

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard

VENATOR

SACHTOLITH® L

Version	Revision Date:	SDS Number:	Date of last issue: 08/03/2023
5.4	01/29/2024	400000000889	Date of first issue: 12/29/2016

SECTION 1. IDENTIFICATION

Product name : SACHTOLITH® L

CAS-No. : 1314-98-3

Manufacturer or supplier's details

Company name of supplier : Venator Materials LLC
Address : 10001 Woodloch Forest Drive
The Woodlands,
TX 77380
United States of America (USA)

Telephone : (001) 844 831 6720

Telefax : (001) 281 465 6731

E-mail address of person responsible for the SDS : msds@venatorcorp.com

Emergency telephone : USA & Canada: +1-800-424-9300 Other Americas: +1-703-741-5970 [CCN 1014536]

Recommended use of the chemical and restrictions on use

Recommended use : Additive
Fillers
Coloring agents, pigments
Friction agent

Restrictions on use : Do not use for cosmetics, food additives, drug additives, feed additives or permanent implant applications., Due to lack of related experience or data, the supplier cannot approve this use.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

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Other hazards

Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance
Chemical nature : inorganic
Substance name : Zinc sulphide, ZnS

CAS-No. : 1314-98-3

Components

Chemical name	CAS-No.	Concentration (% w/w)
zinc sulphide	1314-98-3	> 95 - <= 100

The specific chemical identity and/or exact percentage (concentration) of composition may be withheld as a trade secret.

SECTION 4. FIRST AID MEASURES

General advice : No hazards which require special first aid measures.
Do not leave the victim unattended.

If inhaled : Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion.
If symptoms persist, call a physician.
If unconscious, place in recovery position and seek medical advice.

In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.

In case of eye contact : Flush eyes with water as a precaution.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water and drink afterwards plenty of water.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
Keep respiratory tract clear.
If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed : None known.

Notes to physician : No information available.

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SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : High volume water jet
- Hazardous combustion products : Sulfur oxides
- Further information : Standard procedure for chemical fires.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Avoid dust formation.
- Environmental precautions : No special environmental precautions required.
- Methods and materials for containment and cleaning up : Pick up and arrange disposal without creating dust.
Sweep up and shovel.
Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Avoid dust formation.
Provide appropriate exhaust ventilation at places where dust is formed.
- Advice on safe handling : For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
Electrical installations / working materials must comply with the technological safety standards.
- Materials to avoid : No materials to be especially mentioned.
- Further information on storage stability : Keep in a dry place.
No decomposition if stored and applied as directed.

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
zinc oxide	1314-13-2	TWA (Respirable particulate matter)	2 mg/m3	ACGIH
		STEL (Respirable particulate matter)	10 mg/m3	ACGIH
		TWA (Fumes)	5 mg/m3	OSHA Z-1
		TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (Dust)	5 mg/m3	NIOSH REL
		TWA (Fumes)	5 mg/m3	NIOSH REL
		ST (Fumes)	10 mg/m3	NIOSH REL
		C (Dust)	15 mg/m3	NIOSH REL

Engineering measures : Effective exhaust ventilation system

Personal protective equipment

Respiratory protection : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Filter type : P2 filter

Hand protection
Directive : Use gloves approved to relevant standards e.g. EN 374 (Europe), F739 (US).

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Eye protection	:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. Ensure that eyewash stations and safety showers are close to the workstation location.
Skin and body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Protective measures	:	Wear suitable protective equipment.
Hygiene measures	:	Handle in accordance with good industrial hygiene and safety practice. Smoking, eating and drinking should be prohibited in the application area. Wash face, hands and any exposed skin thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. Barrier creams may help to protect the exposed areas of skin, they should however not be applied once exposure has occurred. Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	powder
Color	:	white
Odor	:	none
pH	:	Measured 7
Melting point/range	:	Measured > 1472 °F / > 800 °C
Boiling point/boiling range	:	Not applicable
Flash point	:	Not applicable
Flammability (solid, gas)	:	The product is not flammable.
Burning rate	:	Not combustible.
Upper explosion limit / Upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable

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Vapor pressure	:	Not applicable
Relative vapor density	:	Not applicable
Density	:	Measured 4 g/cm ³ (Measured 68 °F / 20 °C)
Bulk density	:	not determined
Solubility(ies)	:	
Water solubility	:	Measured < 0.0005 g/l (68 °F / 20 °C)
Solubility in other solvents	:	not determined
Partition coefficient: n-octanol/water	:	Not applicable
Autoignition temperature	:	The product itself does not burn.
Viscosity	:	
Viscosity, dynamic	:	Not applicable
Viscosity, kinematic	:	Not applicable
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Molecular weight	:	Calculation method 97.46 g/mol

