|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **SECTION 1: IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING** | | | | | | | | | | | | | | | | | |
| **1.1. Product identifier** | | | | | | | | | | | | | | | | | |
| Product name: | | | | | Portland Cement | | | | | | | | | | | | |
| Product identifier: | | | | | White Portland Cement, White Portland Limestone Cement,  White Blended Cement | | | | | | | | | | | | |
| **1.2 Relevant identified uses of the substance or mixture and uses advised against** | | | | | | | | | | | | | | | | | |
| Application: | | | | | Binder for natural and artificially processed aggregates, such as sand, gravel and pebbles, for production of mortar, plaster and concrete. | | | | | | | | | | | | |
| **1.3 Details of the supplier of the safety data sheet** | | | | | | | | | | | | | | | | | |
| Supplier: | | | | | JIANGXI YINSHAN WHITE CEMENT CO.,LTD  Zhenxing Avenue,Industrial park,Anfu county  343200, Jiangxi Province, China  Tel: 0796-7636266  Fax: 0796-7635777  ysbsn123@163.com  www.yswhitecement.com | | | | | | | | | | | | |
| Responsible for safety data sheet authoring: | | | | | ysbsn123@163.com | | | | | | | | | | | | |
| **1.4 Emergency telephone number** | | | | | | | | | | | | | | | | | |
| Tel. No.: | | | | 0796-7636266 | | | | | | | | | | | | | |
| **SECTION 2: HAZARDS IDENTIFICATION** | | | | | | | | | | | | | | | | | |
| **2.1 Classification of the substance or mixture** | | | | | | | | | | | | | | | | | |
| The product is classified: | | | | | | | | | | | | | | | | | |
| GHS: | | | | | Eye Dam. 1;H318 – Skin Irrit. 2;H315 – STOT SE 3;H335 -May cause skin allergy4：H317 | | | | | | | | | | | | |
| Human health: | | | | | Dust may irritate throat and respiratory system and cause coughing, sometimes allergic skin reaction.  Frequent inhalation of dust over a long period of time increase the risk of developing lung diseases. Dust or splashes from the mixture may cause permanent eye damage. Dust has an irritating effect on moist skin.  Prolonged contact with wet cement/mixture may cause burns. | | | | | | | | | | | | |
| Environment: | | | | | Theproductisnotexpectedtobehazardoustotheenvironment, except for causing some dust nearby. | | | | | | | | | | | | |
| **2.2 Label elements** | | | | | | | | | | | | | | | | | |
| DANGER | | | | | | | | | | | | | | | | | |
| H315 | | | | | Causes skin irritation. | | | | | | | | | | | | |
| H317 | | | | | May cause skin allergy | | | | | | | | | | | | |
| H318 | | | | | Causes serious eye damage. | | | | | | | | | | | | |
| H335 | | | | | May cause respiratory irritation. | | | | | | | | | | | | |
| P260 | | | | | Do not breathe dust. | | | | | | | | | | | | |
| P280 | | | | | Wear protective gloves, eye and face protection. | | | | | | | | | | | | |
| P305/351/338 | | | | | IF IN EYES: Rinse cautiously with water for several minutes.  Remove contact lenses, if present and easy to do.  Continue rinsing. | | | | | | | | | | | | |
| P313 | | | | | Get medical advice/attention. | | | | | | | | | | | | |
| P501 | | | | | Dispose of contents/container in accordance with local regulations  Contains: Calcium oxide. When mixed with water it will form calcium hydroxide which has a corrosive effect on skin and eyes. | | | | | | | | | | | | |
| **2.3 Other hazards** | | | | | | | | | | | | | | | | | |
| Other hazards | | | | Not relevant. | | | | | | | | | | | | | |
| **SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS** | | | | | | | | | | | | | | | | | |
| **3.1 Mixtures** | | | | | | | | | | | | | | | | | |
| The product contains: Portland cement  Cement clinker main content are as below:  3CaO.SiO2 Tricalcium silicate 60-70% CAS#12168-85-3  2CaO.SiO2 Dicalcium silicate 15-25% CAS#10034-77-2  3CaO.Al2O3 Tricalcium aluminate 5-15% CAS#12042-78-3  4CaO.Al2O3.Fe2O3 Tetracalcium aluminoferrite 0.3-0.4% CAS#12068-35-8  The product is mixture of suitable fineness white cement clinker, small amount of gypsum and limestone. Proportion of these materials:  P.W52.5grade cement：Clinker 85-90%，Gypsum：4.0-5.0%，Limestone：5-10%;  P.W42.5grade cement：Clinker 70-84%，Gypsum：4.0-5.0%，Limestone：11-25%;  P.W32.5grade cement：Clinker 60-69%，Gypsum：4.0-5.0%，Limestone：26-35%.  Note：Gypsum composition：CaSO4.2H2O CAS#7778-18-9(CAS#13397-24-5)  Limestone composition：CaCO3 CAS#1317-65-3 | | | | | | | | | | | | | | | | | |
