

CLINO™ SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) NO. 1907/2006 (REACH)



REVISION DATE: JANUARY 1, 2025

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SECTION 1 : SUPPLIER IDENTIFICATION

1.1 PRODUCT IDENTIFIER (Trade Name)	Clino™
1.2 PRODUCT DESCRIPTION	Clinoptilolite Zeolite of sedimentary origin CAS No. 12173-10-3 EC Number: 215-283-8
1.3 SUPPLIER (COMPANY) INFORMATION	JMMITCHELL DBA CLINOSOURCE 1401 21st St. STE R Sacramento, CA 95811 +1 (209) 730-0506
1.4 EMERGENCY CONTACT INFORMATION	Contact Local Poison Control Center
1.5 RESTRICTIONS ON USE OR SALE	NONE

SECTION 2 : HAZARD IDENTIFICATION

<h3>2.1 CLASSIFICATION ACCORDING TO REGULATION (EC) 1272/2008</h3> <p>The classification is according to the latest editions of the EU-lists and extended by company literature data. The classification is in accordance with the latest editions of international substances lists and is supplemented by information from technical literature.</p>	<p>Product does not meet the criteria for classification.</p> <p>GHS Regulation</p> <p>H320 May cause eye irritation</p> <p>H335 May cause respiratory irritation</p> <p>P284 Use NIOSH approved respirator if dust is present</p> <p>P285 In case of inadequate ventilation, wear respiratory protection</p> <p>CLP Regulation – Not classified as hazardous</p> <p>Directive 67/548/EEC – Not applicable</p> <p>Directive 1999/45/EC – Not applicable</p>													
<h3>2.2 LABEL ELEMENTS</h3>	<p>Hazard pictogram</p> <p>Signal word</p> <p>Hazard determining components</p> <p>Hazard statements</p>	<p>Not regulated</p> <p>Warning</p> <p>None</p> <p>Not regulated</p>												
<h3>2.3 NFPA HAZARD RATING</h3> <div></div> <table><tr><td>Health (blue)</td><td>1</td><td>Can cause irritation if not treated</td></tr><tr><td>Flamability (red)</td><td>0</td><td>No precaution necessary</td></tr><tr><td>Reactivity (yellow)</td><td>0</td><td>No precaution necessary</td></tr><tr><td>Special (white)</td><td>0</td><td>None</td></tr></table>	Health (blue)	1	Can cause irritation if not treated	Flamability (red)	0	No precaution necessary	Reactivity (yellow)	0	No precaution necessary	Special (white)	0	None		
Health (blue)	1	Can cause irritation if not treated												
Flamability (red)	0	No precaution necessary												
Reactivity (yellow)	0	No precaution necessary												
Special (white)	0	None												

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SECTION 3 : COMPOSITION / INFORMATION ON INGREDIENTS

3.1 COMPOSITION	100% natural zeolite /clinoptilolite / hydrated aluminosilicate mineral
3.2 MIXTURES	Not applicable
3.3 DANGEROUS COMPONENTS	None in reportable quantities

SECTION 4 : FIRST AID MEASURES

4.1 GENERAL	If health problems occur or in case of doubt, call a doctor and provide them with the information stated in this SDS.	
4.2 TYPES OF HAZARDS	Acute & delayed	
INHALATION (wear dust mask)	If breathing is irregular or has stopped, seek medical assistance immediately and begin first aid measures. Ensure dust does not exceed 5 mg/m ³ or use dust mask.	Move person to fresh air and take measures to allow them to breathe comfortably. In case of respiratory irritation consult a doctor.
CONTACT WITH SKIN (wear protective gloves)	The product does not pose a risk after repeated application to skin and is not absorbed through the skin in harmful amounts.	Brush off loose particles from the skin. If irritation occurs rinse water with skin. If irritation continues remove and wash contaminated clothing.
CONTACT WITH EYES (wear eye protection)	Very mild and short term irritation of the conjunctival mucosa.	Do not rub eyes, so as not to damage the cornea by mechanical strain. Remove contact lenses, if present and easy to do. Rinse thoroughly with plenty of clean running water for at least 10 minutes. If irritation persists get medical attention.
INGESTION (do not eat)	No specifications. Can cause dehydration, drink a lot of water.	Avoid vomiting. Immediately rinse mouth and drink plenty of water. Never give anything by mouth to an unconscious person.

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SECTION 5 : FIREFIGHTING MEASURES

5.1 GENERAL	Non-flammable
5.2 EXTINGUISHING	Not applicable
5.3 ADDITIONAL INFORMATION	None

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS	Safety precautions for personal protection. Use suitable protective equipment (including the personal protective equipment mentioned in Section 8) to avoid any contamination of skin, eyes and personal clothing.
6.2 ENVIROMENTAL PRECAUTIONS	Non-hazardous
6.3 CLEANUP MATERIALS	Broom & dust pan, wash dust off with water. Remove dust film with vingar to neutralize alkali.

