

MATERIAL SAFETY DATA SHEET

SECTION 1.

Product Name: CALIWEL WITH BNA / ANTIVIRAL ANTIMICROBIAL PAINT AND COATING -- CALCIUM HYDROXIDE (HYDRATED LIME) BASED Date: 10/2018
Product Code: 73696-2 Emergency: National Response Center (800) 424-8802
Alistagen Corporation
Ten Park Avenue, New York, NY 10019
EPA Reg. No: 73696-2

SECTION 2. HAZARDS

GHS Ratings

Skin corrosive	2	Reversible adverse effects in dermal tissue, Draize score: >= 2.3 < 4.0 or persistent inflammation
Eye corrosive	2B	Mild eye irritant: Subcategory 2B, Reversible in 7 days
Carcinogen	2	Limited evidence of human or animal carcinogenicity
Organ toxin single exposure	3	Transient target organ effects- Narcotic effects- Respiratory tract irritation

GHS Hazards

H315+H320 Causes skin and eye irritation
H319 Causes eye irritation

GHS Precautions

P260	Do not breathe dust/fume/gas/mist/vapors/spray
P264	Wash ... thoroughly after handling
P281	Use personal protective equipment as required
P363	Wash contaminated clothing before reuse
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P405	Store locked up
P501	Dispose of contents/container in accordance with state and local regulations

Signal Word: Danger



SECTION 3. COMPOSITION

Chemical Name	CAS number	Weight Concentration %
TITANIUM DIOXIDE	13463-67-7	10.00% - 20.00%

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SECTION 4. FIRST AID MEASURES

Remove the effected individual into fresh air and keep person calm. Seek medical attention.
If in eyes: Immediately flush effected eyes for at least 15 minutes under running water with eyelids held open.
Wash effected area thoroughly with soap and water. Seek medical attention
If swallowed: Immediately rinse mouth and then drink plenty of water, do not induce vomiting, seek medical attention.
Never induce vomiting or give anything by mouth if victim is unconscious or have convulsions.
Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

SECTION 5. FIRE FIGHTING MEASURES

Fire Extinguishing Media: Non-Flammable
Fire & Explosion Hazard Data (ASTM E84)
Flash Point (F): NA
Flame Spread Index (FSI): 0

Smoke Developed Index (SDI): 0
Ignition Time (Min:Sec): None
Maximum Temp. at Exposed TC (F°): 560

Time to Maximum Temp. (Min:Sec): 9:42
Flaming on Floor: None
Afterflame Top (Min:Sec): None
Afterflame Floor (Min:Sec): None
LEL: 1.0%
UEL: 5.0%
Flammability Classification: Non-Flammable
DOT: No information Special Fire Fighting Procedures: NA
Unusual Fire and Explosion Hazards: NA

SECTION 6. ACCIDENTAL RELEASE MEASURES

Spills should be contained, solidified, and placed in suitable containers for disposal. In the case of release to the environment, report spills to the National Response Center 1-800-424-8802.
Dispose of absorbed material in accordance with all local, state and federal regulations. For Hazardous Waste Regulation: Call the RCRA Hotline at 1-800-424-9346.
For small amounts: Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder). Pump off product.

SECTION 7. HANDLING AND STORAGE

General advice: No special measures necessary provided product is used correctly. General advice: Keep container tightly closed and in a cool place.

SECTION 8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits
TITANIUM DIOXIDE 13463-67-7	DRY ONLY: PEL - 15 Mg/m3	DRY ONLY: PEL - 15 Mg/m3

Respiratory protection: Wear respiratory protection if ventilation is inadequate. Respiratory protection in case of vapor/aerosol release.

Hand Protection: Chemical resistant protective gloves.

Eye Protection: Tightly fitting safety goggles (chemical goggles) and face shield.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Range 100 to 270 °C
% Weight Water 26.11
% Volume Volatile 0.00
% Weight Solids 3.25
% Volume Volatile (VOC) 0.00
Grams VOC/Liter Less Water 0.0

% Weight Solids 3.25
% Weight Volatile (VOC) 0.00
Specific Gravity (SG) 1.424
% Volume Solids 0.00
LBS VOC/Gallon Less Water 0.00
Coverage (sq ft/gal @ 1 mil) 0

SECTION 10. REACTIVITY

Conditions to avoid: No conditions that should be avoided.

Substances to avoid: No substances known that should be avoided.

Hazardous reactions: No hazardous reactions when stored and handled according to instructions. The product is chemically stable.

Incompatible Materials: Strong oxidizing agents

No hazardous decomposition products if stored and handled as prescribed/indicated.

Hazardous decomposition products: Carbon monoxide, carbon dioxide, organic products of combustion, oxides of sulfur.

Hazardous polymerization will not occur.

SECTION 11. TOXICOLOGY

Mixture Toxicity

Inhalation Toxicity LC50: 28mg/L

Component Toxicity

13463-67-7

TITANIUM DIOXIDE

Oral LD50: 5,000 mg/kg (RAT) Dermal LD50: 5,000 mg/kg (RABBIT) Inhalation LC50: 7 mg/L

Routs of entry of solids and liquid eye and skin contact.

Routs of entry for gasses include inhalation and eye contact.

Skin contact may be a rout of entry for liquefied gasses.

Effects of Overexposure

CAS Number

Description

% Weight

Carcinogen Rating

None

N/A

Virtually nontoxic after single ingestion.

Repeated dose Toxicity:

Repeated oral uptake of substance did not cause substance-related effects.

Repeated exhalative uptake of the substance did not cause substance-related effects.

Repeated dermal uptake of the substance did not cause substance-related effects.

The product has not been tested.

The statement has been derived from the properties of the individual components.

SECTION 12. ECOLOGICAL

Component Ecotoxicity

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SECTION 13. DISPOSAL

Waste disposal of substance:

Dispose of in accordance with national, state and local regulations. It is the waste generator's responsibility to determine if a particular waste is hazardous under RCRA.

Container disposal:

Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of containers.

SECTION 14. TRANSPORT

Land transport:

USDOT

Not classified as a dangerous good under transport regulations

Sea transport:

IMDG

Not classified as a dangerous good under transport regulations

Air transport:

IATA

Not classified as a dangerous good under transport regulations

Agency

DOT

Proper Shipping Name

PAINT

UN Number

non-hazardous

Packing Group

non-regulated

Hazard Class

water-based or latex

SECTION 15. REGULATORY

Country

Regulation

All Components Listed

EU Risk Phrases

Safety Phrase

- None

SECTION 16. OTHER INFORMATION

HMIS III rating

Health: 1

Flammability: 0

Physical hazard: 0

NFPA and HMIS use a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates extreme danger. Although similar, the two rating systems are intended for different purposes, and use different criteria. The NFPA system was developed to provide an on-the-spot alert to the hazards of a material, and their severity, to emergency responders. The HMIS system was designed to communicate workplace hazard information to employees who handle hazardous chemicals.

Hazardous Material Information System (HMIS)

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B

HMIS & NFPA Hazard Rating Legend

* = Chronic Health Hazard

0 = INSIGNIFICANT

1 = SLIGHT

2 = MODERATE

3 = HIGH

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