

MATERIAL SAFETY DATA SHEETS BENTONITE OCMA

1. Identification Of Substance / Preparation and Company

1.1 Product name : BENTONITE OCMA
 Other names : Sodium Montmorillonte
 General Description : Hydrated Aluminum Silicate
 Molecular Weight : No Data
 formula : (Na,Ca)0.33 (Al,07MgO73)Si4O10(OH)2nH2O

2.Composition / Information on Ingredients

normalized XRF Data :

Na ₂ O	2.15	TiO ₂	1.25
MgO	3.25	Cr ₂ O ₃	0.01
Al ₂ O ₃	24.4	P ₂ O ₅	0.11
SiO ₂	55.5	SO ₃	0.31
K ₂ O	0.600	MnO	0.06
CaO	2.67	Ci	0.35
Fe ₂ O ₃	8.3		

2.1: Treatment Process:

We treat the bentonite by soda ash by adding 4-6% on wet to the bentonite to activate it to be **Activated Bentonite** (Ocma Bentonite).

HAZARDOUS INGREDIENTS

HAZADROUS DATA

3. HAZARDOUS INGREDIENTS

- 3.1 INHALATION
MAY CAUSE IRRITATION TO THE SYSTEM
HIGH CONCENTRATION CAN CAUSE LUNG DAMAGE
- 3.2 INGESTION
LOW ORDER OF LOXIELTY
- 3.3 SKIN
CAUSES IRRITATION OF THE SKIN
- 3.4 EYES :
EYE IRRITATION
- 3.5 CARCINOGENICITY:
CONTAINS QUARTZ, WHICH CAN BE CARCINOGENIC
- 3.6 HAZARD CATEGORIR NOT CLASSIFIED

MATERIAL SAFETY DATA SHEETS BENTONITE OCMA

4. FIRST – AID MEASURES

EYE CONTACT :

PROMPTLY WASH EYES WITH LOTS OF WATER WHILE LIFTING EYELIDS
GET MEDICAL ATTENTION IF ANY DISCOMFORT CONTINUES .

SKIN CONTACT:

DUST OFF PROMPTLY AND FLUSH CONTAMINATED SKIN WITH WATER
GET MEDICAL ATTENTION IF IRRITATION PERSISTS AFTER WASHING

INHALATION:

REMOVE TO FRESH AIR.
GET MEDICAL ATTENTION FOR ANY BREATHING DIFFICULTY.

INGESTION:

DRINK PLENTY OF WATER .
GET MEDICAL ATTENTION.

5. FIRE – FIGHTING MEASURES

HAZARD CLASS:

ER NOT CLASSIFIED

PROCEDURES:

THIS MATERIAL IS NOT FLAMMABLE.

EXPOSURE HAZARDS:

NONE NOTED.

PROTECTIVE EQUIP:

RESPIRATORY AND EYE PROTECTION REQUIRED.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTION:

CAUSES SLIPPERY SURFACES WHEN WET.

ENVIRONMENTAL PRECAUTION:

INFORM AUTHORITIES IF LARGE AMOUNT INVOLVED.

CLEAN – UP METHODS:

SHOVEL INTO DRY CONTAINERS.
COVER, MOVE CONTAINER.
FLUSH AREA WITH WATER.
AVOID GENERATING DUST.

MATERIAL SAFETY DATA SHEETS BENTONITE OCMA

7. HANDLING & STORAGE

- 7.1 HANDLING:
DO NOT USE IN CONFINED SPACES WITHOUT ADEQUATE VENTILATION.
- 7.2 STORAGE:
KEEP IN COOL ,DRY,VENTILATED STORAGE IN TIGHTLY CLOSED CONTAINERS.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 RESPIRATORY PROTECT:
NO SPECIFIC RECOMMENDATION MADE BUT PROTECTION AGAINST DUST MUST BE USED IF GENERAL LEVEL EXCEEDS 10mg/m³.
- 8.2 HAND PROTECTION:
USE PROTECTION GLOVES.
- 8.3 EYE PROTECTION:
USE EYE PROTECTION.
- 8.4 SKIN PROTECTION:
AVOID CONTACT WITH SKIN AS GOOD INDUSTRIAL PRACTICE.

9. PHYSICAL AND CHIMICAL PROPERTIES

9.1	BOILING POINT:	NOT APPLICABLE.
9.2	MELTING / FREEZING POINT:	>1250 C
9.3	DENSITY:	2.0-3.0 (S.G.).
9.4	VAPOUR PRESSURE:	NOT APPLICABLE.
9.5	VAPOUR DENSITY:	NOT APPLICABLE.
9.6	SOLUBILITY IN WATER:	INSOLUBLE.
9.7	EVAPORATION RATE:	NOT APPLICABLE.
9.8	FORM & APPEARANCE:	POWDER, DUST.
9.9	ODOUR:	NO CHARACTERISTIC ODOUR.
9.10	COLOUR	GREEN YELLOW.
9.11	PH:	9.5 (SAT. SOLN. IN H ₂ O).
9.12	VISCOSITY OF LIQUID	NOT APPLICABLE.
9.13	COEFF, THERMAL EXPANS:	NO DATA.
9.14	FLASH POINT:	WILL NOT FLASH.
9.15	FLAMMABILITY (SOILD, GAS)	NOT APPLICABLE.
9.16	AUTOFLAMMABILITY:	NOT APPLICABLE.
9.17	EXPLOSIVE PROPERTY:	NONE.
9.18	OXIDSING PROPERTY:	NONE.
9.19	LOG POW:	NO DATA.

