

## Material Safety Data Sheet (MSDS)

### 1 Identification of the substance and of the company

- .Product name: GOLD LIXIVANT
- .Product code: SD-0103
- .Manufacturer/Supplier: Shanghai Sandioss New Material Co.,Ltd
- .Address: No.155 XinSheng Road, Qingpu Districe Shanghai
- .Tel: +86-136 8186 5410
- .Fax: +86-21-69768895
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- .Further information obtainable from: Shanghai Sandioss New Material Co.,Ltd
- .Emergency Telephone Number: +86-136 8186 5410
- .Contact: Wei Hong

### 2 Hazards identification

- .NFPA ratings (scale 0 - 4)



Health = 1; Fire = 0; Reactivity = 0

- .Classification of the substance or mixture
- .Classification according to GHS: Not classified as dangerous goods.
- .Classification according to Regulation (EC) No 1272/2008: The product is not classified according to the CLP regulation.
- .Classification according to Regulation 29 CFR 1910.1200:

The product is not classified according to OSHA Hazard Communication Standard (29 CFR 1910.1200).

- .Labelling according to CLP and GHS: Not applicable.

- .Hazard pictograms: Not applicable.

- .Signal word: Not applicable.

- .Potential Health Effects:

.Inhalation: Short term exposure to high dust levels could cause minor irritation. Long term exposure to high concentrations of dust should be avoided, dust of this products can cause severe and permanent lung damage when inhaled.

.Eyes: May cause slight eye irritation inflammation. Direct contact should be avoided to prevent physical damage.

.Skin: No known acute effects of this product resulting from skin contact, but it will irritant the damaged skin and cause inflammation, in light of good industrial hygiene, exposure to any chemical should be kept to a minimum.

.Swallowed: The product is expected a harmful can not to Ingestion. Ingestion will irritation the mouth and digestive tract, after ingestion will have vomiting, fever, abdominal pain, loss of appetite.

.CARCINOGENIC EFFECTS: This material is not a known carcinogen. Classified NONE by NTP, NONE by OSHA, 3 (Not classifiable for humans) by IARC.

**.MUTAGENIC EFFECTS:** Not available.

**.TERATOGENIC EFFECTS:** Not available.

### 3 Composition/information on ingredients

**.Description:** Mixture of substances listed below with additions.

| Components Name                                   | CAS Number | Approximate(%)by Wt. |
|---|------------|----------------------|
| Sodium Oxide (Na <sub>2</sub> O)                  | 1313-59-3  | 30%                  |
| Nitrogen (N)                                      | 7727-37-9  | 20%                  |
| Ammonium (NH <sub>4</sub> )                       | 14798-03-9 | 20%                  |
| Calcium oxide (CaO)                               | 1305-78-8  | 20%                  |
| Iron(III) oxide (Fe <sub>2</sub> O <sub>3</sub> ) | 1309-37-1  | 10%                  |

### 4 First aid measures

**Generally not hazardous in normal handling, however good laboratory practices should always be used. Avoid long term exposure to skin and eye or by inhalation.**

**.Inhalation:** Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

**.Eye:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

**.Skin:** Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid. If irritation develops or persists.

**.Ingestion:** If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

### 5 Fire-fighting measures

**.General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Non-combustible, substance itself does not burn.

**.Flammable class:** 0

**.Suitable extinguishing media:** Water, CO<sub>2</sub>, Dry Chemicals, Foam-Fog

**.Fire/Explosion Hazards:** Negligible fire hazard when exposed to heat or flame.

**.Other information:** Wear self-contained breathing apparatus and complete personal protective equipment when potential for exposure to products of combustion exists.

### 6 Accidental release measures

**.Small Spill:** Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

**.Large Spill:** Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow evacuating through the sanitary system. Be careful that the product is not present at a concentration level above TLV.

## 7 Handling and storage

**The regulations relating to storage remises apply to workshop where the product is handled :**

- .Handling:** Removal of mobile products need to wear protective gloves when products for the brittle materials, handled with care when handling apply good manufacturing practice & industrial hygiene practices. Observe good personal hygiene, and do not eat, drink or smoke whilst handling. Wear protective goggles and gloves when handling material. Clean cloths, must be worn. Observe all warnings and precautions listed for the product.
- .Storage:** Store in a cool & dry area away from heat sources & protected from light. stored in relatively stable areas, to avoid collision occurred on a hard object Avoid dust formation and control ignition sources. Keep air contact to a minimum.
- .Further information about storage condition:** None.

