

ISSUE DATE: 1/15/2020

1. PRODUCT AND COMPANY IDENTIFICATION**GHS PRODUCT IDENTIFIER:**

TRADE NAME; BIOESQUE FIRE AND SMOKE ENCAPSULANT - WHITE

OTHER MEANS OF IDENTIFICATION:**RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE:**

RECOMMENDED USE: SURFACE COATING

SUPPLIER'S DETAILS:

BIOESQUE SOLUTIONS
150 EAST PALMETTO PARK ROAD
SUITE 110
BOCA RATON, FLORIDA 33432
(800) 921-4634

www.bioesquesolutions.com**24Hour Emergency telephone number:**

INFOTRAC: (800) 535-5053

2. HAZARD IDENTIFICATION**GHS CLASSIFICATION:**

GHS CLASSIFICATION SCALE: (1=SEVERE HAZARD, 4=SLIGHT HAZARD)

SERIOUS EYE DAMAGE/ IRRITATION

CATEGORY 2

LABEL ELEMENTS:

SIGNAL WORD: WARNING

HAZARD STATEMENTS:

Causes serious eye irritation

HAZARD SYMBOLS:



PRECAUTIONARY STATEMENTS:

Keep out of reach of children
Avoid breathing dust/mist/vapors/spray.
Wash thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection

PRECAUTIONARY STATEMENTS (RESPONSE):

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

PRECAUTIONARY STATEMENTS (STORAGE)

Keep out of reach of children
KEEP FROM FREEZING
Product is non-combustible

PRECAUTIONARY STATEMENTS (DISPOSAL):

Dispose of contents/container to an approved waste disposal plant in accordance with applicable local/regional/national and international regulations and product characteristics at time of disposal.

OTHER HAZARDS:

Repeated or prolonged exposure can cause skin dryness or cracking. When grinding dry films wear respiratory protection. Do not breathe mists during spray applications of this product, wear respiratory protection.

3. COMPOSITION INFORMATION ON INGREDIENTS

INGREDIENT IDENTITY	CAS NUMBER	PERCENTAGE
Acrylic emulsion		PROPRIETARY
Titanium dioxide	13463-67-7	7-12
Thymol	89-83-8	<1
Propane 1,2 diol	57-55-6	.5-3
2-amino-2-methyl-1-propanol	124-68-5	.1-.4

REMAINING INGREDIENTS ARE NOT REPORTABLE UNDER OSHA/SDS GUIDELINES. THE EXACT PERCENTAGES OF SOME INGREDIENTS HAVE BEEN WITHHELD AS (CBI) CONFIDENTIAL BUSINESS INFORMATION TRADE SECRET.

4. FIRST AID MEASURES

INGESTION: If swallowed, wash out mouth with water. Do not induce vomiting unless told to do so by a doctor or professional healthcare provider. If spontaneous vomiting occurs, keep head below hips to prevent aspiration of liquid into the lung. Never give anything by mouth to an unconscious person.

SKIN CONTACT: In case of accidental skin contact, remove contaminated clothing. Wash with soap and plenty of water for 15 minutes. Wash contaminated clothing before reuse. If irritation or allergic reaction occurs get medical advice.

INHALATION: No irritation expected; however if irritation occurs, move individual away from exposure and into fresh air. If breathing is irregular or stopped, administer artificial respiration. In case of shortness of breath, give oxygen. Call a physician immediately.

EYE CONTACT: If in eyes, rinse cautiously with water for several minutes. Remove contact lenses if easy to do. Continue rinsing. If eye irritation persists, get medical attention/advice.

Most Important Symptoms and Effects, Acute and Delayed

INGESTION: Symptoms may include diarrhea, gastric pain, and vomiting.

SKIN CONTACT: Symptoms may include redness, dryness and cracking of skin.

INHALATION: Not expected; however symptoms could include irritation of respiratory tract.

EYE CONTACT: Symptoms may include stinging, tearing, redness and blurred vision.

Indication of immediate medical attention and special treatment needed, if necessary.

Treat Symptomatically.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Use fire extinguishers suitable for surrounding fire.

Unsuitable extinguishing media- Not flammable

Specific hazards arising from the chemical: In a fire or if heated, a pressure increase can occur and the container may burst.

