

SACHTOLITH® HD-S

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 10/06/2021

 5.1
 07/27/2022
 400000000888
 Date of first issue: 12/29/2016

SECTION 1. IDENTIFICATION

Product name : SACHTOLITH® HD-S

Manufacturer or supplier's details

Company name of supplier : Venator Americas 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 number : USA & Canada: +1-800-424-9300 Other Americas: +1-703-

741-5970 [CCN 820025]

Recommended use of the chemical and restrictions on use

Recommended use : Additive

Fillers

Colouring agents, pigments

Friction agent

Restrictions on use : Do not use for cosmetics, food additives, drug additives, feed

additives or permanent implant applications.

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.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance Chemical nature : inorganic

Components

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



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zinc oxide 1314-13-2 0.25 - 1

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

SECTION 4. FIRST AID MEASURES

If inhaled : Move to fresh air in case of accidental inhalation of dust or

fumes from overheating or combustion.

If unconscious, place in recovery position and seek medical

: None known.

If symptoms persist, call a physician.

Remove contact lenses. In case of eye contact

Protect unharmed eye.

If eye irritation persists, consult a specialist.

If swallowed Keep respiratory tract clear.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Most important symptoms and effects, both acute and

delayed

: No information available. Notes to physician

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Unsuitable extinguishing

media

High volume water jet

Specific hazards during

firefighting

No information available.

Hazardous combustion

products

No hazardous combustion products are known

Specific extinguishing

Further information

methods

: No data is available on the product itself.

: Standard procedure for chemical fires.

Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Special protective equipment

for firefighters

Wear self-contained breathing apparatus for firefighting if

necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions. protective equipment and emergency procedures

: Avoid dust formation.



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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

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 : Electrical installations / working materials must comply with

the technological safety standards.

Materials to avoid : No materials to be especially mentioned.

Further information on

Keep in a dry place.

storage stability No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components 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

Hygiene measures : General industrial hygiene practice.



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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : powder Colour : white Odour : none

Odour Threshold : No data is available on the product itself.

pH : Measured 7

Melting point/range : Measured > 1472 °F / > 800 °C

Boiling point/boiling range : Not applicable

Flash point : Not applicable

Evaporation rate : No data is available on the product itself.

Flammability (solid, gas) : Not expected to form explosive dust-air mixtures.

Not combustible.

Not applicable

Flammability (liquids) : No data is available on the product itself.

Burning rate Upper explosion limit / Upper

flammability limit

Lower explosion limit / Lower

flammability limit

: Not applicable

Vapour pressure : Not applicable

Relative vapour density : Not applicable

Relative density : No data is available on the product itself.

Density : 4 g/cm3 (68 °F / 20 °C)

Bulk density : not determined

Solubility(ies)

Water solubility : Measured < 0.0005 g/I (68 °F / 20 °C)

Solubility in other solvents : not determined

Partition coefficient: n-

octanol/water

: Not applicable

Auto-ignition temperature : The product itself does not burn.

Thermal decomposition : No data is available on the product itself.

Viscosity

Viscosity, dynamic : Not applicable

Viscosity, kinematic : Not applicable

Explosive properties : No data is available on the product itself.



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Oxidizing properties : The substance or mixture is not classified as oxidizing.

Molecular weight : Calculation method 97.46 g/mol

Particle size : No data is available on the product itself.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed. Chemical stability : No decomposition if stored and applied as directed. Possibility of hazardous : Stable under recommended storage conditions.

reactions

No hazards to be specially mentioned.

Conditions to avoid : No data available Acids

Incompatible materials

Hazardous decomposition

Hydrogen sulphide Sulphur oxides products

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of : No data is available on the product itself.

exposure

Acute toxicity

Acute oral toxicity - Product : LD50 Oral (Rat): Measured > 15,000 mg/kg

Method: OECD Test Guideline 401

Assessment: The substance or mixture has no acute oral

Remarks: Information refers to the main component.

Acute inhalation toxicity -

Product

: 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 -

Product

: Assessment: The substance or mixture has no acute dermal

toxicity

Components:

zinc sulphide:

Acute toxicity (other routes of

administration) Remarks: No data available



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Skin corrosion/irritation

Components:

zinc sulphide:

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

zinc oxide: Species: Rabbit

Assessment: No skin irritation Method: OECD Test Guideline 404

Result: No skin irritation

Serious eye damage/eye irritation

Components:

zinc sulphide:

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

zinc oxide:
Species: Rabbit
Result: No eye irritation
Assessment: No eye irritation
Method: OECD Test Guideline 405

Respiratory or skin sensitisation

Product:

Assessment: Does not cause respiratory sensitisation.

