skin in rabbits.

Sensitization

Mineral oil was not considered to be a sensitizer in guinea pigs.

STOT-single exposure

Mild inflammatory reactions occurred in the lungs of mice following inhalation exposure to concentrations of 200 mg/m³ for 4 hours.

STOT-repeated exposure

Rat NOAEL (oral) = 1600 mg/kg/day; Rat LOAEL (oral) = 160 mg/kg/day. Target organs: Lungs, tracheobronchial lymph nodes

Reproductive toxicity

In long-term studies with rats and dogs, mineral oils induced adverse effects in the lungs (microgranulomas) at inhalation concentrations of ≥100 mg/m³.

Developmental toxicity

In a study (OECD Test Guideline 421) in rats, no adverse effects on reproduction were found compared to untreated control animals after dermal application of 1 ml white mineral oil/kg body weight and day (about 850 mg/kg body weight).

Genotoxicity

While mineral oil was not associated with any adverse effects on embryo development in rats administered oral doses of up to 5000 mg/kg body weight, or after inhalation exposure to a concentration of 1000 mg/m³.

Carcinogenicity

In vivo: mineral oil was negative in bacterial Ames reverse mutation assay. Highly refined mineral oils were not found to be genotoxic in mouse lymphoma tests, bone marrow cytogenetic tests and micronucleus tests (no other details specified).

Aspiration hazard

In long-term studies with highly refined mineral oils in rats and dogs, tumor incidence was not increased following exposure to doses/concentrations of 100 mg/m³. No treatment-related tumors were found after oral administration, dermal application, or subcutaneous and intraperitoneal injection. This substance is not listed by NTP, IARC, ACGIH, or OSHA as a carcinogen.

Experience with humans

No data available. See "Section 2 - Other Hazards".

SECTION 12: Ecological information

| | | |
|--------------------------------|------------------------------------------------------------|---------------|
| Toxicity | | |
| Component | Type | Concentration |
| Mineral Oil (White petrolatum) | LC50 (96h) - <i>Fimbristylis promelas</i> (Fathead minnow) | > 100 mg/kg |
| | LC50 (48h) - <i>Daphnia magna</i> (Water flea) | > 100 mg/kg |

Persistence and degradability

May persist in the environment.

Bioaccumulative potential

No data available.

Mobility in soil

Not likely mobile due to low water solubility.

Results of PBT assessment

No data available.

Other adverse effects

No data available.

Additional information

SECTION 13: Regulatory information

This SDS generally complies with the requirements listed under current guidelines in the US, EU and Canada. Consult your local or regional authorities for more information.

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

Chemical safety assessment

No chemical safety assessment has been carried out.

TSCA

All components of this product are listed as active, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

SARA Section 313 - Emission Reporting

This substance 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 1980 and 40 CFR Part 372.

California Proposition 65

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

California Proposition 65

No additional information available.

Additional information

SECTION 16: Other information

| | |
|-----------------------------------------------|------------------------------------------------------------------|
| Full text of H phrases and GHS classification | Not applicable |
| Data sources | Information from published literature and internal company data. |

Abbreviations and acronyms

ACGIH - American Conference of Governmental Industrial Hygienists, ADR/RID - European Agreement Concerning the International Carriage of Dangerous Goods by Road/Rail, AHA - American Industrial Hygiene Association, CAS# - Chemical Abstracts Services Number, CLP - Classification, Labeling, and Packaging of Substances and Mixtures, DNEL - Derived No Effect Level, DOT - Department of Transportation, EINECS - European Inventory of New and Existing Chemical Substances, ELINCS - European List of Notified Chemical Substances, EU - European Union, GHS - Globally Harmonized System of Classification and Labeling of Chemicals, IARC - International Agency for Research on Cancer, IDLH - Immediately Dangerous to Life or Health, IATA - International Air Transport Association, IMDG - International Maritime Dangerous Goods, LOEL - Lowest Observed Effect Level, LOAEL - Lowest Observed Adverse Effect Level, NIOSH - The National Institute for Occupational Safety and Health, NOEL - No Observed Effect Level, NOAEL - No Observed Adverse Effect Level, NTP - National Toxicology Program, OEL - Occupational Exposure Limit, OSHA - Occupational Safety and Health Administration, PBT - Persistent, Bioaccumulative, and Toxic, PNEC - Predicted No Effect Concentration, SARA - Superfund Amendments and Reauthorization Act, STOT - Specific Target Organ Toxicity, STEL - Short Term Exposure Limit, TDG - Transportation of Dangerous Goods, TSCA - Toxic Substances Control Act, TWA - Time Weighted Average, vPvB - Very Persistent and Very Bioaccumulative, WHMS

Issue date

27 October 2021

Current revision

1.0

Indication of changes

This is the first version of this SDS.

Disclaimer

The above information is based on data available to us and is believed to be correct. Since the information may be applied under conditions beyond our control and with which we may be unfamiliar, we do not assume any responsibility for the results of its use and all persons receiving it must make their own determination of the effects, properties and protections which pertain to their particular conditions. No representation, warranty, or guarantee, express or implied (including a warranty of fitness or merchantability for a particular purpose), is made with respect to the materials, the accuracy of this information, the results to be obtained from the use thereof, or the hazards connected with the use of the material. Caution should be used in the handling and use of the material because it is a biochemical reagent. The above information is offered in good faith and with the belief that it is accurate. As of the date of issuance, we are providing all information relevant to the foreseeable handling of the material. However, in the event of an adverse incident associated with this product, this Safety Data Sheet is not, and is not intended to be, a substitute for consultation with appropriately trained personnel.