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Stable under recommended storage conditions. No decomposition if stored and applied as directed.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	Stable under recommended storage conditions. No hazards to be specially mentioned.
Conditions to avoid	:	No data available
Incompatible materials	:	Acids
Hazardous decomposition products	:	Hydrogen sulphide Sulfur oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity	:	LD50 Oral (Rat): Measured > 15,000 mg/kg Method: OECD Test Guideline 401 Assessment: The substance or mixture has no acute oral
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toxicity

Remarks: Information refers to the main ingredient.

Acute inhalation toxicity : LC50 (Rat, male and female): Measured 5.7 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: Information given is based on data obtained from similar substances.

Acute dermal toxicity : Assessment: The substance or mixture has no acute dermal toxicity

Acute toxicity (other routes of administration) : Remarks: No data available

Components:

zinc sulphide:

Acute oral toxicity : LD50 Oral (Rat): Measured > 15,000 mg/kg
Method: OECD Test Guideline 401
Assessment: The substance or mixture has no acute oral toxicity
Remarks: Information refers to the main ingredient.

Acute inhalation toxicity : LC50 (Rat, male and female): Measured 5.7 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: Information given is based on data obtained from similar substances.

Acute dermal toxicity : Assessment: The substance or mixture has no acute dermal toxicity

Acute toxicity (other routes of administration) : Remarks: No data available

Skin corrosion/irritation

Product:

Remarks : According to the classification criteria of the European Union, the product is not considered as being a skin irritant.

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Components:

zinc sulphide:

Remarks : According to the classification criteria of the European Union, the product is not considered as being a skin irritant.

Serious eye damage/eye irritation

Product:

Remarks : According to the classification criteria of the European Union, the product is not considered as being an eye irritant.

Components:

zinc sulphide:

Remarks : According to the classification criteria of the European Union, the product is not considered as being an eye irritant.

Respiratory or skin sensitization

Product:

Assessment : Does not cause respiratory sensitization.

Components:

zinc sulphide:

Assessment : Does not cause respiratory sensitization.

Germ cell mutagenicity

Product:

Germ cell mutagenicity - Assessment : Animal testing did not show any mutagenic effects.

Components:

zinc sulphide:

Germ cell mutagenicity - Assessment : Animal testing did not show any mutagenic effects.

Carcinogenicity

Product:

Carcinogenicity - Assessment : Did not show carcinogenic effects in animal experiments.

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Components:

zinc sulphide:

Carcinogenicity - Assessment : Did not show carcinogenic effects in animal experiments.

IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Product:

Reproductive toxicity - Assessment : No toxicity to reproduction

Components:

zinc sulphide:

Reproductive toxicity - Assessment : No toxicity to reproduction

STOT-single exposure

Product:

Remarks : No data available

Components:

zinc sulphide:

Remarks : No data available

STOT-repeated exposure

Product:

Routes of exposure : Ingestion
Target Organs : Brain, Thyroid, thymus, Eyes, Pituitary gland, Kidney, Liver, spleen, Adrenal gland, Testes, female reproductive organs, muscle
Assessment : No significant health effects observed at a concentration of 300mg/kg bw/day.
Remarks : Information given is based on data obtained from similar substances.

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Components:

zinc sulphide:

Routes of exposure	:	Ingestion
Target Organs	:	Brain, Thyroid, thymus, Eyes, Pituitary gland, Kidney, Liver, spleen, Adrenal gland, Testes, female reproductive organs, muscle
Assessment	:	No significant health effects observed at a concentration of 300mg/kg bw/day.
Remarks	:	Information given is based on data obtained from similar substances.

Aspiration toxicity

Product:

No aspiration toxicity classification

Components:

zinc sulphide:

No aspiration toxicity classification

Further information

Product:

Remarks	:	No data available
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Components:

zinc sulphide:

Remarks	:	No data available
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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish	:	EC50 (Brachydanio rerio (zebrafish)): Measured 100 mg/l Exposure time: 96 h Test Type: static test Analytical monitoring: yes Test substance: yes Method: OECD Test Guideline 203 Remarks: Aquatic toxicity is unlikely due to low solubility.
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): Measured 100 mg/l Exposure time: 48 h

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Test Type: static test
Analytical monitoring: yes
Test substance: yes
Method: OECD Test Guideline 202
Remarks: Aquatic toxicity is unlikely due to low solubility.

