

SAFETY DATA SHEET

Tracer

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

1.1. Product identifier

Product name Tracer

Synonyms; trade names Bentonite, sodian; Bentonite, calcian; Montmorillonite; Sodium-activated bentonite.

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

Identified uses Emergency Roof Repair

1.3. Details of the supplier of the safety data sheet

Supplier Aztec Chemicals
Unit 16, University Way
Orion Park
Crewe
Cheshire
CW1 6NG
+ 44 (0) 1270 655500 (T)
+ 44 (0) 1270 655501 (F)
info@aztecchemicals.com

1.4. Emergency telephone number

Emergency telephone +44 (0)7831 300868

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards Not Classified

Health hazards Not Classified

Environmental hazards Not Classified

Human health Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.

2.2. Label elements

Hazard statements NC Not Classified

Precautionary statements P102 Keep out of reach of children.

Supplemental label information EUH210 Safety data sheet available on request.

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Smectite Group minerals	30-60%
CAS number: 1318-93-0	EC number: 215-288-0
Classification	
Not Classified	

Tracer

Quartz	10-30%
CAS number: 148-60-7	EC number: 238-878-4
Classification	
Not Classified	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Composition comments The product contains other constituents (e.g. feldspar, gypsum, kaolinite, opal CT) in small amount and these minor constituents are not relevant for classification and labelling.,Bentonite is a UVCB substance sub-type 4. The purity of the product is 100% w/w.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move affected person to fresh air at once. Get medical attention if any discomfort continues.
Ingestion	Rinse mouth thoroughly with water. Get medical attention if any discomfort continues.
Skin contact	Not relevant
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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

Eye contact	Dust in the eyes will cause irritation. 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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4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Use fire-extinguishing media suitable for the surrounding fire. The product is not flammable.

5.2. Special hazards arising from the substance or mixture

Specific hazards Not relevant. No unusual fire or explosion hazards noted.

5.3. Advice for firefighters

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of dust and contact with skin and eyes.

For non-emergency personnel In case of spills, beware of slippery floors and surfaces.

For emergency responders Keep unprotected persons away. Avoid contact with skin and eyes. Wear suitable protective clothing, gloves and eye/face protection. Ensure suitable respiratory protection is worn during removal of spillages in confined areas.

6.2. Environmental precautions

Environmental precautions Contain spillage with sand, earth or other suitable non-combustible material.

6.3. Methods and material for containment and cleaning up

Tracer

Methods for cleaning up Collect powder using special dust vacuum cleaner with particle filter or carefully sweep into suitable waste disposal containers and seal securely.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Use mechanical ventilation if there is a risk of handling causing formation of airborne dust. Avoid generation and spreading of dust. Prevent accumulation of dust. Provide adequate ventilation. If ventilation is inadequate, suitable respiratory protection must be worn.

Advice on general occupational hygiene Wash promptly with soap and water if skin becomes contaminated. Provide eyewash station and safety shower. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Keep container dry. Keep container tightly closed. Reduce airborne dust and prevent scattering by moistening with water. Avoid dust spreading.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

Smectite Group minerals

Long-term exposure limit (8-hour TWA): OSHA 5 mg/m³ 15 mg/m³ respirable dust, total vapour and particulates

Quartz

Long-term exposure limit (8-hour TWA): OSHA 0.05 mg/m³ respirable dust

OSHA = Occupational Safety and Health Administration.

8.2. Exposure controls

Appropriate engineering controls Provide adequate ventilation. Avoid inhalation of dust. In case of insufficient ventilation, wear suitable respiratory equipment. Observe any occupational exposure limits for the product or ingredients. Use mechanical ventilation if there is a risk of handling causing formation of airborne dust.

Personal protection When using do not smoke

Eye/face protection Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Contact lenses should not be worn when working with this chemical. Wear tight-fitting, chemical splash goggles or face shield. Provide eyewash station.

Hand protection Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. Barrier cream applied before work may make it easier to clean the skin after exposure, but does not prevent absorption through the skin.

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

Respiratory protection Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m³. If ventilation is inadequate, suitable respiratory protection must be worn.

Tracer

Environmental exposure controls Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Avoid release to the environment. Contain spillage with sand, earth or other suitable non-combustible material.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Granules. Powder.
Colour	Grey. Greenish.
Odour	No characteristic odour.
Odour threshold	Not applicable.
pH	pH (diluted solution): 9.0 - 10.5 (5% solids in water suspension)
Melting point	> 450°C
Initial boiling point and range	Not applicable.
Flash point	Not applicable.
Evaporation rate	Not applicable.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	The product is not flammable.
Vapour pressure	Not applicable.
Relative density	2.6
Bulk density	1 - 1.4
Solubility(ies)	< 0.9 mg/L @ 20°C
Partition coefficient	Not applicable. Substance is inorganic.
Auto-ignition temperature	>400°C
Decomposition Temperature	Not applicable.
Viscosity	Not applicable.
Oxidising properties	Does not meet the criteria for classification as oxidising.

9.2. Other information

Other information Not available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Inert, not reactive.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Under normal conditions of storage and use, no hazardous reactions will occur.

10.4. Conditions to avoid

Tracer

Conditions to avoid Minimise contact with air to avoid degradation. Take care as floors and other surfaces may become slippery.

10.5. Incompatible materials

Materials to avoid No specific material or group of materials is likely to react with the product to produce a hazardous situation. Avoid storing together with materials that may be affected by dust.

10.6. Hazardous decomposition products

Hazardous decomposition products No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects The product contains less than 1% w/w RCS (Respirable Crystalline Silica).

Acute toxicity - oral

Notes (oral LD₅₀) Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD₅₀) Not available.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Based on available data the classification criteria are not met.

Skin corrosion/irritation

Animal data Not irritating.

Serious eye damage/irritation

Serious eye damage/irritation Not irritating.

Respiratory sensitisation

Respiratory sensitisation Not available.

Germ cell mutagenicity

Genotoxicity - in vitro Ames test, Gene mutation: Negative.

Genotoxicity - in vivo Chromosome aberration: Negative.

Carcinogenicity

Carcinogenicity There is no evidence that the product can cause cancer.

Reproductive toxicity

Reproductive toxicity - fertility This substance has no evidence of toxicity to reproduction.

Reproductive toxicity - development This substance has no evidence of toxicity to reproduction.

Inhalation May cause respiratory system irritation.

Ingestion No harmful effects expected from quantities likely to be ingested by accident.

Skin contact Skin irritation should not occur when used as recommended.

Eye contact May cause temporary eye irritation.

SECTION 12: Ecological Information

Ecotoxicity The product is not expected to be hazardous to the environment.

Tracer

12.1. Toxicity

Acute toxicity - fish	LC ₅₀ , 96 hours: 16000 mg/l, <i>Onchorhynchus mykiss</i> (Rainbow trout) LC ₅₀ , 24 hours: 2800-3200 mg/l, <i>Lepomis macrochirus</i> (Bluegill)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 96 hours: 81.6 mg/l, Dungeness crab EC ₅₀ , 96 hours: 24.8 mg/l, Dock shrimp. EC ₅₀ , 48 hours: >100 mg/l, <i>Daphnia magna</i>
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: >100 mg/l, Freshwater algae
Acute toxicity - terrestrial	No effect was observed on the growth of beans (<i>Phaseolus vulgaris</i>) or corn (<i>Zea mays</i>) when bentonite was added at a concentration of 135g/1.6kg soil.

12.2. Persistence and degradability

Persistence and degradability Not relevant. Substance is inorganic.

12.3. Bioaccumulative potential

Partition coefficient Not applicable. Substance is inorganic.

12.4. Mobility in soil

Mobility Not considered mobile. The product has poor water-solubility.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Avoid dust spreading.

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID). Avoid dust spreading.

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

Tracer

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 Not applicable.

Annex II of MARPOL 73/78
and the IBC Code

SECTION 15: Regulatory information

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

National regulations	The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).
EU legislation	Commission Regulation (EU) No 453/2010 of 20 May 2010.
Guidance	Workplace Exposure Limits EH40. CHIP for everyone HSG228. Safety Data Sheets for Substances and Preparations. Approved Classification and Labelling Guide (Sixth edition) L131.

15.2. Chemical safety assessment

SECTION 16: Other information

Revision date	11/06/2015
Revision	1
SDS number	10658
SDS status	Approved.
Risk phrases in full	NC Not classified.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.