Hazardous thermal decomposition products: carbon monoxide and CO₂, possibly ammonia, irritating gases

Special protective actions for fire-fighters: Keep product containers and surrounding areas cool with water spray. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters: Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Avoid breathing mists. Put on appropriate personal protective equipment. Wear appropriate respirator when ventilation is inadequate.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of information in section 8 for further information. See also information in non-emergency personnel above.

Environmental precautions: Avoid dispersal of spilled material with waterways, drains and sewers. See section 12 for additional ecological information.

Methods and materials for containment and cleaning up.

Small spill: Stop leak if without risk. Move containers from the spill area. Absorb with an inert dry material such as diatomaceous earth or vermiculite and place in an appropriate waste disposal container. Mop any remaining residues with soap and water and dispose of wastes via a licensed waste disposal contractor according to federal, state and local regulations.

Large spill: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, drains, water courses and confined areas. Wash spillages into an effluent treatment plant or absorb with an inert dry material such as diatomaceous earth or vermiculite and place in a appropriate waste disposal containers. Mop any remaining residues with soap and water and dispose of wastes via a licensed waste disposal contractor according to federal, state and local regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling:

Safe Handling Advice: Utilize appropriate personal protective equipment when handling product. Do not swallow. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mists. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container and tightly closed when not in use. Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection and face protection during use. Emptied containers can contain product residues and require handling with all safety precautions in mind listed on this sds. Do not reuse container and dispose of in accordance with federal, state and local regulations.

Advice on general occupational hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also section 8 for additional hygiene information.

Conditions for safe storage including any incompatibilities:

Store in original container in a dry, cool and well ventilated area away from strong oxidizing agents (see section 10) and food and drink. Keep container tightly closed when not in use and away from children. Do not store in unlabeled containers. Do not freeze.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

<u>Control Parameters</u>	<u>Occupational Exposure Limits</u>		
<u>Ingredient Identity</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>NIOSH IDLH</u>
Titanium dioxide, 13463-67-7	TWA 10mg/m ³	TWA 15mg/m ³ total dust (vacated) 10mg/m ³ total dust	IDLH 5000
Propane 1,2 diol 57-55-6	TWA 10mg/m ³	WEEL USA Workplace Environmental Exposure Levels	

Appropriate Engineering Controls

Engineering Controls: Use only with adequate ventilation. General room ventilation is required. Local mechanical ventilation may be necessary if working with this product in enclosed areas and/or at elevated temperatures. Maintain adequate ventilation. Avoid creating dust or mist. Do not use in closed or confined spaces without adequate ventilation.

Individual protection measures, such as personal protective equipment. (PPE)

Eye/Face Protection: Wear approved safety goggles with side shields. Wear additional eye protection such as chemical safety goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material.

Skin & Body Protection: Wear chemical resistant, impervious gloves at all times when handling -chemical products. Check during use that gloves are still retaining their impervious properties, as the time for breakthrough can change from different manufacturers and chemical mixtures can not always be accurately measured. Appropriate footwear and suitable protective clothing should be worn for the degree and risk of exposure.

Respiratory Protection: If workplace exposure limits of product or any component is exceeded, utilize proper respiratory protection program guidelines (see OSHA 1910.134 and American National Standard ANSI Z88.2) Use a properly fitted, NIOSH/MSHA air-purifying or air-fed respirator with organic vapor cartridge and dust/mist filter in compliance with the above mentioned standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: white opaque liquid

Odor: slight odor, near odorless

Odor threshold: not available

pH: 8-9

Melting Point/Freezing Point: N.D.

Initial Boiling Point/Range: not applicable

Flash Pt: not flammable

Evaporation Rate: N.D. (butyl acetate=1)

Lower explosive limits: not applicable

Upper explosive limits: not applicable

Vapor Pressure: N.D.

Vapor Density: N.D. (air=1)

Relative Density: 1.19

Solubility in water: Miscible

Partition coefficient: not applicable

Auto ignition temp: not applicable

Decomposition Temp: not available

Viscosity: flowable viscous liquid,

10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: No data available

Conditions to Avoid: elevated temperatures

Incompatible Materials: Oxidizing materials

Hazardous Decomposition Products: Carbon monoxide and Carbon Dioxide, irritating vapors.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: Not classified, However as a nuisance dust, prolonged exposures to titanium dioxide above published exposure levels may cause adverse effects to the lungs.

Titanium Dioxide-oral LD50-5000mg/kg rat, inhalation-LC50-6.81mg/l 4hr

Skin corrosion irritation: Not classified,

Serious Eye damage/irritation: classified Category 2 irritant,

Sensitization: Not classified,

Mutagenicity: Not classified,

Carcinogenicity: Titanium Dioxide is listed by IARC as possibly carcinogenic to humans (group 2b). This listing is based on inadequate evidence of carcinogenicity in humans and sufficient evidence in experimental animals.

In lifetime inhalation studies of rats, airborne respirable size titanium dioxide particles have been shown to cause lung tumors at concentrations associated with substantial particle lung burdens and consequential pulmonary overload and inflammation. However, other laboratory animals such as mice and hamsters did not develop lung tumors under similar testing with titanium dioxide. Furthermore, human epidemiology studies do not suggest an association between occupational exposure to titanium dioxide and risk for cancer.

Titanium Dioxide- ACGIH-no, IARC-group2b, NTP-no, OSHA-X

Reproductive Toxicity: Not classified

Teratogenicity: Not classified

Specific target Organ Toxicity (single exposure)

Not classified

Specific target Organ Toxicity (repeated exposure):

<u>Name</u>	<u>category</u>	<u>route of exposure</u>	<u>target organs</u>
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Not classified

Aspiration Hazard: No Data

Information on the likely routes of exposure:

Ingestion: May be harmful if swallowed.

Inhalation: Do not breathe vapors or mists.

Skin: Avoid contact with skin. Wash skin with soap and water for 15 minutes.

Eye: Causes serious eye irritation

Symptoms related to the physical, chemical and toxicological characteristics

Ingestion: See section iv, most important symptoms and effects, acute and delayed.

Inhalation: See section iv, most important symptoms and effects, acute and delayed.

Skin: See section iv, most important symptoms and effects, acute and delayed.

Eye: See section iv, most important symptoms and effects, acute and delayed.

Delayed and immediate effects and also chronic effects from short and long term exposure.

General: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis

Carcinogenicity: no known significant effects or critical hazards. Not classifiable.

Numerical measures of Toxicity

Not Available

12. ECOLOGICAL INFORMATION**Toxicity:**

Component Data:

Propane 1,2 diol, 57-55-6	Crustacea	EC50	Daphnia	10000mg/l 48hr
	Fish	LC50	Fish	36991 mg/l 96hr

2-amino-2-,ethyl-1-propanol- Bluegill Sunfish LC50 190 mg/l 96hr

Crangon (shrimp) LC50 179 mg/l 96hr

Bioaccumulation Potential:

2-amino-2-,ethyl-1-propanol- BCF factor <1

Titanium dioxide- does not bioaccumulate

Biodegradability:

2-amino-2-,ethyl-1-propanol- readily biodegradable

Mobility in Soil:

No data

Other adverse Effects:

No known significant effects or critical hazards

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with applicable federal, state and local regulations.

14. TRANSPORTATION INFORMATION

DOT: NOT REGULATED
IATA: NOT REGULATED
IMDG: NOT REGULATED

15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS: All ingredients are listed or exempted with TSCA.

SARA 302/304: No products were found.

SARA 311/312: Acute,

Ingredient	%	FIRE HAZARD	PRESSURE RELEASE	REACTIVE	IMMEDIATE ACUTE	DELAYED CHRONIC
2-amino-2-methyl- 1-propanol 124-68-5	.1-.4	YES	NO	NO	YES	YES

SARA 313: No products found above De Minimis levels

STATE REGULATIONS:

Ingredient	New York	New Jersey	Massachusetts	Pennsylvania
Propane 1,2,diol 57-55-6	No	Yes	No	Yes
2-amino-2-methyl- 1-propanol 124-68-5	No	Yes	Yes	Yes
Titanium dioxide 13463-67-7	No	Yes	Yes	Yes

California Prop 65: Titanium dioxide, carcinogen

16. OTHER INFORMATION

HMIS RATING: HEALTH (1) FIRE (0) REACTIVITY (0)
4=EXTREME, 3=HIGH, 2=MODERATE, 1=SLIGHT, 0=INSIGNIFICANT

NOTICE TO READER:

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. The information on this sds was obtained from sources which we believe are reliable. However, the information is provided without any warranty, expressed or implied, regarding its correctness. Users are advised to confirm in advance of need, that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the sds. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed.