

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Commercial Product Name : Bolan Bar

Chemical name of the substance : Barium sulfate, BaSO4

EC No : 231-784-4 CAS No. : 7727-43-7

1.2. Relevant identified uses of the substance or mixture and uses advised against

Main use category : Industrial use

Specific use(s) : Drilling applications : Oil and gas well exploration drilling.

1.3. Details of the supplier of the safety data sheet

Company : Bolan Mining Enterprises

BME, House 3B & 8B Model Town, Quetta, Balochistan, 83700

Pakistan

Tel.+92-81-2836169-172 Fax:+92-81-2838207

E-mail address:RM@bme.com.pk

1.4. Emergency telephone number

Emergency telephone : +92-81-2836169-172 (This telephone number is available during office

hours only.)

IRELAND (REPUBLIC OF)

National Poisons Information Centre

Beaumont Hospital UNITED KINGDOM

National Poisons Information Service

(Birmingham Centre)

City Hospital

+353 1 8379964

+44 (0) 870 600 6266 (UK only)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.1. Classification according to Regulation (EU) 1272/2008

CLP-Classification : Not a hazardous substance or mixture according to Regulation (EC)

No. 1272/2008.

Not classified

2.1.2. Classification according to EU Directives 67/548/EC or 1999/45/EC

Classification : Not a hazardous substance or mixture according to EC-directives

67/548/EEC or 1999/45/EC.

Not classified

2.2. Label elements

2.2.1. Labelling according to Regulation (EU) 1272/2008

Not applicable.

2.2.2. Labelling according to Directives (67/548 - 1999/45)

SAFETY DATA SHEET	Page : 2/ 9
ON EIT BATTA GITEET	Revision nr : 1
	Issuing date : 29/05/2012
Bolan Bar	Supersedes :

Not relevant

2.3. Other hazards

Other hazards which do not result in classification

: This substance is not considered to be very persistent nor very bioaccumulating

(vPvB).

This substance is not considered to be persistent, bioaccumulating nor toxic

(PBT).

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance name	Product identifier	% Classification according to Directive 67/548/EEC
Barium sulfate	(CAS No.) 7727-43-7 (EC No) 231-784-4 (EC Index) -	80 - 95 Not classified
Substance name	Product identifier	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Barium sulfate	(CAS No.) 7727-43-7 (EC No) 231-784-4 (EC Index) -	80 - 95 Not classified

Full text of R-, H- and EUH-phrases: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

: Keep at rest.

Move to fresh air.

Call a physician if irritation develops or persists.

Skin contact

: Wash off with soap and water.

If skin irritation persists, call a physician.

Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least

15 minutes

If eye irritation persists, consult a specialist.

Ingestion

: Rinse mouth.

Drink plenty of water

If you feel unwell, seek medical advice.

Additional advice

: First aider needs to protect himself.

See also section 8

Never give anything by mouth to an unconscious person. Show this safety data sheet to the doctor in attendance.

Treat symptomatically.

2. Most important symptoms and effects, both acute and delayed

Inhalation : No adverse effects are expected. May cause irritation of respiratory tract.

Skin contact : No adverse effects are expected. May be irritating.

Eye contact : Dust contact with the eyes can lead to mechanical irritation.

Ingestion : Ingestion of larger amounts may cause defects to the central nervous

system (e.g. dizziness, headache).

4.3. Indication of any immediate medical attention and special treatment needed

No data available

Page: 3/9 SAFETY DATA SHEET Revision nr:1 Issuing date: 29/05/2012 Supersedes: **Bolan Bar**

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide (CO2), Dry chemical, Water spray, Alcohol-resistant foan

Extinguishing media which shall not be used : High volume water jet

for safety reasons

Special hazards arising from the substance or mixture 5.2.

Fire hazard : The product is not flammable.

: Risk of dust explosion. Specific hazards

Possible decomposition products are: COx. SOx. BaC

Advice for firefighters

Advice for firefighters Evacuate personnel to safe areas.

Special protective equipment for firefighters

In the event of fire, wear self-contained breathing apparatus.