| GHS: | | | | | | | | | | | | | | | | | |
| %: | CAS-No.: | | EC No.: | | | | | | | REACH Reg. No.: | | Chemical name: | | Hazard classification: | | | Notes: |
| 60-100 | 65997-15-1 | | 266-043-4 | | | | | | | - | | Portland Cement | | May cause skin allergy4：H317  STOT SE 3;H335  Skin Irrit. 2;H315  Eye Dam. 1;H318 | | |  |
| **SECTION 4: FIRST AID MEASURES** | | | | | | | | | | | | | | | | | |
| **4.1 Description of first aid measures** | | | | | | | | | | | | | | | | | |
| Inhalation: | | | | | Move injured person into fresh air and keep person calm under observation. If uncomfortable: Seek hospital and bring these instructions. | | | | | | | | | | | | |
| Skin contact: | | | | | Remove contaminated clothing immediately and wash skin with soap and water. In case of rashes, wounds or other skin disorders: Seek medical attention and bring along these instructions. | | | | | | | | | | | | |
| Eye contact: | | | | | Do not rub eye. Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Continue flushing during transport to hospital. Bring these instructions. | | | | | | | | | | | | |
| Ingestion: | | | | | Immediately rinse mouth and drink plenty of water or milk. Keep person under observation. Do not induce vomiting. If vomiting occurs, keep head low. Transport immediately to hospital and bring along these instructions. | | | | | | | | | | | | |
| **4.2 Most important symptoms and effects, both acute and delayed** | | | | | | | | | | | | | | | | | |
| Symptoms/effects: | | | | | See section 11 for more detailed information on health effects and symptoms. | | | | | | | | | | | | |
| **4.3 Indication of any immediate medical attention and special treatment needed** | | | | | | | | | | | | | | | | | |
| Medical attention/treatments: | | | | | Not known. | | | | | | | | | | | | |
| **SECTION 5: FIREFIGHTING MEASURES** | | | | | | | | | | | | | | | | | |
| **5.1 Extinguishing media** | | | | | | | | | | | | | | | | | |
| Extinguishing media: | | | | | Use fire-extinguishing media appropriate for surrounding materials. | | | | | | | | | | | | |
| **5.2 Special hazards arising from the substance or mixture** | | | | | | | | | | | | | | | | | |
| Specific hazards: | | | | | Water used for fire extinguishing, which has been in contact with the product, may be corrosive. | | | | | | | | | | | | |
| **5.3 Advice for firefighters** | | | | | | | | | | | | | | | | | |
| Protective equipment for fire fighters: | | | | | Selection of respiratory protection for fire-fighting: follow the general fire precautions indicated in the workplace.  In case of contact with water used for fire extinguishing, use chemical resistant protective suit. | | | | | | | | | | | | |
| **SECTION 6: ACCIDENTAL RELEASE MEASURES** | | | | | | | | | | | | | | | | | |
| **6.1 Personal precautions, protective equipment and emergency procedures** | | | | | | | | | | | | | | | | | |
| Personal precautions: | | | | | Avoid inhalation of dust. Avoid contact with eyes and prolonged skin contact. Use work methods which minimize dust production. | | | | | | | | | | | | |
| **6.2 Environmental precautions** | | | | | | | | | | | | | | | | | |
| Environmental precautions: | | | | | The product should not be dumped in nature but collected and delivered according to agreement with the local authorities. | | | | | | | | | | | | |
| **6.3 Methods and material for containment and cleaning up** | | | | | | | | | | | | | | | | | |
| Methods for cleaning up: | | | | | Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like. | | | | | | | | | | | | |
| **SECTION 7: HANDLING AND STORAGE** | | | | | | | | | | | | | | | | | |
| **7.1 Precautions for safe handling** | | | | | | | | | | | | | | | | | |
| Safe handling advice: | | | | | Observe good chemical hygiene practices. Avoid spreading dust. Avoid inhalation of dust. Avoid contact with eyes and prolonged skin contact. Change contaminated clothing. | | | | | | | | | | | | |
| Technical measures: | | | | | Use work methods which minimize dust production. | | | | | | | | | | | | |
| Technical precautions: | | | | | Mechanical ventilation may be required. Provide easy access to water supply and eye wash facilities. | | | | | | | | | | | | |
| **7.2. Conditions for safe storage, including any incompatibilities** | | | | | | | | | | | | | | | | | |
| Technical measures for safe storage: | | | | | No special precautions. | | | | | | | | | | | | |
| Storage conditions: | | | | | Store in closed original container in a dry place. Seal opened containers and use up as soon as possible. When stored in humid conditions, the chromate neutralization will decrease. | | | | | | | | | | | | |
| **7.3. Specific end use(s)** | | | | | | | | | | | | | | | | | |
| Specific use(s): | | | | | Not relevant. | | | | | | | | | | | | |
| **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION** | | | | | | | | | | | | | | | | | |
| **8.1. Control parameters** | | | | | | | | | | | | | | | | | |
| Occupational exposure limits: | | | | | | | | | | | | | | | | | |
| CAS-No.: | | Chemical name: | | | | | | | | | Exposure limits: | | Type: | | Notes: | References: | | |
| 65997-15-1 | | Portland cement, respirable dust | | | | | | | | | 3 mg/m3 | | TWA | | - | USECHH 2000 | |
| 65997-15-1 | | Portland cement, inhalable dust | | | | | | | | | 10 mg/m3 | | TWA | | - | USECHH 2000 | |
| **8.2. Exposure controls** | | | | | | | | | | | | | | | | | |
| Engineering measures: | | | | | Provide adequate ventilation. Observe occupational exposure limits and | | | | | | | | | | | | |
| minimise the risk of inhalation of dust. | | | | | | | | | | | | | | | | | |
| Personal protection: | | | | | Personal protection equipment should be chosen in discussion with the supplier of the personal protective equipment. | | | | | | | | | | | | |
| Respiratory equipment: | | | | | During dust-raising work: Use respiratory equipment with particle filter. | | | | | | | | | | | | |
| Hand protection: | | | | | Wear protective gloves. Nitrile gloves are recommended. Other types of gloves can be recommended by the glove supplier. | | | | | | | | | | | | |
| Eye protection: | | | | | Wear goggles/face shield. | | | | | | | | | | | | |
| Skin protection: | | | | | Wear special protective clothing. Hood or helmet shall be used in connection with splashing work. | | | | | | | | | | | | |
| Hygiene measures: | | | | | Remove contaminated clothing and wash the skin thoroughly with soap and water after work. | | | | | | | | | | | | |
| Environmental Exposure  Controls: | | | | | Not available. | | | | | | | | | | | | |
| **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES** | | | | | | | | | | | | | | | | | |
| **9.1. Information on basic physical and chemical properties** | | | | | | | | | | | | | | | | | |
| Appearance: | | | | | | Cement white | | | | | | | | | | | |
| Odour: | | | | | | Odourless. | | | | | | | | | | | |
| pH: | | | | | | Ready-to-use mixture: approx. 13 | | | | | | | | | | | |
| Boiling point: | | | | | | Not relevant. | | | | | | | | | | | |
| Flash point: | | | | | | Not relevant. | | | | | | | | | | | |
| Explosion limits: | | | | | | Not relevant. | | | | | | | | | | | |
| Relative density: | | | | | | Not available. | | | | | | | | | | | |
| Solubility: | | | | | | Miscible with water. | | | | | | | | | | | |
| **9.2. Other information** | | | | | | | | | | | | | | | | | |
| Other data: | | | | | | Not relevant. | | | | | | | | | | | |
| **SECTION 10: STABILITY AND REACTIVITY** | | | | | | | | | | | | | | | | | |
| **10.1. Reactivity** | | | | | | | | | | | | | | | | | |
| Reactivity: | | | | | | None known. | | | | | | | | | | | |
| **10.2. Chemical stability** | | | | | | | | | | | | | | | | | |
| Stability: | | | | | | Stable under normal temperature conditions. Keep dry before using. | | | | | | | | | | | |
| **10.3. Possibility of hazardous reactions** | | | | | | | | | | | | | | | | | |
| Hazardous Reactions: | | | | | | The product will react with water and produce substance corrosive to skin. | | | | | | | | | | | |
| **10.4. Conditions to avoid** | | | | | | | | | | | | | | | | | |
| Conditions/materials to avoid: | | | | | | The product will react with water and producecalcium hydroxide (corrosive) in contact with water and moisture. | | | | | | | | | | | |
| **10.5. Incompatible materials** | | | | | | | | | | | | | | | | | |
| Incompatible materials: | | | | | | Wet Portland cement is alkaline, which is incompatible with acid, ammonium salts and aluminum metal. | | | | | | | | | | | |
| **10.6. Hazardous decomposition products** | | | | | | | | | | | | | | | | | |
| Hazardous decomposition products: | | | | | | None in particular. | | | | | | | | | | | |
| **SECTION 11: TOXICOLOGICAL INFORMATION** | | | | | | | | | | | | | | | | | |
| **11.1. Information on toxicological effects** | | | | | | | | | | | | | | | | | |
| Inhalation: | | | | | | Dust may irritate throat and respiratory system and cause coughing. | | | | | | | | | | | |
| Skin contact: | | | | | | Dust has an irritating effect on moist skin. Repeated or prolonged contact with skin may cause allergic reactions in sensitive individuals. | | | | | | | | | | | |
| Eye contact: | | | | | | Dust or splashes from the mixture may cause permanent eye damage. Immediate first aid is necessary. | | | | | | | | | | | |
| Ingestion: | | | | | | Not likely, due to the form of the product. Ingestion may cause severe irritation of the mouth, the esophagus and the gastrointestinal tract. | | | | | | | | | | | |
| Specific effects: | | | | | | Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases. | | | | | | | | | | | |
| **SECTION 12: ECOLOGICAL INFORMATION** | | | | | | | | | | | | | | | | | |
| **12.1. Toxicity** | | | | | | | | | | | | | | | | | |
| Ecotoxicity: | | | | | | | Theproductisnotexpectedtobehazardoustotheenvironment, except for causing some dust nearby. | | | | | | | | | | |
| **12.2. Persistence and degradability** | | | | | | | | | | | | | | | | | |
| Degradability: | | | | | | | The product is an inorganic substance, not relevant to degradability | | | | | | | | | | |
| **12.3. Bioaccumulative potential** | | | | | | | | | | | | | | | | | |
| Bioaccumulative potential: | | | | | | | No data available on bioaccumulation. | | | | | | | | | | |
| **12.4. Mobility in soil** | | | | | | | | | | | | | | | | | |
| Mobility: | | | | | | | The product will harden into a mass of concrete, basically no mobility in soil. | | | | | | | | | | |
| **12.5. Other adverse effects** | | | | | | | | | | | | | | | | | |
| Other adverse effects: | | | | | | | None known. | | | | | | | | | | |
| **SECTION 13: DISPOSAL CONSIDERATIONS** | | | | | | | | | | | | | | | | | |
| **13.1. Waste treatment methods** | | | | | | | | | | | | | | | | | |
| Dispose of waste and residues in accordance with local authority requirements. Waste is classified as hazardous waste. Note that fully cured material is not considered as hazardous waste. | | | | | | | | | | | | | | | | | |
| **SECTION 14: TRANSPORT INFORMATION** | | | | | | | | | | | | | | | | | |
| The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID). | | | | | | | | | | | | | | | | | |
| **14.1. UN number** | | | | | | | | | | | | | | | | | |
| UN-No: | | | | - | | | | | | | | | | | | | |
| **14.2. UN proper shipping name** | | | | | | | | | | | | | | | | | |
| Proper Shipping Name: | | | | | | | - | | | | | | | | | | |
| **14.3. Transport hazard class(es)** | | | | | | | | | | | | | | | | | |
| Class: | | | | - | | | | | | | | | | | | | |
| **14.4. Packing group** | | | | | | | | | | | | | | | | | |
| PG: | | | | - | | | | | | | | | | | | | |
| **14.5. Environmental hazards** | | | | | | | | | | | | | | | | | |
| Marine pollutant: | | | | - | | | | | | | | | | | | | |
| Environmentally Hazardous substance: | | | | - | | | | | | | | | | | | | |
| **14.6. Special precautions for user** | | | | | | | | | | | | | | | | | |
| Special precautions: | | | | None known. | | | | | | | | | | | | | |
| **14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** | | | | | | | | | | | | | | | | | |
| Transport in bulk: | | | | Not relevant. | | | | | | | | | | | | | |
| **SECTION 15: REGULATORY INFORMATION** | | | | | | | | | | | | | | | | | |
| **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture** | | | | | | | | | | | | | | | | | |
| Special provisions: | | | | | | | | As a general rule, persons under 18 years of age are not allowed to work with this product. Users must be carefully instructed in the proper work procedure, the dangerous properties of the product and the necessary safety instructions. | | | | | | | | | |
| **15.2. Chemical Safety Assessment** | | | | | | | | | | | | | | | | | |
| CSA status: | | | | | | | | | Not relevant | | | | | | | | |
|  | | | | | | | | | | | | | | | | | |
| **SECTION 16: OTHER INFORMATION** | | | | | | | | | | | | | | | | | |
| The user must be instructed in the proper work procedure and be familiar with the contents of these instructions.  The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user. | | | | | | | | | | | | | | | | | |