

## LITHOPONE 30 % DS

Version	Revision Date:	SDS Number:	Date of last issue: 03/14/2018
3.0	07/18/2019	400000000829	Date of first issue: 12/29/2016

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**SECTION 1. IDENTIFICATION**

Product name : LITHOPONE 30 % DS

**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  
Colouring agents, pigments  
Fillers

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.

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**SECTION 2. HAZARDS IDENTIFICATION****GHS classification in accordance with 29 CFR 1910.1200**

Not a hazardous substance or mixture.

**GHS label elements**

Not a hazardous substance or mixture.

**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.

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**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

Chemical nature : inorganic

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**Components**

Chemical name	CAS-No.	Concentration (% w/w)
barium sulfate	7727-43-7	50 - 70

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 : Consult a physician.
- If inhaled : If breathed in, move person into fresh air.  
Get medical attention if symptoms occur.
- In case of skin contact : Wash off with soap and water.  
Call a physician if irritation develops or persists.
- In case of eye contact : Rinse with water.  
If eye irritation persists, consult a specialist.
- If swallowed : Rinse mouth with water.  
If material has been swallowed and the exposed person is conscious, give small quantities of water to drink.  
DO NOT induce vomiting unless directed to do so by a physician or poison control center.  
If symptoms persist, call a physician.
- Most important symptoms and effects, both acute and delayed : Eye contact  
Dust contact with the eyes can lead to mechanical irritation.  
Inhalation may provoke the following symptoms:  
Symptoms of Overexposure  
Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough.  
Skin contact may provoke the following symptoms:  
The product is not irritant but as with all fine powders can absorb moisture and natural oils from the surface of the skin during prolonged exposure.  
Individuals with sensitive skin may experience skin drying on prolonged or repeated exposure.
- Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.
- Notes to physician : No specific measures identified.

**SECTION 5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local

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- circumstances and the surrounding environment.  
 Water spray  
 Foam  
 Dry powder  
 Carbon dioxide (CO2)
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : Cool closed containers exposed to fire with water spray.
- Hazardous combustion products : Sulphur oxides  
 Metal oxides
- Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Further information : Standard procedure for chemical fires.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
 Ensure adequate ventilation.  
 Avoid dust formation.  
 Remove all sources of ignition.  
 Never return spills in original containers for re-use.  
 Treat recovered material as described in the section "Disposal considerations".  
 For disposal considerations see section 13.
- Environmental precautions : No special environmental precautions required.  
 Local authorities should be advised if significant spillages cannot be contained.
- Methods and materials for containment and cleaning up : Keep in suitable, closed containers for disposal.  
 Sweep up or vacuum up spillage and collect in suitable container for disposal.  
 Avoid creating dusty conditions and prevent wind dispersal.  
 Clean contaminated floors and objects thoroughly while observing environmental regulations.

**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 : Minimize dust generation and accumulation.  
 Avoid formation of respirable particles.  
 Avoid inhalation, ingestion and contact with skin and eyes.  
 Avoid exposure - obtain special instructions before use.

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For personal protection see section 8.  
 Smoking, eating and drinking should be prohibited in the application area.  
 Provide sufficient air exchange and/or exhaust in work rooms.  
 Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.  
 Observe label precautions.  
 Electrical installations / working materials must comply with the technological safety standards.

Further information on storage stability : Keep in a dry place.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
barium sulfate	7727-43-7	TWA (total dust)	15 mg/m <sup>3</sup>	OSHA Z-1
		TWA (respirable fraction)	5 mg/m <sup>3</sup>	OSHA Z-1
		TWA (Inhalable fraction)	5 mg/m <sup>3</sup>	ACGIH

**Engineering measures** : Maintain air concentrations below occupational exposure standards.

**Personal protective equipment**

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines

Hand protection  
 Remarks : For prolonged or repeated contact use protective gloves.

Eye protection : Safety glasses  
 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 : The type of protective equipment must be selected according

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to the concentration and amount of the dangerous substance at the specific workplace.

Ensure that eye flushing systems and safety showers are located close to the working place.

Hygiene measures : Wash hands before breaks and immediately after handling the product.  
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.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	: powder
Colour	: white
Odour	: none
Odour Threshold	: Not relevant
pH	: ca. 7
Melting point/range	: > 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.
Flammability (liquids)	: No data is available on the product itself.
Burning rate	: Not combustible.
Upper explosion limit / Upper flammability limit	: No data is available on the product itself.
Lower explosion limit / Lower flammability limit	: No data is available on the product itself.
Vapour pressure	: Not applicable
Relative vapour density	: Not applicable
Relative density	: No data is available on the product itself.
Density	: ca. 4.3 g/cm <sup>3</sup>
Solubility(ies)	

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Water solubility	:	< 0.01 g/l
Solubility in other solvents	:	< 0.01 g/l
Partition coefficient: n-octanol/water	:	No data is available on the product itself.
Auto-ignition temperature	:	The product itself does not burn.
Thermal decomposition	:	No data is available on the product itself.
Self-Accelerating decomposition temperature (SADT)	:	No data is available on the product itself.
Viscosity	:	No data is available on the product itself.
Explosive properties	:	No data is available on the product itself.
Oxidizing properties	:	No data is available on the product itself.
Particle size	:	No data is available on the product itself.

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	None known. Stable under recommended storage conditions.
Conditions to avoid	:	Do not expose to temperatures above: > 800 °C  pH < 5
Incompatible materials	:	Strong reducing agents Acids
Hazardous decomposition products	:	Sulphur oxides Metal oxides Hydrogen sulphide

**SECTION 11. TOXICOLOGICAL INFORMATION**

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

**Acute toxicity****Components:**

barium sulfate:

Acute oral toxicity	:	LD50 (Rat, male): > 5,000 mg/kg Method: OECD Test Guideline 401
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Acute inhalation toxicity	:	No data available
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Acute dermal toxicity : No data available

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

**Skin corrosion/irritation****Components:**

barium sulfate:

Species: human skin

Result: No skin irritation

**Serious eye damage/eye irritation****Components:**

barium sulfate:

Species: Rabbit

Result: No eye irritation

Method: OECD Test Guideline 405

**Respiratory or skin sensitisation****Product:**

Remarks: Not classified due to data which are conclusive although insufficient for classification.

Assessment: No skin irritation, No eye irritation  
Does not cause respiratory sensitisation.

**Germ cell mutagenicity****Components:**

barium sulfate:

Genotoxicity in vitro : Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative

Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative

Genotoxicity in vivo : No data available

**Product:**

Germ cell mutagenicity-Assessment : Weight of evidence does not support classification as a germ cell mutagen.

**Carcinogenicity****Components:**

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barium sulfate:

Species: Rat, male and female

Application Route: Oral

Exposure time: 104 weeks

Dose: 60 - 75 mg/kg

Method: OPPTS 870.4200

Result: negative

Species: Mouse, male and female

Application Route: Oral

Dose: 160 - 200 mg/kg

Method: OPPTS 870.4200

Result: negative

**Product:**

Carcinogenicity - : Not classifiable as a human carcinogen.

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

Effects on foetal development : No data available

**Product:**

Reproductive toxicity - : No toxicity to reproduction  
Assessment No effects on or via lactation

**STOT - single exposure****Product:**

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

**STOT - repeated exposure****Product:**

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.



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**Repeated dose toxicity****Components:**

barium sulfate:

Species: Rat

NOAEL:  $\geq 104$  mg/kg

Application Route: Ingestion

Species: Rat

Application Route: Inhalation

Exposure time: 5 h

Number of exposures: 5 d

Remarks: No significant adverse effects were reported

Repeated dose toxicity -      : No skin irritation, No eye irritation  
Assessment                      No adverse effect has been observed in chronic toxicity tests.

**Aspiration toxicity**

No data available

**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**

Ingestion:                    No data available

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## SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity****Components:**

barium sulfate:

Toxicity to fish

: LC50:  
Exposure time: 96 h  
Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 203  
Remarks: No toxicity at the limit of solubility

**Components:**

barium sulfate:

Toxicity to daphnia and other  
aquatic invertebrates

: LC50 (Daphnia magna (Water flea)):  
Exposure time: 48 h  
Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 202  
Remarks: No toxicity at the limit of solubility

**Components:**

barium sulfate:

Toxicity to algae/aquatic  
plants

: EC50:  
Exposure time: 72 h  
Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 201  
Remarks: No toxicity at the limit of solubility

M-Factor (Acute aquatic  
toxicity)

: No data available

Toxicity to fish (Chronic  
toxicity)

: No data available

**Components:**

barium sulfate:

Toxicity to daphnia and other  
aquatic invertebrates  
(Chronic toxicity)

: NOEC (Daphnia magna (Water flea)):  
Exposure time: 21 d  
Test Type: semi-static test  
Test substance: Fresh water  
Method: OECD Test Guideline 211  
Remarks: No toxicity at the limit of solubility

M-Factor (Chronic aquatic  
toxicity)

: No data available

Toxicity to microorganisms

: No data available

Toxicity to soil dwelling  
organisms

: No data available

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Plant toxicity : No data available

Sediment toxicity : No data available

Toxicity to terrestrial organisms : No data available

Ecotoxicology Assessment  
Acute aquatic toxicity : No data available

Chronic aquatic toxicity : No data available

Toxicity Data on Soil : No data available

Other organisms relevant to the environment : No data available

**Persistence and degradability**

Biodegradability - Product : Remarks: The methods for determining the biological degradability are not applicable to inorganic substances.

Biochemical Oxygen Demand (BOD) : No data available

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 : No data available

**Bioaccumulative potential**

Bioaccumulation - Product : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : No data available

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**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**

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 : No data available

Global warming potential (GWP) : No data available

**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues : Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Dispose of wastes in an approved waste disposal facility.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

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**SECTION 14. TRANSPORT INFORMATION****International Regulations****IATA**

Not regulated as dangerous goods

**IMDG**

Not regulated as dangerous goods

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

Not applicable for product as supplied.

**National Regulations****DOT Classification**

Not regulated as dangerous goods

**SECTION 15. REGULATORY INFORMATION****EPCRA - Emergency Planning and Community Right-to-Know Act****CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA 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 sulphide	1314-98-3	30 %
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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**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**The components 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
AICS	: 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

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TCSI : On the inventory, or in compliance with the inventory  
 TSCA : All substances listed as active on the TSCA inventory

**Inventories**

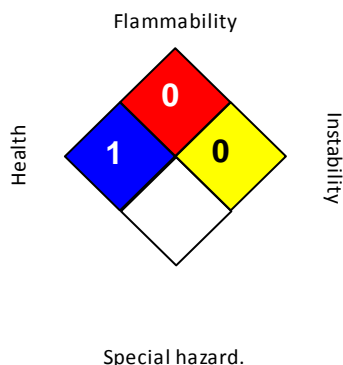
AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

**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****NFPA 704:****HMIS® IV:**

<b>HEALTH</b>		<b>1</b>
<b>FLAMMABILITY</b>		<b>0</b>
<b>PHYSICAL HAZARD</b>		<b>0</b>

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)  
 OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1  
 Limits for Air Contaminants  
 ACGIH / TWA : 8-hour, time-weighted average  
 OSHA Z-1 / TWA : 8-hour time weighted average

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