

AA00242-3050649015	<b>MATERIAL SAFETY DATA SHEET</b>	Date of Issue	2006-02-28
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### 1. CHEMICAL PRODUCT INFORMATION

Product Name	Homestar jesso	Color	
Application	used for the primer wood, steel, concrete, mortar, cement 8. Coatings and paints, thinners, paints removers 8.2 Water paint		
Manufacture	SAMHWA PAINTS IND.CO.,LTD.	Telephone NO.	82-31- 499 - 0394
Address	178, Byeolmang-ro, Danwon-gu, Ansan-si, Gyeonggi-do, Korea	Department	

### 2. HAZARDS IDENTIFICATION

1. Classification of the substance  
① No Classification
2. GHS warning label elements, including precautionary statements
- ① Symbol : Not Applicable
- ② Signal word : No Data

### 3. CHEMICAL COMPOSITION

Chemical Name	CAS NO.	Portion(%)	Remarks
Water	7732-18-5	More than 40 ~ Under 50 %	
Talc	14807-96-6	More than 20 ~ Under 30 %	
Titanium dioxide	13463-67-7	More than 1 ~ Under 10 %	
2-Methyl-2-propenoic acid methyl ester polymer with 2-ethylhexyl 2-propenoate	25265-15-0	More than 1 ~ Under 10 %	
Kaolin, calcined	92704-41-1	More than 1 ~ Under 10 %	
2-(Acetyloxy)-1,2,3-propanetricarboxylic acid tributyl ester	77-90-7	More than 1 ~ Under 10 %	
Sodium nitrite	7632-00-0	More than 0.1 ~ Under 1 %	

### 4. HEALTH HAZARD INFORMATION

1. Eye contact  
Wash off immediately with plenty of water, also under the eyelids, for at least 20 minutes.  
Call a physician immediately.
2. Skin contact  
Remove the contaminated clothes and the skin will be washed with water and soap.  
Do not use solvents.

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#### 4. HEALTH HAZARD INFORMATION

3. Inhalation  
Move to fresh air and if he/she not breathes perform artificial respiration.  
Consult a physician if necessary.
4. Ingestion  
Do not induce vomiting unless it is indicated by medical personnel.  
Never give anything by oral tract to an unconscious. Get medical attention if symptoms appear.
5. Note to physician  
Very small quantities of the product reached in lungs may be fatale. Ingestion of the product may cause chemical irritation that may diffuse to lungs and cause edema. Check carefully the victim and apply intubations in all ingestion cases for all important amounts.

#### 5. FIRE FIGHTING MEASURES

1. Flash point : No Data/Not applicable
2. Ignition temp : Not determined
3. Upper expolusion limit / Lower explosion limit : Not determined
4. The Fire Service Act : Not applicable
5. Fire extinguisher : CO2, Powder, Halogen Fire extinguisher and Sand etc.
6. Fire and explosion Method of extinguishing and equipment:  
Wear suitable protective equipment Use product with caution around heat, sparks, pilot lights, static electricity, and open flame.  
Due to vapor is heavier than air, keep the distance from the ignition source pour into the fresh air.  
Remove promptly flammable material. Put out a fire at once with prepared fire extinguisher.
7. Hazardous materials in combustion:  
Could be generated complexed mixture like solid and gas containing CO, SO2 etc.  
Unidentified organic and inorganic compound.
8. Extinguishing method which must not used for safety : Not applicable

#### 6. ACCIDENTAL RELEASE MEASURES

1. Personal precautions  
Evacuate useless personnel, isolate the heat and flame sources, ventilate and wet the area if is possible.  
All personnel must be protected against vapours inhalation and against skin and eyes contact.
2. Methods for cleaning up  
Absorb with dry earth, sand or other non-combustible material and precede according decontamination regulation.  
Recovered product will be stored in metallic drums with removable lid or metallic containers, which will be sent to incineration.
3. Environmental precautions  
Do not let the product to reach water, drain and earth. Prevent the extending in soil.  
Prevent entry into sewers, basements or confined areas; dike if needed

#### 7. HANDLING AND STORAGE

1. Handling  
Wear protective gear before handling.  
Avoid contact with skin or eyes.  
Avoid breathing vapor or dust.  
Use only up well-ventilated areas.  
Take precautionary measures against static charges, fire, sources, heat generation and spark.  
Becareful physical shock and pressure.

