



11039 - ENTC (BARITE)

REVISION DATE: 18 May 2013

SAFETY DATA SHEET (BARITE)

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY:

PRODUCT NAME: BARITE
 SYNONYMS, TRADE NAMES: BARIUM SULPHATE, BARYTES
 APPLICATIONS: WEIGHTING MATERIAL FOR DRILLING FLUIDS
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2. COMPOSITION/INFORMATION ON INGREDIENTS:

INGREDIENT NAME:	EINECS	CAS No.:	CONTENT	SYMBOL	RISK:
BARIUM SULPHATE	231-784-4	7727-43-7	85-90 wt%	NC	Not classified.,
CRYSTALLINE SILICA – QUARTZ	238-878-4	14808-60-7	1-5 wt%	Xn	48/20, 68/20
IRON OXIDE	215-570-8	1332-37-2	3-7 wt%	NC	Not classified.,

The full text for all R-phrases are shown in section 16

COMPOSITION COMMENTS:

The respirable fraction of crystalline silica is <0.1 %wt.

3. HAZARDS IDENTIFICATION:

Not classified as a health hazard as defined under the Chemicals (Hazard Information and Packaging for Supply) Regulations, 2002. However exposure limits detailed in Section 8 should be observed. Long term inhalation (years) of dust may cause adverse health effects. See section 11.

4. FIRST AID MEASURES:

GENERAL: No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!





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REVISION DATE: 18 May 2013

- INHALATION:** Move the exposed person to fresh air at once. Rest and keep warm. Get medical attention if adverse symptoms develop or persist.
- INGESTION:** Immediately rinse mouth and provide fresh air. Contact physician if large quantity has been consumed or if adverse symptoms develop.
- SKIN:** Wash skin with soap and water. Get medical attention promptly if symptoms occur after washing.
- EYES:** Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention if any discomfort continues.

5. FIRE FIGHTING MEASURES:

EXTINGUISHING MEDIA:

This material is not flammable. Use extinguishing media appropriate for surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES:

No specific firefighting procedure given.

UNUSUAL FIRE & EXPLOSION HAZARDS:

Surfaces covered with this product will become extremely slippery when wet.

6. ACCIDENTAL RELEASE MEASURES:

PERSONAL PRECAUTION IN SPILL:

Wear protective clothing and equipment. If spilled material becomes wet, it may be slippery underfoot. Wear safety slip-proof shoes during clean-up operation. For further information on suitable protective clothing see Section 8 of the safety data sheet "Exposure Controls and Personal Protection".

SPILL CLEANUP METHODS:

Sweep, or vacuum up and reclaim or transfer to waste containers as appropriate, avoiding the creation of excess dust. If using a vacuum system, this should be earthed to avoid the risk of static electricity igniting the air/dust mixture.

7. HANDLING AND STORAGE:

USAGE PRECAUTIONS:

Avoid creating dust during use. Protective measures during handling are detailed in Section 8 of this Safety Data Sheet "Exposure Controls and Personal Protection".

STORAGE PRECAUTIONS:

Keep in cool, dry, ventilated storage and closed containers. Store away from - aluminum.





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REVISION DATE: 18 May 2013

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION:

INGREDIENT NAME:	CAS No.:	STD:	LT EXP. 8 HRS:	ST EXP. 15 MIN:
CRYSTALLINE SILICA – QUARTZ	14808-60-7	MEL	0.3 mg/m ³ resp.dust	No std.

INGREDIENT COMMENTS:

MEL = Maximum Exposure Limit.

PROTECTIVE EQUIPMENT:



VENTILATION: Provide adequate general and local exhaust ventilation to keep airborne levels below the designated exposure limits.

RESPIRATORS: If ventilation is insufficient, suitable respiratory protection must be provided. Wear suitable dust mask. Dust filter P3 (for especially fine dust/powder).

PROTECTIVE GLOVES:

Use protective gloves made of: Rubber or plastic.

EYE PROTECTION:

Wear safety glasses or goggles at all times.

