

SAFETY DATA SHEET – PREPARED CLAY BODIES

COMPOSITION/INFORMATION ON THE COMPONENTS

Prepared Clay Body is a mixture of natural Minerals and may contain ball clay, china clay, ground quartz, ground cristobalite and fluxes (naturally occurring feldspathic material or nepheline syenite). Small amounts of calcined alumina bearing minerals may also be added.

HAZARD IDENTIFICATION

Main Hazards – Prepared clay body contains free silica. If allowed to dry out dust containing respirable silica may be liberated. Danger of serious damage to health by prolonged exposure.

Health effects (Eyes) - Dust will cause transient irritation by abrasion.

Health Effects (Skin) - Dust may cause irritation by abrasion.

Health Effects (Ingestion) - Gastrointestinal irritation.

Health Effects (Inhalation) - Exposure to dust may have the following effects: severe irritation to nose, throat and respiratory tract and possibly lung damage. due to respirable Silica.

FIRST AID MEASURES

Eyes - Immediately flood the eye with plenty of water, for at least 10 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.

Skin - Wash skin thoroughly with soap and water. Obtain medical attention if blistering occurs or redness persists.

Ingestion - Wash out mouth with water. Do not induce vomiting. Obtain medical attention.

Inhalation - Remove from exposure, keep warm and rest. If there is difficulty in breathing, give oxygen. Obtain medical attention.

Advice to Physicians - Treat symptomatically.

FIRE FIGHTING MEASURES

Extinguishing Media

Not combustible. Select extinguishing agent appropriate to other materials involved.

Special Hazards of Products

Avoid the formation of dust clouds.

ACCIDENTAL RELEASE MEASURES

Spillages

Avoid creating a dust. Sweep, preferably vacuum up, and collect in suitable containers for recovery or disposal.

Handling and Storage

Store in sealed packaging. Avoid creating dust.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Standards - Contains crystalline silica: UK EH40 OES 0.4mg/m³ TWA. As SiO₂ dust, respirable.

Engineering Control Measures - Use of the basic principles of Industrial Hygiene will enable this material to be used safely.

Respiratory Protection - Dust respirator if conditions are dusty.

Hand Protection - Only required for those with sensitive skin.

Eye Protection - Provide eyewash.

Body Protection - Normal work wear. Overall or apron.

Protection During Application – In all cases of protective equipment the user must ensure that the equipment complies with the relevant standard. If there is any doubt the user should show this data sheet to the supplier of the equipment to ensure the correct equipment is available.

PHYSICAL AND CHEMICAL PROPERTIES

Physical State – Prepared clay body has a soft and pliable consistency and contains 18-20% water. It may also be sold as a granulate of much lower moisture content (5%) or as a water suspension also known as casting slip.

Colour – Normally brown, grey or white. Vegetable stain (green) may be introduced for identification purposes.

Odour – None.

Solubility in Water – Negligible.

Specific Gravity – 2.6

STABILITY AND REACTIVITY

Stable under normal conditions.

TOXICOLOGICAL INFORMATION

Irritancy (Eyes) – This material is an irritant to the eyes.

Irritancy (Skin) – The degree of irritation was insufficient to warrant labelling as a skin irritant.

ECOLOGICAL INFORMATION

Mobility – The product is involatile and insoluble and will accumulate in the ground.

Persistent/Degradability – This product is resistant to biodegradation.

Disposal – Prepared clay body can be disposed of as non toxic material in approved landfill sites in accordance with local regulation.

TRANSPORT INFORMATION

ADR/RID (Description) – Not classified for Conveyance Purposes.

REGULATORY INFORMATION

Labelling Information – Not classified.

OTHER INFORMATION

Uses and Restriction - Prepared clay body is used for the manufacture of Ceramics.

Additional Information – The product contains respirable silica in the form of quartz and in some cases cristobalites. Prolonged exposure to dust can give rise to fibrosis of the lungs commonly known as silicosis.

Third Party Materials – Insofar as material not manufactured or supplied by Valentine Clays are used in conjunction with, or instead of VC materials, it is the responsibility of the customer itself, to obtain from the manufacturer or supplier, all technical data and other properties relating to these and other materials and to obtain all necessary information relating to them. No liability can be accepted in respect of the use of VC materials in conjunction with other materials.

Liability – Such information is to the best of Valentine Clays knowledge and belief accurate and reliable. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy itself as to the suitability and completeness of such information for their own particular use.

NATIONAL LEGISLATION

UK Legislation

SI 1993/1746: Chemicals (Hazard Information and Packaging) Regulations 1993.

Environmental Protection (Duty of Care) Regulation 1992 SI 2839.

Carriage of Dangerous Goods by Road and Rail Regulation 1994.

Control of Pollution Act 1974.

Environmental Protection Act 1990.

Highly Flammable Liquids and Petroleum Spirit Regulations 1972.

EH 40 Occupational Exposure Limits

SI 1988/1657: The Control of Substances Hazardous to Health Regulations

Note: This is not an exhaustive list and users should satisfy themselves that they comply with all relevant National Regulations.