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## 7. HANDLING AND STORAGE

### 2. Storage

The product must be kept in original container tightly closed.  
 Store between 5~35°C in dry, In the case of electronic materials store below 5°C in dry.  
 Well-ventilated place away from source of heat, ignition and direct sunlight.  
 Vapors may form explosive mixtures.  
 Adhere to work practice rules established by government regulations.

### 3. Other precautions

Emergency showers and eye wash stations should be readily accessible.  
 Adhere to work practice rules established by government regulations

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 1. Exposure limit values

Chemical Name	Cas No	Interior provision	ACGHI
Water	7732-18-5	No data	No data
Talc	14807-96-6	TWA : 3 mg/m <sup>3</sup>	TWA : 3 mg/m <sup>3</sup> Talc(respirable dust)
Titanium dioxide	13463-67-7	TWA : 10 mg/m <sup>3</sup>	TWA 10 mg/m <sup>3</sup>
2-Methyl-2-propenoic acid methyl ester polymer with 2-ethylhexyl 2-propenoate	25265-15-0	No data	No data
Kaolin, calcined	92704-41-1	No data	No data
2-(Acetyloxy)-1,2,3-propanetricarboxylic acid tributyl ester	77-90-7	No data	No data
Sodium nitrite	7632-00-0	No data	No data

### 2. Environmental exposure control

Technical conditions regarding atmosphere protection. Determination of pollutants emission produced by stationary sources rules.

### 3. Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment

### 4. Eye protection: Wear eye/face protection such as chemical goggles or face shield

### 5. Hand protection: For prolonged or repeated contact use solvent protective gloves. Barrier reams may help to protect the exposed areas of hand. However they should not be applied once exposure has occurred. Hand should be washed after contact

### 6. Skin protection: Personnel should wear protective clothing and antistatic footwear.

### 7. Additional: Before eating, drinking, or smoking, wash face and hands thoroughly with soap and water

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

- |   |                                     |
|---|-------------------------------------|
| 1. Appearance : colored and opaque liquid | 8. Oxidising properties : No data   |
| 2. Odor : light ammonium odor             | 9. Vapor pressure : No data         |
| 3. pH : Not applicable                    | 10. Specific gravity : 1.37         |
| 4. Solubility : Water-soluble             | 11. Partition coefficient : No data |
| 5. Boiling point : No data                | 12. Vapor density : No data         |
| 6. Melting point : No data                | 13. Viscosity(25°C) : 104 KU        |
| 7. Explosive properties : No data         | 14. Molecular weight : No data      |

### 10. STABILITY AND REACTIVITY

1. Chemical stability  
The product is stable if is kept in original recipient and according with recommendation.
2. Condition to avoid  
Avoid all possible sources of heat, electrostatic discharges, ignition(spark or flame).  
Avoid storage at temperature higher than 35°C and direct exposure in the sunlight.
3. Materials to avoid  
Strong oxidative substances, strong acid, and alkaline solutions may give exothermic reactions in contact with this product.
4. Hazardous decomposition products  
Thermo oxidative decomposition gives carbon monoxide, carbon dioxide, nitrogen oxides and a dense smoke, which contain other unidentified decomposition products. If this product is heated up to its decomposition temperature may lead to explosion.