Avoid dust formation.

Remove all sources of ignition

Cool containers / tanks with water spray.

Fire residues and contaminated fire extinguishing water must be disposed of

in accordance with local regulations.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

: Ensure adequate ventilation. Advice for non-emergency personnel

Evacuate personnel to safe areas.

Avoid dust formation.

Remove all sources of ignition.

Wear personal protective equipment.

See also section 8 Avoid contact with eves.

Do not breathe dust.

Take precautionary measures against static discharges.

Advice for emergency responders Only qualified personnel equipped with suitable protective equipment may

intervene.

6.2. **Environmental precautions**

: Do not flush into surface water or sanitary sewer system. Environmental precautions

Methods and material for containment and cleaning up

Methods for cleaning up : Material can create slippery conditions.

Sweep up or vacuum up spillage and collect in suitable container for disposal.

Dispose of in accordance with local regulations.

Reference to other sections

See also section 8 See also section 13.

SAFETY DATA SHEET Page: 4/ 9 Revision nr: 1 Issuing date: 29/05/2012 Supersedes: Supersedes:

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling : Ensure adequate ventilation.

Do not breathe dust. Avoid contact with eyes.

Wear personal protective equipment.

See also section 8.

Take any precaution to avoid mixing with Incompatible materials.

See also section 10

Keep away from heat and sources of ignition.

Avoid dust formation.

Take care to avoid waste and spillage when weighing, loading and

mixing the product.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

Wash hands and face before breaks and immediately after handling the

product.

Keep away from food, drink and animal feeding stuffs.

7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep containers tightly closed in a dry, cool and well-ventilated place.

Avoid dust formation.

Do not store near or with any of the incompatible materials listed in

section 10.

Keep away from open flames, hot surfaces and sources of ignition.
Packaging material : Store in original container. Polypropylene Woven Jumbo bag.

Containers which are opened must be carefully resealed and kept

upright to prevent leakage.

7.3 Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit(s)

Component : Barium sulfate (7727-43-7)

TLV-TWA (mg/m³) : 10 (BE, ES); 4 resp/10 inh (GB); 1,5 resp/4 inh (NL)

Recommended monitoring procedures : Personal monitoring

Concentration measurement in air

8.2. Exposure controls

Personal protective equipment : The type of protective equipment must be selected according to the

concentration and amount of the dangerous substance at the specific

workplace.

Respiratory protection : not required under normal use.

In case of insufficient ventilation wear suitable respiratory equipment.

Effective dust mask. (EN 149).

Respirator with a half face mask (EN 140) Respirator with a full face mask (EN 136) Recommended Filter type: P (EN 143)

Hand protection : Protective gloves (EN 374) may be used. The selection of specific

gloves for a specific application and time of use in a working area, should also take into account other factors on the working space, such

| Page : 5/ 9 | Revision nr : 1 | Issuing date : 29/05/2012 | | Bolan Bar | Supersedes : |

as (but not limited to): other chemicals that are possibly used, physical

requirements (protection against cutting/drilling, skill, thermal protection), and the instructions/specification of the supplier of gloves.

Neoprene gloves, natural rubber gloves, PVC.

Eye protection : Safety glasses (EN166)

Thermal hazard protection : not required under normal use.

Engineering measures : Use only in area provided with appropriate exhaust ventilation.

Organisational measures to prevent /limit releases, dispersion and

exposure

See also section 7

Environmental exposure controls : Do not flush into surface water or sanitary sewer system.

Comply with applicable Community environmental protection legislation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance : powder (200 mesh), ore / lumps (0-325 mm)

Colour brown, grey Odour odourless Melting point/range 1580 °C Boiling point/boiling range not applicable not applicable Flash point Evaporation rate not applicable not applicable Vapour density Relative density 4.20-4.25 mg/cm³ Water solubility slightly soluble Partition coefficient: n-octanol/water no data available Explosive properties not applicable

The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the

molecule.

Oxidizing properties : not applicable

The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with

oxidising properties.

9.2. Other information

Other data : Barium content 80% to 95%

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Stable under normal conditions.

See also section 10.5

10.2. Chemical stability

Stability : Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions : Potential dust explosion hazard.

SAFETY DATA SHEET Page: 6/ 9 Revision nr: 1 Issuing date: 29/05/2012 Supersedes: Supersedes:

10.4. Conditions to avoid

Conditions to avoid : Keep away from heat and sources of ignition.

Avoid generating dust; fine dust dispersed in air in sufficient

concentrations, and in the presence of an ignition source is a potential

dust explosion hazard.

Avoid moisture. See also section 7

10.5. Incompatible materials

Incompatible materials : None known.

10.6. <u>Hazardous decomposition products</u>

Hazardous decomposition products : Burning produces noxious and toxic fumes. : COx, SOx, BaOx.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity : Not classified (Based on available data, the classification criteria are not met.)

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met.)

Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met.)

Respiratory/skin sensitisation : Not classified (Based on available data, the classification criteria are not met.)

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met.)

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met.)

Reproductive toxicity

Not classified (Based on available data, the classification criteria are not met.)

Specific target organ toxicity (single

exposure)

Not classified (Based on available data, the classification criteria are not met.)

Specific target organ toxicity (repeated

exposure)

: Not classified (Based on available data, the classification criteria are not met.)

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met.)

12. ECOLOGICAL INFORMATION

12.1. **Toxicity**

Ecotoxicity effects : Ecological injuries are not known or expected under normal use.

12.2. Persistence and degradability

Persistence and degradability : No data available

12.3. Bioaccumulative potential

Bioaccumulation : Low potential Partition coefficient: n-octanol/water : no data available

12.4. Mobility in soil

Mobility : Insoluble.

12.5. Results of PBT and vPvB assessment

PBT/vPvB : This substance is not considered to be very persistent nor very

bioaccumulating (vPvB).

This substance is not considered to be persistent, bioaccumulating nor toxic

(PBT).

12.6. Other adverse effects

Further information : No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues / unused products : Handle with care.

See also section 7 Handling and storage

Where possible recycling is preferred to disposal or incineration. Collect and dispose of waste product at an authorised disposal facility.

Dispose of in accordance with local regulations.

Contaminated packaging : Do not burn, or use a cutting torch on, the empty drum.

Dispose of in accordance with local regulations.

Additional ecological information : Do not flush into surface water or sanitary sewer system.

Waste codes / waste designations

according to EWC / AVV

: Waste codes should be assigned by the user, preferably in discussion with the

waste disposal authorities.

SECTION 14: Transport information

Not classified as dangerous in the meaning of transport regulations.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Restrictions on use : not applicable

This product contains an ingredient according to the candidate list of Annex

XIV of the REACH

Regulation1907/2006/EC. : none

Authorisations : not applicable

15.1.2. National regulations

not applicable

15.2. Chemical safety assessment

Chemical Safety Assessment : Not required

SECTION 16: Other information

Sources of key data used to compile : ECB.

	SAFETY DATA SHEET	Page : 8/ 9
	Revision nr : 1	
		Issuing date : 29/05/2012
	Bolan Bar	Supersedes :

the datasheet Abbreviations and acronyms Supplier msds.

ADN = Accord Européen relatif au Transport International des Marchandises

Dangereuses par voie de Navigation du Rhin

ADR = Accord européen relatif au transport international des marchandises

Dangereuses par Route

CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC

IATA = International Air Transport Association

IMDG = International Maritime Dangerous Goods Code LEL = Lower Explosive Limit/Lower Explosion Limit UEL = Upper Explosion Limit/Upper Explosive Limit

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals



SAFETY DATA SHEET	Page: 9/9 Revision nr: 1 Issuing date: 29/05/2012
Bolan Bar	Supersedes :

The contents and format of this SDS are in accordance with EEC Commission Directive 1999/45/EC, 67/548/EC, 1272/2008/EC and EEC Commission Regulation 1907/2006/EC (REACH) Annex II.

DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