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): Measured 100 mg/l
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Test substance: yes
Method: OECD Test Guideline 202
Remarks: Aquatic toxicity is unlikely due to low solubility.

Toxicity to fish (Chronic toxicity) : Remarks: Aquatic toxicity is unlikely due to low solubility.
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: Aquatic toxicity is unlikely due to low solubility.
Toxicity to microorganisms : Remarks: Aquatic toxicity is unlikely due to low solubility.

Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.
Chronic aquatic toxicity : This product has no known ecotoxicological effects.
Toxicity Data on Soil : Not expected to adsorb on soil.

Components:

zinc sulphide:

Toxicity to fish : EC50 (Brachydanio rerio (zebrafish)): Measured 100 mg/l
Exposure time: 96 h
Test Type: static test
Analytical monitoring: yes
Test substance: yes
Method: OECD Test Guideline 203
Remarks: Aquatic toxicity is unlikely due to low solubility.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): Measured 100 mg/l
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Test substance: yes
Method: OECD Test Guideline 202
Remarks: Aquatic toxicity is unlikely due to low solubility.

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Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): Measured 100 mg/l
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Test substance: yes
Method: OECD Test Guideline 202
Remarks: Aquatic toxicity is unlikely due to low solubility.

Toxicity to fish (Chronic toxicity) : Remarks: Aquatic toxicity is unlikely due to low solubility.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: Aquatic toxicity is unlikely due to low solubility.

Toxicity to microorganisms : Remarks: Aquatic toxicity is unlikely due to low solubility.

Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

Toxicity Data on Soil : Not expected to adsorb on soil.

Persistence and degradability

Impact on Sewage Treatment : Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

Components:

zinc sulphide:

Impact on Sewage Treatment : Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82
Protection of Stratospheric Ozone - CAA Section 602 Class I

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Substances

Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : There is no data available for this product.

Components:

zinc sulphide:

Additional ecological information : There is no data available for this product.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging : Empty remaining contents.
Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

49 CFR

Not regulated as a dangerous good

Special precautions for user

Not applicable

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SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

zinc oxide	1314-13-2	0.2 %
zinc sulphide	1314-98-3	98.5 %

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

California Prop. 65

WARNING: This product can expose you to chemicals including Arsenic (As), Cadmium (Cd), Chromium VI (Cr6+), Cobalt (Co), Lead (Pb), Mercury (Hg) and Nickel (Ni), present as trace impurities and not intentionally added, which is/are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

The ingredients of this product are reported in the following inventories:

CH INV	: On the inventory, or in compliance with the inventory
DSL	: All components of this product are on the Canadian DSL
AIIC	: On the inventory, or in compliance with the inventory
NZIoC	: On the inventory, or in compliance with the inventory
ENCS	: On the inventory, or in compliance with the inventory
KECI	: On the inventory, or in compliance with the inventory
PICCS	: On the inventory, or in compliance with the inventory
IECSC	: On the inventory, or in compliance with the inventory
TCSI	: On the inventory, or in compliance with the inventory
TSCA	: All substances listed as active on the TSCA inventory

Inventories

AIIC (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TECI (Thailand), TSCA (USA)

TSCA - 5(a) Significant New Use Rule List of Chemicals

No substances are subject to a Significant New Use Rule.

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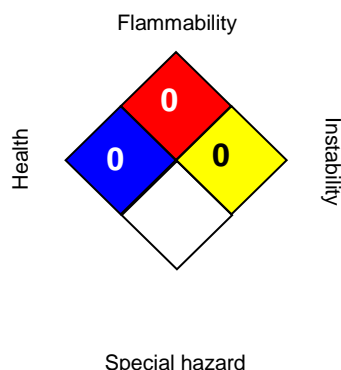
US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



HMIS® IV:

HEALTH		1
FLAMMABILITY		0
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

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.

Sources of key data used to compile the Material Safety Data Sheet : Information taken from reference works and the literature.,
Information derived from practical experience.

Revision Date : 01/29/2024

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL : USA. NIOSH Recommended Exposure Limits
OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1
Limits for Air Contaminants
ACGIH / TWA : 8-hour, time-weighted average
ACGIH / STEL : Short-term exposure limit
NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour
workday during a 40-hour workweek
NIOSH REL / ST : STEL - 15-minute TWA exposure that should not be exceeded
at any time during a workday

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NIOSH REL / C	: Ceiling value not be exceeded at any time.
OSHA Z-1 / TWA	: 8-hour time weighted average

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