### 11. TOXICOLOGICAL INFORMATION

#### 1. Toxicity Information

Chemical Name	LD50.Oral	LD50.Skin	LD50.Inhalation (gas)	LD50.Inhalation (vapour)	LD50.Inhalation (mist)
Water	LD50 90000 mg/kg Rat	No data	No data	No data	No data
Talc	No data	No data	No data	No data	No data
Titanium dioxide	LD50 >2000 mg/kg Rat	No data	No data	No data	LC50 > 6.82 mg/ℓ 4 hr Rat
2-Methyl-2-propenoic acid methyl ester polymer with 2-ethylhexyl 2-propenoate	No data	No data	No data	No data	No data
Kaolin, calcined	LD50 >2000 mg/kg rat	No data	No data	No data	No data
2-(Acetyloxy)-1,2,3-propanetricarboxylic acid tributyl ester	LD50 31400 mg/kg Rat	자료없음	해당없음	자료없음	해당없음
Sodium nitrite	LD50 = 1500 mg/kg Rat	No data	LC50 = 5.5 mg/ℓ 4 hr Rat	LC50 = 5.5 mg/ℓ 4 hr Rat	LC50 = 5.5 mg/ℓ 4 hr Rat

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## 12. ECOLOGICAL INFORMATION

### 1. Ecological Information

Chemical Name	LC50.fish	LC50.water fleas	LC50.algae
Water	No data	No data	No data
Talc	LC50 > 100000 mg/ ℓ 24 hr	LC50 = 94983.781 mg/ ℓ 48 hr	LC50 = 48545.539 mg/ℓ
Titanium dioxide	LC50 > 100 mg/ℓ 96 hr Carassius	LC50 > 500 mg/ℓ 48 hr Daphnia magna	EC50 > 50 mg/ℓ 72 hr
2-Methyl-2-propenoic acid methyl ester polymer with 2-ethylhexyl 2-propenoate	No data	No data	No data
Kaolin, calcined	No data	No data	No data
2-(Acetyloxy)-1,2,3-propanetricarboxylic acid tributyl ester	LC50 38 ~ 60 mg/ ℓ 96 hr Lepomis	EC50 7.82 mg/ℓ 48 hr Ceriodaphnia	No data
Sodium nitrite	LC50 = 0.36 mg/ℓ 96 hr	EC50 = 18.11 mg/ℓ 48 hr	EC50 = 159 mg/ℓ 72 hr

2. Soil mobility : Not known

3. Persistence and degradability

There is no specific data available on the product itself. The product should not be allowed to enter drains or watercourses or be deposited where they can affect ground or surface waters.

4. Potential bioaccumulation : Be possible.

## 13. DISPOSAL CONSIDERATION

1. Relevant insurance of legislation

Dispose of in accordance with local regulations

2. Waste removal measures

Waste must be disposed of in accordance with state and local environmental regulations.

3. Direction for the waste disposal

Preferred options for disposal are recycling, incineration with energy recovery, and landfill.

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### 14. TRANSPORT INFORMATION

1. Classification by shipping transportation dangerous substance and regulation of storage :
2. Direction for transport  
The product must be kept in original container tightly closed and transport at normal temperature.
3. International Maritime Dangerous Goods Code  
U.N Number : Not Applicable  
Shipping name : Not Applicable  
  
Hazard class : Not Applicable  
Packing group : Not Applicable
4. Marine pollutant : Not Applicable
5. Special precautions for user related to transport or transportation measures
  - Ems FIRE SCHEDULE : Not Applicable
  - EmS SPILLAGE SCHEDULE : Not Applicable
  - Air transport(IATA) : Not Applicable

### 15. REGULATORY INFORMATION

1. Article of KOREA OCCUPATIONAL SAFETY \_HEALTHY AGENCY : Not determined. Water-soluble
2. Article of Harmful Chemical Substance : Sodium nitrite
3. Classify of The Fire Service Act : Not applicable

### 16. OTHER INFORMATION

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release is not to be considered a warranty or quality specification

The 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, unless specified in the text.

This information is based on technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained.