

## BENTONITE



when dispersed in water when it then has thixotropic properties. That is it acts like a liquid when agitated or stirred and like a solid when left at rest. As "mud" it is used as a lubricant when drilling or pipe

Bentonite is a type of clay that swells and gels

the sides of excavations during the construction of diaphragm walls, cut-off walls, or piles. Bentonite is delivered to site as a powder or as granules before being mixed with water. The mud or slurry is pumped to point of use, recovered during

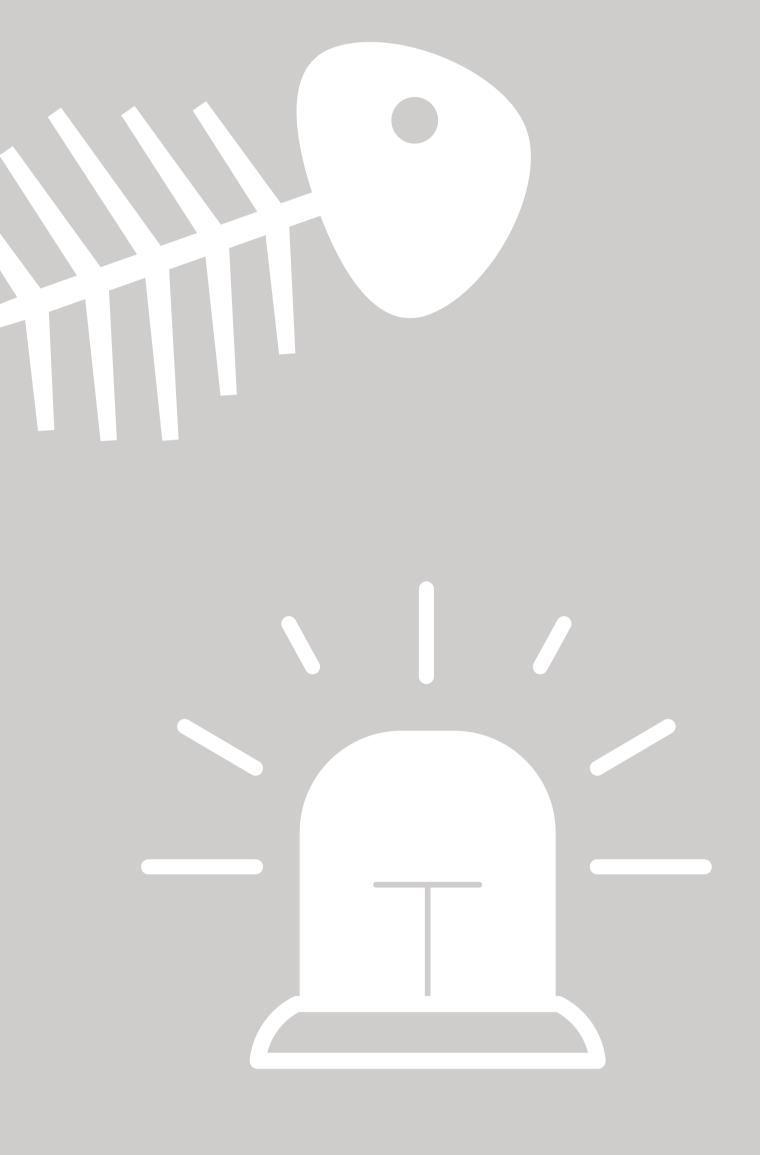
excavation or when displaced by concrete, pumped to

treatment tanks to remove contamination and then

pushing and as "slurry" it is used to fill and support

reused in the work. The use of bentonite can lead to spillage around operational areas and around mixing, pumping and storage equipment.







## Liquid bentonite is highly polluting and if it enters watercourses or drains can give rise to damage to plants and animals in watercourses.

**AVOID PROSECUTION:** If not correctly managed, bentonite in powder form can become airborne causing dust nuisance to local

residents leading to legal action by the Local Authority.

Pollution of watercourses by bentonite may lead to

prosecution by the Environment Agency or Scottish

The cost of clean up and legal proceedings far exceeds

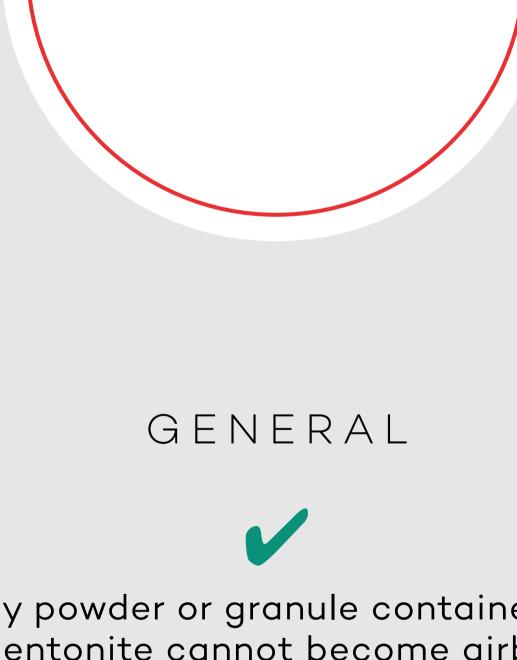
the cost of putting proper control measures in place.

Waste bentonite is very expensive to dispose of!

Environmental Protection Agency. COST:







Ensure that bentonite does not spill onto the ground. Ensure that if spillages do occur they are promptly cleared up.

Protect watercourses and drains from any spillage of

liquid bentonite.

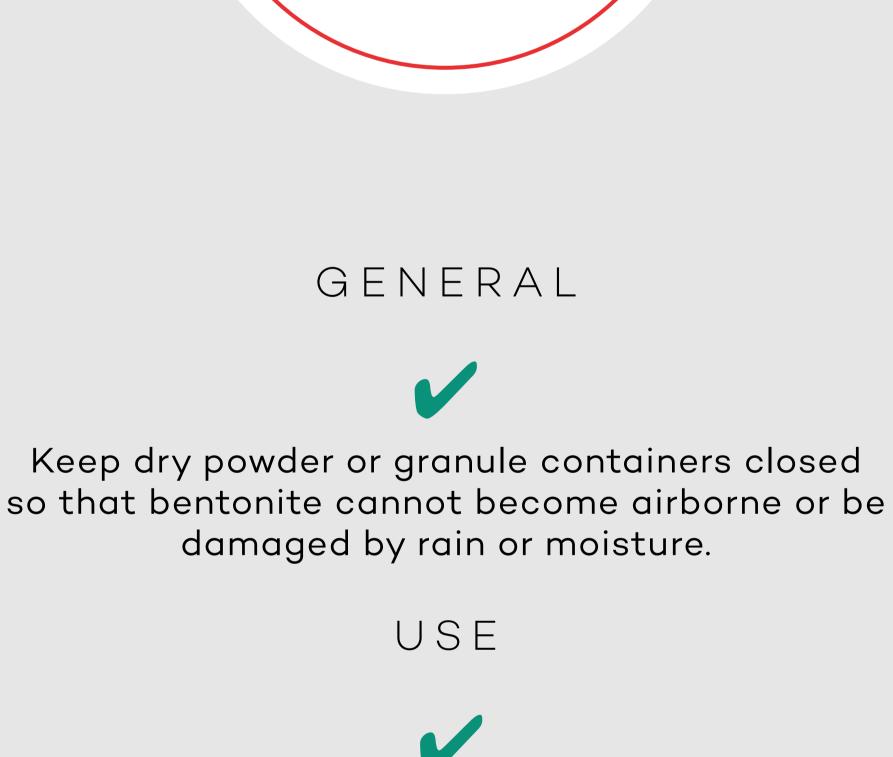
Report immediately to your manager any incidents where

bentonite is seen entering a watercourse or a drain, or is

becoming airborne. DISPOSAL



Ask your manager what to do with waste bentonite.







**DON'T** ignore spillages on the ground.

**DON'T** leave containers or bags containing bentonite open to the air.

**DON'T** intentionally allow liquid or powdered bentonite to spill onto the ground.

DISPOSAL

USE

**DON'T** pour bentonite into watercourses or drains.