MATERIAL SAFETY DATA SHEETS

BENTONITE OCMA

10. STABILITY AND REACTIVITY

- 10.1 STABILITY:
NO PARTICULAR STABILITY CONCERNS.
- 10.2 CONDITIONS TO AVOID INSTABILITY :
NONE.
- 10.3 INCOMPATIBILITY:
NONE.
- 10.4 CONDITIONS TO AVOID INCOMPATIBILITY:
NONE.
- 10.5 HAZARDOUS DECOMPOSITION PRODUCTS:
NO HAZARDOUS DECOMPOSITION PRODUCTS ARE EXPECTED.
- 10.6 DECOMPOSITION POLYMERIZATION:
WILL NOT POLYMERIZE.
- 10.7 CONDITIONS TO AVOID HAZARDOUS POLYMERIZATION:
NONE.

11. TOXICOLOGICAL INFORMATION

- | | | | |
|------------------------|----------------|----------------------------|---------------------|
| 11.1 INHALATION | : | NO DATA | METHOD: |
| 11.2 INGESTION | : | TDLO 12.000 g/kg (mouse) | METHOD: ACUTE ORAL. |
| 11.3 SKIN | : | NO DATA | METHOD: |
| 11.4 EYE | : | DUST IRRITATING | METHOD: |
| 11.5 SENSITIZATION | : | NO DATA | METHOD: |
| 11.6 CARCINOGENICITY: | SEE NOTE BELOW | | METHOD: |
| 11.7 MUTAGENICITY | : | NO DATA | METHOD: |
| 11.8 TERA TOGENICITY : | NO DATA | | METHOD: |

12. ECOLOGICAL INFORMATION

- 12.1 ACUTE TOXITY:
RAINBOW, Trout 96 hr LC5010.000 ppm.
OYSTER 192 DAYS LC50 110 ppm.
- 12.2 GROWTH INHIBITION: SPECIES: NO DATA CONCENTRARION:
- 12.3 INTEREFENCE WITH BIOTREATMENT:
NO DATA.
- 12.4 BIODEGRADABILITY :
- | | | |
|-------------------|---------------|---------|
| % BIODEGRADATION: | TIME: NO DATA | METHOD: |
| (AEROBIC) | | |
| % BIODEGRADATION: | TIME: NO DATA | METHOD: |
| (ANAEROBIC) | | |

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13. DISPOSAL CONSIDERATIONS

DISPOSE OF IN ACCORDANCE WITH LOCAL AUTHORITY REQUIREMENTS.

14. TRANSPORTATION INFORMATION

14.1 TRANSPORTATION CLASS :	NOT CLASSIFIED	LABEL :	NONE REQUIRED.
14.2 U.N. NUMBER :	NA	PAGE:	
14.3 SEA IMDG. CLASS :	NA	SUBSTANCE NO.:	
14.4 ROAD ADR CLASS :	NA	ART NO.:	
14.5 AIR IACO CLASS :	NA	SUBSTANCE NO.:	
14.6 RAIL RID CLASS :	NA		

15. REGULATORY INFORMATION

15.1 HAZARD CATEGORY : NOT REGULATED.
15.2 R- SENTENCE:
15.3 S- SENTENCE:

16. OTHER INFORMATION

THIS PRODUCT CONTAINS FREE CRYSTALLINE SILICA, WHICH HAS EXHIBITED LIMITED EVIDENCE OF CARCINOGENICITY IN HUMANS. PROLONGED INHALATION OF THE DUST MAY RESULT IN SILICOSIS, A NON-CANCEROUS LUNG DISEASE. AVOID CREATING DUSTY CONDITIONS AND USE APPROVED NON-TOXIC DUST RESPIRATOR.

ALL INFORMATION, RECOMMENDATIONS AND SUGGESTIONS HEREIN CONCERNING OUR PRODUCTS ARE BASED UPON TESTS AND DATA BELIEVED TO BE RELIABLE, HOWEVER, IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE SAFETY, TOXICITY AND SUITABILITY FOR HIS OWN USE CONTROL, NO GUARANTEE, EXPRESSED OR IMPLIED IS MADE BY ICMI AS TO EFFECTS OF SUCH USE, THE RESULTS TO BE OBTAINED OR THE SAFETY AND TOXICITY OF THE PRODUCT NOR DOES ICMI ASSUME ANY LIABILITY ARISING OUT OF THE USE, BY OTHER, OF THE PRODUCT REFERRED TO HEREIN.

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