

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



ZENITE® SEA 10 ND-3 VD3006 BLACK (SMP)

Version 1.3 Revision Date: 2025/07/28 SDS Number: 000000036759 Date of last issue: 2022/12/14
Date of first issue: 2019/05/07

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : ZENITE® SEA 10 ND-3 VD3006 BLACK (SMP)
Product code : 00000000021016925

Manufacturer or supplier's details

Company : Celanese (Shanghai) International Trading Co., Ltd
Address : 4560 Jinke Road, Zhangjiang, Pudong
Shanghai, China 201210
Telephone : 86-21-38619288
Emergency telephone number : CHEMTREC International phone number: +1-703-527 3887,
+86 532 8388-9090 (China, 24h)
E-mail address : HazCom@celanese.com

Recommended use of the chemical and restrictions on use

Recommended use : Plastic processing industry

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance	: pellets
Odour	: slight

Not a hazardous substance or mixture.

GHS Classification

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Physical and chemical hazards

Not classified based on available information.

Health hazards

Not classified based on available information.

Environmental hazards

Not classified based on available information.

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

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Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Wollastonite (Ca(SiO ₃))	13983-17-0	>= 20 -< 30
Carbon black	1333-86-4	>= 1 -< 10
Quartz	14808-60-7	>= 0.1 -< 1

4. FIRST AID MEASURES

General advice : Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.

In case of skin contact : Cool skin rapidly with cold water after contact with molten material.
Do not peel solidified product off the skin.
Burns must be treated by a physician.

In case of eye contact : Remove contact lenses.
Protect unharmed eye.
If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.
Do NOT induce vomiting.
If symptoms persist, call a physician.

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

Notes to physician : Treat symptomatically.

5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water
Foam
Dry chemical
Carbon dioxide (CO₂)

Specific hazards during firefighting : Do not use a solid water stream as it may scatter and spread fire.

Hazardous combustion products : Carbon oxides
Nitrogen oxides (NO_x)

Specific extinguishing : Standard procedure for chemical fires.

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methods : 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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Avoid dust formation.
Avoid breathing dust.
Ensure adequate ventilation.
Sweep up to prevent slipping hazard.

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.

7. HANDLING AND STORAGE

Handling

Advice on protection against fire and explosion : During processing, dust may form explosive mixture in air.

Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.

Advice on safe handling : For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.

Minimize dust generation and accumulation.

Avoidance of contact : Not applicable

Storage

Conditions for safe storage : Keep in a dry, cool place.
Maintain dryness of resin

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 : No decomposition if stored and applied as directed.

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Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis	
Wollastonite (Ca(SiO ₃))	13983-17-0	PC-TWA (Total dust)	5 mg/m ³	CN OEL	
		TWA (Inhalable particulate matter)	1 mg/m ³	ACGIH	
Carbon black	1333-86-4	PC-TWA (Total dust)	4 mg/m ³	CN OEL	
		Further information: G2B - Possibly carcinogenic to humans			
		TWA (Inhalable particulate matter)	3 mg/m ³	ACGIH	
Quartz	14808-60-7	PC-TWA (Total dust)	0.5 mg/m ³	CN OEL	
		Further information: G1 - Carcinogenic to humans			
		PC-TWA (Respirable dust)	0.2 mg/m ³	CN OEL	
		Further information: G1 - Carcinogenic to humans			
		PC-TWA (Total dust)	0.7 mg/m ³	CN OEL	
		Further information: G1 - Carcinogenic to humans			
		PC-TWA (Respirable dust)	0.3 mg/m ³	CN OEL	
		Further information: G1 - Carcinogenic to humans			
		PC-TWA (Total dust)	1 mg/m ³	CN OEL	
		Further information: G1 - Carcinogenic to humans			
		PC-TWA (Respirable dust)	0.7 mg/m ³	CN OEL	
		Further information: G1 - Carcinogenic to humans			
		TWA (Respirable particulate matter)	0.025 mg/m ³ (Silica)	ACGIH	

Engineering measures : Local exhaust
Provide appropriate exhaust ventilation at places where dust is formed.

Personal protective equipment

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Respiratory protection : No personal respiratory protective equipment normally required.

Eye/face protection : Safety glasses with side-shields

Skin and body protection : Protective suit

Hygiene measures : General industrial hygiene practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : pellets

Odour : slight

Odour Threshold : No data available

pH : substance/mixture is non-soluble (in water)

Melting point/ range : For further information, refer to the product technical data sheet.

Boiling point/boiling range : Not applicable

Flash point : Not applicable

Evaporation rate : Not applicable

Flammability (solid, gas) : May form combustible dust concentrations in air during processing, handling or other means.

Upper explosion limit / Upper flammability limit : Not applicable

Lower explosion limit / Lower flammability limit : Not applicable

Vapour pressure : Not applicable

Relative vapour density : Not applicable

Density : For further information, refer to the product technical data sheet.

Solubility(ies)
Water solubility : insoluble

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

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Auto-ignition temperature : For further information, refer to the product technical data sheet.

Decomposition temperature : No data available

Viscosity

 Viscosity, dynamic : Not applicable

 Viscosity, kinematic : Not applicable

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 reactions : Stable under recommended storage conditions.
Dust can form an explosive mixture in air.

Conditions to avoid : No data available

Incompatible materials : Not applicable

Hazardous decomposition products : Carbon monoxide

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified due to lack of data.

Components:

Quartz:

Acute oral toxicity : LD50 (Rat): > 11,000 mg/kg
Assessment: The substance or mixture has no acute oral toxicity

Skin corrosion/irritation

Not classified due to lack of data.

Components:

Quartz:

Species : Rabbit
Assessment : No skin irritation
Result : No skin irritation

Serious eye damage/eye irritation

Not classified due to lack of data.

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Components:

Quartz:

Species : Rabbit
Result : Slight or no eye irritation
Assessment : No eye irritation
Remarks : Minimal effects that do not meet the threshold for classification.

Respiratory or skin sensitisation

Skin sensitisation

Not classified due to lack of data.

Respiratory sensitisation

Not classified due to lack of data.

Components:

Quartz:

Species : Guinea pig
Assessment : Does not cause skin sensitisation.
Result : Does not cause skin sensitisation.

Germ cell mutagenicity

Not classified due to lack of data.

Components:

Wollastonite (Ca(SiO₃)):

Germ cell mutagenicity - Assessment : Did not cause genetic damage in cultured bacterial cells.

Quartz:

Germ cell mutagenicity - Assessment : Genetic damage in cultured mammalian cells was observed in some laboratory tests but not in others., Genetic damage in animals was observed in some laboratory tests but not in others.

Carcinogenicity

Not classified due to lack of data.

Components:

Wollastonite (Ca(SiO₃)):

Carcinogenicity - Assessment : Not classifiable as a human carcinogen., Overall weight of evidence indicates that the substance is not carcinogenic.

Quartz:

Carcinogenicity - Assessment : Human carcinogen., An increased risk of cancer in humans has been shown in workplace-based studies.

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Reproductive toxicity

Not classified due to lack of data.

STOT - single exposure

Not classified due to lack of data.

STOT - repeated exposure

Not classified due to lack of data.

Components:

Wollastonite (Ca(SiO₃)):

Target Organs : Lungs
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

Quartz:

Target Organs : Lungs
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 1.

Repeated dose toxicity

Components:

Wollastonite (Ca(SiO₃)):

Species : Rat
Application Route : Inhalation
Test atmosphere : dust/mist
Exposure time : 24 Months
Remarks : Respiratory effects

Quartz:

Species : multiple species
Application Route : Inhalation
Test atmosphere : dust/mist

Aspiration toxicity

Not classified due to lack of data.

Components:

Wollastonite (Ca(SiO₃)):

No aspiration toxicity classification

Quartz:

No aspiration toxicity classification

Further information

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Remarks : No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Quartz:

Ecotoxicology Assessment

Acute aquatic toxicity : Toxic effects cannot be excluded

Persistence and degradability

Components:

Quartz:

Biodegradability : Result: Not biodegradable
Remarks: Not applicable

Bioaccumulative potential

Components:

Quartz:

Bioaccumulation : Remarks: Not applicable

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological information : No data available

13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Where possible recycling is preferred to disposal or incineration.
Dispose of in accordance with local regulations.

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

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14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number	: Not applicable
Proper shipping name	: Not applicable
Class	: Not applicable
Subsidiary risk	: Not applicable
Packing group	: Not applicable
Labels	: Not applicable
Environmentally hazardous	: no

IATA-DGR

UN/ID No.	: Not applicable
Proper shipping name	: Not applicable
Class	: Not applicable
Subsidiary risk	: Not applicable
Packing group	: Not applicable
Labels	: Not applicable
Packing instruction (cargo aircraft)	: Not applicable
Packing instruction (passenger aircraft)	: Not applicable

IMDG-Code

UN number	: Not applicable
Proper shipping name	: Not applicable
Class	: Not applicable
Subsidiary risk	: Not applicable
Packing group	: Not applicable
Labels	: Not applicable
EmS Code	: Not applicable
Marine pollutant	: no

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

Not applicable for product as supplied.

National Regulations

GB 6944/12268

UN number	: Not applicable
Proper shipping name	: Not applicable
Class	: Not applicable
Subsidiary risk	: Not applicable
Packing group	: Not applicable
Labels	: Not applicable
Marine pollutant	: no

JT/T 617

UN number	: Not applicable
Proper shipping name	: Not applicable
Class	: Not applicable
Subsidiary risk	: Not applicable
Packing group	: Not applicable

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Labels : Not applicable
Environmentally hazardous no

Special precautions for user

Not applicable

15. REGULATORY INFORMATION

National regulatory information

Law on the Prevention and Control of Occupational Diseases

Regulations on Safety Management of Hazardous Chemicals

Catalogue of Hazardous Chemicals : This product is not listed in the catalogue of hazardous chemicals and it does not meet the definition of hazardous chemicals and its principles of determination.

Identification of Major Hazard Installations for Hazardous Chemicals (GB 18218) : Not listed

Hazardous Chemicals for Priority Management under SAWS : Not listed

Catalogue of Specially Controlled Hazardous Chemicals : Not listed

List of Explosive Precursors : Not listed

Regulations on Labour Protection in Workplaces where Toxic Substances are Used

Catalogue of Highly Toxic Chemicals : Not listed

Regulation of Environmental Management on the First Import of Chemicals and the Import and Export of Toxic Chemicals

China Severely Restricted Toxic Chemicals for Import and Export : Not listed

Measures on the Environmental Administration of New Chemical Substances Registration

Registration/Notification number : 新简登 J-140101
新简登 J-140089
新简登 J-190239
NA

Downstream users need to comply with the conditions of safe use of the chemical, understand the environmental and health hazard and risk management measures identified on the SDS as well as the local/national regulations concerning the chemical.

Regulation on the Administration of Precursor Chemicals

Catalogue and Classification of Precursor Chemicals : Not listed

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Regulations on the Administration of Controlled Chemicals

List of Controlled Chemicals : Not listed

Regulations of Ozone Depleting Substances Management

List of Controlled Ozone Depleting Substances : Not listed

List of Controlled Ozone Depleting Substances Import and Export : Not listed

Environmental Protection Law

List of Priority Controlled Chemicals : Not listed

List of Key Controlled New Pollutants : Not listed

16. OTHER INFORMATION

Revision Date : 2025/07/28

Date format : yyyy/mm/dd

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
CN OEL : Occupational exposure limits for hazardous agents in the workplace - Chemical hazardous agents.

ACGIH / TWA : 8-hour, time-weighted average
CN OEL / PC-TWA : Permissible concentration - time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity

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Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

Disclaimer

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.

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