HYGIENIC WORK PRACTICES:

Wash at the end of each work shift and before eating, smoking and using the toilet.

9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE:	Powder, dust.
COLOUR:	White.
ODOUR/TASTE:	Odourless or no characteristic odour.
SOLUBILITY DESCRIPTION:	Insoluble in water. Insoluble in organic solvents.
MELT./FREEZ. POINT (°C, interval):	1580
DENSITY/SPECIFIC GRAVITY (g/ml):	4.2 - 4.25
BULK DENSITY:	1714 - 2163 kg/m ³
VOLATILE BY VOL. (%):	Very low
pH-VALUE, DILUTED SOLUTION:	7
FLASH POINT (°C):	Non-flammable
CONCENTRATION (%M):	2% aq.
METHOD:	

10. STABILITY AND REACTIVITY:

STABILITY: Stable.

CONDITIONS TO AVOID:

Avoid wet and humid conditions.

HAZARDOUS POLYMERIZATION:

Will not polymerize.

MATERIALS TO AVOID:

Aluminum, Phosphorus and its compounds.

HAZARDOUS DECOMP. PRODUCTS:

If involved in a fire, it may emit noxious and toxic fumes. High temperatures generate: Sulphurous gases (SO_x).





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11. TOXICOLOGICAL INFORMATION:

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Rat Oral LD50 >20,000 mg/kg

INHALATION: May cause irritation to the respiratory tract.

INGESTION: Does not present a significant health hazard. May cause a stomach upset.

SKIN: Prolonged or repeated contact may cause defatting and dryness of the skin.

EYES: May cause mild mechanical irritation.

HEALTH WARNINGS:

Long term exposure to dust in excess of the Occupational Exposure Limit may result in fibrosis of the lung tissue. The presence of crystalline silica may lead to silicosis if the Maximum Exposure Limit is persistently exceeded over a long period of time.

12. ECOLOGICAL INFORMATION:

ECOLOGICAL INFORMATION:

Product is on the OSPAR PLONOR List ie. Poses little or no risk to the environment.

MOBILITY: This material is insoluble in water and will sink in the marine environment.

BIO ACCUMULATION:

Does not bioaccumulate.

DEGRADABILITY:

This material is inorganic and therefore is not subject to biodegradation.

ACUTE FISH TOXICITY:

Not classified as harmful to aquatic organisms.

WATER HAZARD CLASSIFICATION:

UK OCNS group E.

13. DISPOSAL CONSIDERATIONS:

DISPOSAL METHODS:

Recover and reclaim or recycle, if practical. Dispose of using licenced waste hauliers and disposal contractors.





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14. TRANSPORT INFORMATION:

ROAD TRANSPORT:

ROAD TRANSPORT NOTES:

Not Classified for Road Transport

RAIL TRANSPORT:

RAIL TRANSPORT NOTES:

Not Classified for Rail Transport

SEA TRANSPORT:

SEA TRANSPORT NOTES:

Not Classified for Sea Transport

AIR TRANSPORT:

AIR TRANSPORT NOTES:

Not Classified for Air Transport

15. REGULATORY INFORMATION:

RISK PHRASES:

Not classified.

SAFETY PHRASES:

S-22 Do not breathe dust.

S-38 In case of insufficient ventilation, wear suitable respiratory equipment.

UK REGULATORY REFERENCES:

Prepared in accordance with the Chemicals (Hazard Information & Packaging for Supply)

Regulations, 2002 (CHIP 3).

EU DIRECTIVES:

Dangerous Preparations Directive 88\379. MSDS prepared according to 2001/58/EC (second amendment of 91/155/EC).

16. OTHER INFORMATION:

REVISION COMMENTS:

Sections changed since last update: 2, 3, 6, 8, 9, 10, 11, 12, 13, 15.

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18 May 2013

REV. No./REPL. SDS GENERATED:

25 July 2004

R-PHRASES (Full Text)

Not classified.

R-68/20 Harmful: possible risk of irreversible effects through inhalation.

R-48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

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