

# SAFETY DATA SHEET

[For mixture (For paint)]

## 1. Chemical Product and Company Identification

- Product name : GAINA
- Company name : NISSIN SANGYO CO., LTD.
- Address : 3-1-15, Hasune, Itabashi-ku, Tokyo, 174-0046 JAPAN
- Relevant dept. : Technical Development Department
- Phone number : 03-5916-4451
- Fax number : 03-6454-9731
- Emergency phone number : 03-5916-4451

## 2. Hazards Identification

### GHS classification

- |   |                             |
|---|-----------------------------|
| • Acute toxicity (Oral)                               | Category 5                  |
| • Acute toxicity (Dermal)                             | Not classified              |
| • Acute toxicity (Inhalation: vapour)                 | Classification not possible |
| • Skin corrosion/irritation                           | Not classified              |
| • Serious eye damage/irritation                       | Not classified              |
| • Respiratory or skin sensitization                   | Not classified              |
| • Germ cell mutagenicity                              | Not classified              |
| • Carcinogenicity                                     | Category 2                  |
| • Reproductive toxicity                               | Category 1B                 |
| • Specific target organ toxicity (Single exposure)    | Category 1                  |
| • Specific target organ toxicity (Repeated exposure)  | Category 1                  |
| • Aspiration hazard                                   | Classification not possible |
| • Hazards to the aquatic environment - acute hazard   | Category 3                  |
| • Hazards to the aquatic environment - chronic hazard | Category 4                  |
| • Hazards to the ozone layer                          | Classification not possible |

### GHS Label elements

- Signal words : Danger
- Hazard statements :
  - May be harmful if swallowed
  - Suspected of causing cancer
  - May damage fertility or the unborn child
  - Causes damage to organs (central nervous system, kidney, heart, respiratory organ)
  - Causes damage to organs through prolonged or repeated exposure (central nervous system, heart, respiratory organ)



- Harmful to aquatic life
- May cause long lasting harmful effects to aquatic life

## [Prevention]

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Use personal protective equipment if necessary.
- Do not breathe dust/fume/gas/mist/vapours/spray.
- Wash hands thoroughly after handling.

## [Response]

- If inhaled, call a doctor if you feel unwell.
- If skin irritation occurs, get medical advice/attention.
- If in eyes, rinse cautiously with water for several minutes.
- If eye irritation persists: Get medical advice/attention.
- IF exposed, call a doctor.

## [Storage]

- Avoid humidity and direct sunlight. Keep container tightly closed and store in a well-ventilated cool dark place. Store locked up.

## [Disposal]

- Entrust disposal of contents/container to the professional disposal contractor who has received the permission of the prefectural governor.

### 3. Composition/Information on Ingredients

Composition and content (Object hazardous substance) :

Component name	CAS No.	Content wt%	PRTR	ISHA
Acrylic silicon resin		20 ~ 25		
Non-crystalline silica	7631-86-9	1 ~ 5		
Titanium dioxide	13463-67-7	5 ~ 10		No. 191
White spirit (Mineral spirit)	64742-47-8	1 ~ 2		No. 551
Ethylene glycol	107-21-1	1 ~ 5		No. 75
Ceramic beads	7631-86-9, 1344-28-1	10 ~ 15		
Water		40 ~ 45		
Other		5 ~ 10		

(ISHA) Industrial Safety and Health Act

### 4. First-aid Measures

If inhaled :

- If you feel unwell by inhaling vapour, gas and the like, remove victim to fresh air and keep at rest in a position comfortable for breathing.

If on skin :

- Wipe off adhered material quickly with a cloth.

- Wash off thoroughly with plenty of water, soap or with cleaner for skin.
- Do not use solvent and thinner.
- If there is a change in appearance or feel pain, show SDS and get medical attention.

If in eyes :

- Immediately remove all contaminated clothing.
- Immediately wash with plenty of clean running water at least 15 minutes.
- Remove contact lenses, if present and easy to do.
- Wash eyes completely, even the back of the eyelids.

If swallowed :

- If swallowed by mistake, take a rest, and immediately show SDS and get medical attention.

Protection for first-aiders :

- Wear appropriate protective equipment (protective glasses, protective mask, gloves and the like).
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## 5. Fire Fighting Measures

Extinguishing media :

- Fire extinguisher agent, carbon dioxide, sand and water spray are effective.

Unsuitable extinguishing media:

- No information.

Fire fighting method :

- Extinguish the fire in response to fire in surroundings.
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## 6. Accidental Release Measures

Personal precautions

- Wear appropriate protective equipment (protective glasses, protective mask, gloves and the like) when processing the leakage.

Protective equipment and emergency measures :

- Prevent secondary disaster by prohibiting the entry of unauthorized person to surrounding.
- Remove promptly ignition sources, hot surfaces and flammable materials from the surrounding.
- Prepare the appropriate fire extinguisher just in case of ignition.

Precautions for the environment :

- Be careful not to discharge into the rivers and the like, to prevent effect on the environment.