Assessment: No data available

Germ cell mutagenicity

Components:

zinc oxide:

Genotoxicity in vitro : Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Components:

zinc oxide:

Genotoxicity in vivo : Application Route: Intraperitoneal injection

Method: OECD Test Guideline 474

Result: negative

Product:

Germ cell mutagenicity-

Assessment

: Animal testing did not show any mutagenic effects.

Carcinogenicity

No data available



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Product:

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

IARC No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

ACGIH No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by ACGIH.

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 component 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

Effects on fertility : No data available

Components:

zinc oxide:

Effects on foetal : Species: Mouse development : Application Route: Oral

General Toxicity Maternal: No observed adverse effect level:

30 mg/kg body weight

Method: OECD Test Guideline 414 Result: No teratogenic effects

Product:

Reproductive toxicity -

Assessment

: No toxicity to reproduction

STOT - single exposure

Product:

Remarks: No data available

STOT - repeated exposure

Product:

Exposure routes: 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.

Repeated dose toxicity

Components:

zinc oxide:

Species: Mouse, male and female

NOEL: 3000 ppm



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Application Route: Ingestion Exposure time: 13 h Number of exposures: 7 d Method: Subchronic toxicity

Repeated dose toxicity -

Assessment

: No data available

Aspiration toxicity

Product:

No aspiration toxicity classification

Experience with human exposure

General Information: No data available

Inhalation: No data available

Skin contact: No data available

Eye contact: No data available

Ingestion: No data available

Toxicology, Metabolism, Distribution

No data available

Neurological effects

No data available

Further information

Product:

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity to fish - Product : 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.



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Toxicity to daphnia and other

aquatic invertebrates -**Product**

Exposure time: 48 h Test Type: static test

Analytical monitoring: yes Test substance: ves

Method: OECD Test Guideline 202

Remarks: Aquatic toxicity is unlikely due to low solubility.

: EC50 (Daphnia magna (Water flea)): Measured 100 mg/l

Toxicity to algae/aquatic

plants - Product

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.

Components:

zinc oxide:

M-Factor (Acute aquatic

toxicity)

Toxicity to fish (Chronic

toxicity) - Product

Toxicity to daphnia and other aquatic invertebrates

(Chronic toxicity) - Product

M-Factor (Chronic aquatic

toxicity)

: 1

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

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

: No data available

Toxicity to microorganisms -

Product

Toxicity to soil dwelling

organisms

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

: No data available

Plant toxicity : No data available

: No data available Sediment toxicity

Toxicity to terrestrial

organisms

: No data available

Ecotoxicology Assessment

Acute aquatic toxicity -

Product

Chronic aquatic toxicity -

Product

Toxicity Data on Soil -

Product

Other organisms relevant to

the environment

: This product has no known ecotoxicological effects.

: This product has no known ecotoxicological effects.

Not expected to adsorb on soil.

: No data available

Persistence and degradability

Biodegradability : No data available

Biochemical Oxygen : No data available



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Demand (BOD)

Chemical Oxygen Demand

(COD)

: No data available

BOD/COD : No data available

ThOD : No data available

BOD/ThOD : No data available

Dissolved organic carbon

(DOC)

: No data available

Physico-chemical

removability

: No data available

Stability in water : No data available

Photodegradation : No data available

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

plants.

Bioaccumulative potential

Bioaccumulation : No data available

Partition coefficient: noctanol/water - Product : Remarks: Not applicable

Mobility in soil

Mobility : No data available

Distribution among

environmental compartments

: No data available

Stability in soil : No data available

Other adverse effects

Environmental fate and

pathways

: No data available

Results of PBT and vPvB

assessment

: No data available

Endocrine disrupting

potential

: No data available

Adsorbed organic bound

halogens (AOX)

: No data available

Hazardous to the ozone layer



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Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82

Protection of Stratospheric Ozone - CAA Section 602 Class I

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 - Product Global warming potential

: No data available

: No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Contaminated packaging : 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.

National Regulations

49 CFR

Not regulated as a dangerous good

Special precautions for user

Not applicable

SECTION 15. REGULATORY INFORMATION

SARA 311/312 Hazards : No SARA Hazards



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SARA 313 : The following components are subject to reporting levels

established by SARA Title III, Section 313:

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 components of this product are reported in the following inventories:

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

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

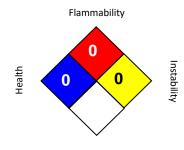


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NFPA 704:



Special hazard

HMIS® IV:



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 Safety Data

Sheet

: Information taken from reference works and the literature.,

Information derived from practical experience.

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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

: USA. Occupational Exposure Limits (USHA) - Table 2-1

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

NIOSH REL / C : Ceiling value not be exceeded at any time.

OSHA Z-1 / TWA : 8-hour time weighted average

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