SECTION 7 : HANDLING AND STORAGE

7.1 HANDLING PRECAUTIONS	<p>To ensure the protection of health and safety at work, workers must use personal protective equipment</p> <p>Precautions must be taken during the preparation and handling of the product to ensure that the MEL for dust in ambient air is not exceeded;</p>
7.2 STORAGE PRECAUTIONS	<p>Product must be kept in closed and secured containers that protect the product from contamination, deterioration /mixing with other types of material/ and the absorption of moisture.</p> <p>The packaged product must be kept in the original closed packaging in dry and covered storage areas, separate from food, feed, medicines and disinfectants.</p>
7.3 SPECIFIC END USE	Various construction applications

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SECTION 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 CONTROL PARAMETERS	Not specified
8.2 EXPOSURE CONTROLS	Personal protective equipment. Refer to sections 4 and 8.3. Dust mask, gloves, adequate ventilation. Predominantly fibrogenic effect /the respirable limit is 5 µm.
8.3 INDIVIDUAL PROTECTION	<p>Respiratory protection: In case of the formation of dust use a dust mask.</p> <p>Eye protection: Wear suitable eye protection or face protection.</p> <p>Hand protection: Choose gloves with appropriate durability and resistance designed for given type of work. Follow the manufacturer's instructions and information regarding the use, storage, care and replacement of gloves.</p> <p>Skin protection: Protective work clothing and footwear.</p> <p>Thermal hazards: None</p>
8.4 ENVIRONMENTAL EXPOSURE CONTROLS	Avoid uncontrolled release into the environment.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1 BASIC PHYSICAL & CHEMICAL PROPERTIES	
Physical state	Solid
Colour	Light grey-green
Odour	No smell or odour
Melting/freezing point	1340 °C
Boiling point and boiling point range	No information available
Flammability	No information available
Lower and upper explosion limit	Non-explosive
Flash point	N/A up to 600 °C
Ignition temperature	Settled dust: negative up to 600 °C; stirred-up dust: negative up to 800 °C
Decomposition temperature:	negative up to 800 °C
pH value (at 20 oC, 1% solution)	No information available
Kinematic viscosity	6.5-8.5

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Solubility Distribution constant (log value) Vapour pressure Density and/or relative density Specific weight (kg/m3) Relative vapour density Properties of particles	No information available No information available No information available 2200-2440 No information available Crushed angular fractions
9.2 INFORMATION ON PHYSICAL HAZARD CLASSES	
a) Explosives	
sensitivity to shock	Not applicable
effect of heating under confinement	Not applicable
effect of ignition under confinement	Not applicable
sensitivity to impact	Not applicable
sensitivity to friction	Not applicable
thermal stability	Not applicable
package (type, size, net weight of the substance or mixture)	Not applicable
b) Flammable gases	
TCi	Not applicable
fundamental burning velocity	Not applicable
flammable gas mixture	Not applicable
explosion limits	Not applicable
fundamental burning velocity	Not applicable
c) Aerosols	
total percentage (by mass) of flammable components	Not applicable
d) Oxidising gases	
Ci (coefficient of oxygen equivalence)	Not applicable
e) Gases under pressure	
Critical temperature	Not applicable
gas mixture	Not applicable
pseudo-critical temperature	Not applicable
f) Flammable liquids	
boiling point	Not applicable
flash point	Not applicable
g) Flammable solids	
burning rate / time as regards metal powders	Not applicable
indication of wetted zone passed	Not applicable
h) Self-reactive substances and mixtures	
decomposition temperature	Not applicable
detonation properties	Not applicable
deflagration properties	Not applicable
effect of heating under confinement	Not applicable

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explosive power, if applicable	Not applicable
j) Self-igniting (pyrophoric) solids	
occurrence of spontaneous ignition when poured	Not applicable
or within five minutes thereafter	Not applicable
indication of whether pyrophoric properties could change over time	Not applicable
k) Self-heating substances and mixtures	Not applicable
indication of spontaneous ignition and maximum temperature rise obtained	
results of screening tests referred to Regulation (EC) No 1272/2008, if available	Not applicable
l) Substances which emit flammable gases in contact with water	Not applicable
identity of the emitted gas, if known	
indication of whether the emitted gas ignites spontaneously	Not applicable
gas evolution rate	Not applicable
m) Oxidising liquids	Not applicable
spontaneous ignition occurs when mixed with cellulose	Not applicable
n) Oxidising solids	Not applicable
spontaneous ignition occurs when mixed with cellulose	
o) Organic peroxides	Not applicable
decomposition temperature	Not applicable
detonation properties	
deflagration properties	Not applicable
effect of heating under confinement	Not applicable
explosive power	Not applicable
p) Substances corrosive to metals	Not applicable
metals that are corroded by the substance or mixture	Not applicable
corrosion rate and indication of whether it refers to steel or aluminium	Not applicable
reference to other Sections of the Safety Data Sheet with regard to compatible or incompatible materials	Not applicable
q) Desensitised explosives	
desensitising agent used	
exothermic decomposition energy	
corrected burning rate (Ac)	Not applicable
explosive properties of the explosive in state	Not applicable

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9.3 OTHER SAFETY CHARACTERISTICS

a) Mechanical sensitivity	Not applicable
b) Self-accelerating polymerisation temperature	Not applicable
c) Formation of explosible dust/air mixtures	Not applicable
d) Acid/alkaline reserve	Not applicable
e) Evaporation rate	Not applicable
f) Miscibility	Not applicable
g) Conductivity	Not applicable
h) Corrosiveness	Not applicable
i) Gas group	Not applicable
j) Redox potential	Not applicable
k) Radical formation potential	Not applicable
l) Photocatalytic properties	Not applicable

SECTION 10 : STABILITY AND REACTIVITY

10.1 Reactivity	None
10.2 Chemical stability	Highly stable
10.3 Possibility of hazardous reactions	None
10.4 Conditions to avoid	None
10.5 Incompatible materials	None
10.6 Hazardous decomposition products	None

SECTION 11 : TOXICOLOGICAL INFORMATION

LD 50	The acute dermal LD50 value could not be determined. No animal died after the application of a dose of 5,000 mg/kg to the back skin of the experimental animals.
Eye Irritation	Very mild and short-term irritation of the conjunctival mucosa. Except mild hyperaemia after 2 hours following the application of the product, which disappeared within 24 hours, no inflammatory changes of the conjunctival mucosa were observed.
Skin Irritation	Even several applications of the product do not cause inflammatory changes on intact or broken skin or other signs of toxicity.
Ingestion	No information available

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Effect on living organisms	Harmless. The product does not pose a risk after repeated application to the skin and is not absorbed through the skin in harmful amounts.
Skin corrosion / irritation	Multiple applications of the product do not cause inflammatory changes on intact or broken skin or other signs of toxicity
Serious eye damage	Except mild hyperaemia after 2 hours following the application of the product, which disappeared within 24 hours, no inflammatory changes of the conjunctival mucosa were observed
Respiratory or skin sensitisation	No information available
Germ cell mutagenicity	No information available
Carcinogenic	No information available
Reproductive toxicity	No information available
Specific target organ toxicity (STOT) - single exposure	No information available
Specific target organ toxicity (STOT) - repeated exposure	No information available
Aspiration hazard	No information available
Other information	No information available

SECTION 12 : STABILITY AND REACTIVITY

12.2 Persistence and degradability	No information available
12.3 Bioaccumulation potential	Not established
12.4 Mobility in soil	No information available
12.5 Results of PBT and vPvB assessment	No information available
12.6 Endocrine disrupting properties	No information available
12.5 Other adverse effects	No information available

SECTION 13 : DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods	Residues can be incorporated into the soil. Does not contaminate water and can be drained into the sewer system. Not a hazardous waste.
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SECTION 14 : TRANSPORT INFORMATION

Transport by ocean vessel, over the road, rail and air.	No regulation information
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SECTION 15 : REGULATORY INFORMATION

15.1 SAFETY HEALTH AND ENVIRONMENTAL REGULATIONS / LEGISLATION

Act No 67/2010 on the conditions of marketing chemical substances and chemical mixtures and on amendments to certain laws (Chemical Act)

Regulation of the Government of the SR No 355/2006 on the protection of employees from risks related to exposure to chemical factors at work, as amended

Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), as amended

COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) of the European Parliament and of the Council No 1907/2006 on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Regulation (EC) of the European Parliament and of the Council No 1272/2008 on the classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

Act No 223/2001 on wastes, as amended, and the decrees by which the Act is implemented

15.2 CHEMICAL SAFETY ASSESSMENT: Not specified

SECTION 16 : OTHER INFORMATION

The information on this Safety Data Sheet is believed to be accurate and is the best information available. This document is intended only as a guide to the appropriate precautions for handling. Clinosource makes no warranty of merchantability or any other warrant, expressed or implied with respect to the information or the product to which this Safety Sheet relates. Users and handlers of this product should make their own investigations to determine the suitability of the information provided herein for their own purposes.

Key/legend explaining the acronyms and abbreviations used in the SDS:

ADR: Accord européen sur le transport des dangereux par Route

IMDG: International Maritime Code for Dangerous

Goods IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical instruction by the "International Civil Aviation Organization"

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service

LD50: "Lethal Dose". Mean lethal dose

LC50: Mean lethal concentration.

COD: Chemical Oxygen Demand

BOD: Biochemical Oxygen Demand SDS: Safety Data Sheet