Method for containment and clean-up :

- Collect the leakage into closable container and remove to safety area.
  - Treat the adhered material, wastes and the like, based on the relevant laws and regulation.
  - Collect with scoop, waste cloth and the like. In case of large leakage, prevent the outflow by embankments and the like. Pay attention that washing with water may cause environmental pollution by discharging into rivers and the like.
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- In case of handling for long time, provide the facilities that take sufficient air supply and exhaust and workers are not exposed.

Respiratory protection : Wear gas mask for organic gas.

Wear air-supplied respirators in the closed place.

Hand protection : Wear gloves which is made of material which is impermeable to organic solvents or chemical product.

Eye protection : Wear protective glasses.

Skin and body protection :

- For handling, wear clothing that is not exposed skin directly.  
Made of material which is impermeable to chemical product is desirable.

## 9. Physical and Chemical Properties

Physical state

- State : Liquid
- Color : White
- Odor : Acrylic odor
- pH : 7.5 ~ 10
- Density: 0.72 ~ 0.78
- Melting point/freezing point : No information
- Boiling point: 100 °C
- Explosive limits: No information
- Flash point: None.
- Vapour pressure: No information
- Auto-ignition temperature : No information
- Threshold of odor: No information
- Flammability (solid/gas): No information
- Solubility: Water (miscible)

## 10. Stability and Reactivity

Stability

- Condition (temperature/light, etc.) : It does not react under standard condition.
- Incompatible materials : No information.
- Hazardous decomposition products : No information.
- Other hazard information: Do not leave the cloth, paper, brush, roller and the like which contain this product in deposited or rounded state.

## 11. Toxicological Information

Substance name:

- |                                    |                |                     |   |
|------------------------------------|----------------|---------------------|---|
| • Titanium oxide                   | Acute toxicity | Oral Rat            | LD50>10000 mg/kg                                      |
|                                    |                | Dermal Rabbit       | LD50>10000 mg/kg                                      |
|                                    |                | Inhalation (vapour) | Classification not possible because there is no data. |
| • White spirit<br>(Mineral spirit) | Acute toxicity | Oral Rat            | LD50>15000 mg/kg                                      |
|                                    |                | Dermal              | No data.  |
|                                    |                | Inhalation (vapour) | No data.  |
| • Ethylene glycol                  | Acute toxicity | Oral Rat            | LD50=4000~10200 mg/kg                                 |
|                                    |                | Dermal Rat          | LD50=10600 mg/kg                                      |

Inhalation (vapour) No data.

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## 12. Effects on the Environment

: Handle with care because it may cause effect on environment at the time of leakage and disposal. Especially, handle the product and washing water to not flow directly into the ground, river and drainage ditch.

Ecotoxicity: No information.

Persistence/degradability: No information.

Bioaccumulation: No information.

Mobility in soil: No information.

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## 13. Precautions for Disposal

Residual wastes :

- Entrust disposal of wastes such as paints and containers to industrial waste disposal contractor who have obtained a license.
- Do not discharge waste water that was used for washing containers, equipment and the like to the ground or drain without treat.
- For waste generated by waste water treatment and incineration and the like, dispose them in accordance with Waste Management and Public Cleansing Law and relevant law and regulations, or entrust disposal to contractor.
- Entrust disposal to industrial waste disposal contractor who have obtained a license from local governor; otherwise if the local government is performing waste disposal, entrust them disposal.

Contaminated container and packages :

- If dispose the empty container, dispose after removing contents completely.
  - Contract with the industrial waste disposal contractor who has obtained a license, and entrust the disposal.
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## 14. Transport Information

: Follow the description in section of 'Handling and Storage'.

: Load to not overturning, falling and damage, and take prevention of cargo collapse securely.

Domestic regulation:

- Inland transport : Fire Service Law, Industrial Safety and Health Act, or Poisonous and Deleterious Substances Control Act; If applicable, follow the transportation method as defined in the respective applicable law.
- Sea transport : Follow the regulation of Ship Safety Law.
- Air transport : Follow the regulation of Civil Aeronautics Act.

International Maritime Dangerous Goods Codes(IMDG code)

- UN number : Not applicable.
- Proper shipping name: Not applicable.
- UN class : Not applicable.

- Packing group : Not applicable.
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## 15. Regulatory Information

Fire Service Act : Not applicable

Industrial Safety and Health Act :

- Dangerous and Harmful Substances Subject to Notify Their Names(Article 57-2 of the Act, Appended Table 9 of Article 18-2 of the Enforcement Ordinance)  
(No.191 [Titanium oxide (IV)], No. 75[Ethylene glycol])  
(No.551 [Mineral spirit])

PRTR Law (Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof :

- Not applicable
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## 16. Other Information

[Reference]

- Japan Paint Manufacturers Association edition (Raw material data sheet): Japan Paint Manufacturers Association
- Safety Data Sheet Guide book(For mixture(for paint): Japan Paint Manufacturers Association
- Hazard substance data book: Maruzen
- GHS classification data base (National Institute of Technology and Evaluation NITE)

[Disclaimer]

This SDS is provided for general industrial use as reference information to ensure the "appropriate handling of product", and this is not a guarantee of manufacturer.

It is prepared based on the materials and measurement and the like that is considered to be capable of reliable at this time.

Businesses, who handle this product, please use it under understanding that it is necessary to take appropriate measures depending on the actual situation with the responsibility of own as refer to this SDS.