## 8 Exposure controls/personal protection

- .Engineering Controls:** Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
- .Personal Protection:** Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.
- .Protective Gloves:** Protective Gloves
- .Eye Protection:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard.
- .Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
- .Health measures:** Local exhaust ventilations may be necessary for some operation

## 9 Physical and chemical properties

| <b>.General Information</b>            |                              |
|--|------------------------------|
| <b>.Form:</b>                          | Solid Powder                 |
| <b>.Color:</b>                         | White grey                   |
| <b>.Odor:</b>                          | Slightly odor                |
| <b>.Change in condition</b>            |                              |
| <b>.Melting point/Melting range:</b>   | Not available                |
| <b>.Boiling point/Boiling range:</b>   | Not available                |
| <b>.Self-igniting:</b>                 | Product is not self-igniting |
| <b>.Danger of explosion:</b>           | Not available                |
| <b>.Density:</b>                       |                              |
| <b>.Relative density:</b>              | >1 (Water=1)                 |
| <b>.Vapor density:</b>                 | Not available                |
| <b>.Solubility in/Miscibility with</b> |                              |
| <b>.Water:</b>                         | Soluble                      |
| <b>.PH-Value:</b>                      | Not available                |

## 10 Stability and reactivity

- .Chemical Stability:** Stable under normal temperatures and pressures.
- .Decomposition Products:** The following combustion products may be generated: Metal oxide and water.
- .Materials with which substance is incompatible:** Products can chemical reactions halides, strong oxidizers, strong acids.
- .Hazardous Polymerizations:** Will not occur.
- .Special Remarks on Reactivity:** Not available.
- .Special Remarks on Corrosively:** Not available.

## 11 Toxicological information

- .Toxicity to Animals:**
  - LD50: Not available.
  - LC50: Not available.
- .Other Toxic Effects on Humans:** Not available.
- .Special Remarks on Chronic Effects on Humans:** Not available.
- .Special Remarks on other Toxic Effects on Humans:** Not available.

## 12 Ecological information

- .Ecotoxicity:** Not available.
- .Products of Biodegradation:** None hazardous short term degradation products are not likely.
- .Water Danger/Protection:** Water hazard class 0 (German Regulation) (Self-assessment): No hazardous for water.

## 13 Disposal considerations

- .Product:** Must be disposed of in accordance with applicable Federal, state and local regulations.
- .Recommendation:** Must not be dispose together with household garbage.
- .Uncleaned packaging:** Recommendation Disposal must be made according to official regulations.

## 14 Transport information

- .UN Proper Shipping Name:** N.O.S
- .UN Number:** Not applicable.
- .Packing Group:** Not applicable.
- .Marine Pollutant:** Not available.
- .Hazardous Substance Reportable Quantity:** Not available.
- .Special Provisions for Transport:** Not applicable.
- .DOT Classification for Bulk Shipments:** Not a DOT controlled material (United States).
- .TDG Classification:** Not controlled under TDG (Canada).
- .ADR/RID Classification:** Not controlled under ADR( Europe)
- .IMO/IMDG Classification:** Not Controlled under IMDG.
- .ICAO/IATA Classification:** Not controlled under IATA.

## 15 Regulatory information

**TSCA:** Some components are listed.

**Health & Safety Reporting List:** None of the chemicals are on the Health & Safety Reporting List.

**CERCLA Hazardous Substances and corresponding RQs:** None of the chemicals in this material have an RQ.

**WHMIS:** Not controlled under WHMIS

**DSCL:** Not controlled under DSCL

**OSHA:** None of the chemicals in this product are considered highly hazardous by OSHA.

**California Prop 65-California No Significant Risk Level:** None of the chemicals in this product are listed.

**REACH Regulation List of Substances of very high concern (SVHC):**None of the ingredients is listed.

**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other information

**The contents and format of this MSDS are in accordance with ISO Commission Directive ISO11014-2009.**

### DISCLAIMER OF LIABILITY

**The information in this MSDS 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 MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.**

### • Abbreviations and acronyms:

**ADR:** Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road).

**RID:** Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail).

**IMDG:** International Maritime Code for Dangerous Goods.

**IATA:** International Air Transport Association.

**ICAO:** International Civil Aviation Organization.

**TDG:** Transportation of Dangerous Goods Program of Canada.

**DOT:** U.S. Department of Transportation.

**GHS:** Globally Harmonized System of Classification and Labelling of Chemicals.

**CAS:** Chemical Abstracts Service (division of the American Chemical Society).

**ACGIH:** American Conference of Governmental Industrial Hygienists.

**NFPA:** National Fire Protection Association.

**TSCA:** Toxic Substances Control Act.

**LC50:** Lethal concentration, 50 percent.

**LD50:** Lethal dose, 50 percent.

**PBT:** Persistent, Bioaccumulative and Toxic.

**vPvB:** very Persistent and very Bioaccumulative.

\*\*\*\*\*The End\*\*\*\*\*