

Date of issue for the 1st edition : 7/2/2023

## Safety Data Sheet

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### 1. Identification of the substance/mixture and of the company/undertaking

Product name :

Product name: K-WHITE G105

Product code (SDS NO): KG105\_2\_E7-1

Recommended use and restrictions on use

Recommended use : Corrosion inhibitor

Details of the supplier of the safety data sheet

Name of supplier : TAYCA CORPORATION

Address : 4-11-6, TANIMACHI, CHUO-KU, OSAKA, JAPAN

Division : SALES DEPARTMENT

Phone : +81-6-6943-6453

FAX : +81-6-6943-6498

Address : 3-8-2, NIHONBASHI, CHUO-KU, TOKYO, JAPAN

Division : TOKYO BRANCH

Phone : +81-3-3275-0815

FAX : +81-3-3275-0859

Emergency phone : OSAKA FACTORY +81-6-6555-3254

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### 2. Hazards identification

GHS classification and label elements of the product

Classification of the substance or mixture

HEALTH HAZARDS

Serious eye damage/eye irritation: Category 2

(Note) GHS classification without description: Not classified/Classification not possible

Label elements



Signal word: Warning

HAZARD STATEMENT

Causes serious eye irritation

PRECAUTIONARY STATEMENT

Prevention

Wash contaminated parts thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

### 3. Composition/information on ingredients

Mixture/Substance selection:

Mixture

Ingredient name	Content (%)	CAS No.	Chemicals No, Japan
Aluminium Dihydrogen Triphosphate	70 – 80	13939-25-8	1-24
Inorganic Magnesium compound	Trade Secret	Trade Secret	Trade Secret

In accordance with paragraph(i) of § 1910.1200, the specific chemical identify and /or exact percentage of composition has been withheld as a trade secret.

### 4. First-aid measures

Descriptions of first-aid measures

#### IF INHALED

Remove person to fresh air and keep comfortable for breathing.  
Call a POISON CENTER or doctor/physician if you feel unwell.

#### IF ON SKIN (or hair)

Wash with plenty of soap and water.  
If skin irritation or rash occurs: Get medical advice/attention.

#### IF IN EYES

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/attention.

#### IF SWALLOWED

Rinse mouth.  
Call a POISON CENTER or doctor/physician if you feel unwell.

### 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Use appropriate extinguishing media suitable for surrounding facilities.  
This product is non-flammable.  
Unsuitable extinguishing media data is not available.

Specific hazards arising from the substance or mixture

Fire may produce dust and/ or fumes.

Advice for firefighters

Specific fire-fighting measures

If it is not dangerous, move the container from the fire area.

Special protective equipment and precautions for fire-fighters

Wear appropriate protective equipment and fireproof clothing.

### 6. Accidental release measures

Personnel precautions, protective equipment and emergency procedures

Keep unauthorized personnel away.  
Wear proper protective equipment.

Environmental precautions

Avoid release to the environment.  
Avoid raising dust.

Methods and materials for containment and cleaning up

Collect spillage.

Preventive measures for secondary accident  
Collect spillage.

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## 7. Handling and storage

### Precautions for safe handling

#### Preventive measures

(Exposure Control for handling personnel)

Do not breathe dust/mist.

(Exhaust/ventilator)

Exhaust/ventilator should be available.

(Safety treatments)

Avoid contact with skin.

Avoid contact with eyes.

#### Safety Measures

Do not handle until all safety precautions have been read and understood.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face protection.

Wash hands et al thoroughly after handling.

Do not eat, drink or smoke when using this product.

Any incompatibilities data is not available.

#### Advice on general occupational hygiene

Wash contaminated parts thoroughly after handling.

### Storage

#### Conditions for safe storage

Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Avoid high stacking

#### Container and packaging materials for safe handling

Put into closed-type packaging or container (There are no limit for packaging and container).

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## 8. Exposure controls/personal protection

### Control parameters

#### Adopted value

(Aluminium Dihydrogen Triphosphate)

ACGIH(2007) TWA: (Insoluble)1mg/m<sup>3</sup>(R) (Pneumoconiosis; LRT irr; neurotoxicity)

(Inorganic Magnesium compound)

ACGIH(2000) TWA: 10mg/m<sup>3</sup>(I) (URT; metal fume fever)

#### OSHA-PEL

(Inorganic Magnesium compound)

TWA: 15mg/m<sup>3</sup>

#### NIOSH-REL

(Inorganic Magnesium compound)

See Appendix D

### Exposure controls

#### Appropriate engineering controls

Exhaust/ventilator should be available.

Eye wash station should be available.

Washing facilities should be available.

#### Individual protection measures

##### Respiratory protection

Wear respiratory protection.

##### Hand protection

- Wear protective gloves.
- Eye protection
  - Wear eye/face protection.
- Skin and body protection
  - Wear protective clothing.

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## 9. Physical and Chemical Properties

### Information on basic physical and chemical properties

- Physical state: Powder/granule
  - Color: White
  - Odor: None
  - Odor threshold data is not available.
  - Melting point/Freezing point: No information
  - Boiling point or initial boiling point: No information
  - Boiling range data is not available.
  - Flammability (gases, liquids and solids) data is not available.
  - Lower and upper explosion limit/flammability limit: No information
  - Flash point: No information
  - Auto-ignition temperature: No information
  - Decomposition temperature: No information
  - Self-Accelerating Decomposition Temperature/SADT: No information
  - pH: Weakly basic (10% water dispersion)
  - Dynamic viscosity: No information
  - Kinematic viscosity: No information
  - Solubility:
    - Solubility in water: No information
    - Solubility in solvent data is not available.
    - Solubility as solvent data is not available.
  - n-Octanol/water partition coefficient: No information
  - Vapor pressure: No information
  - Vapor density: No information
  - VOC: Not applicable
  - Evaporation rate data is not available.
  - Density and/or relative density: 2.6g/cm<sup>3</sup>
  - Relative vapor density (Air=1) data is not available.
  - Relative density of the Vapor/air – mixture at 20°C (Air = 1) data is not available.
  - Critical temperature data is not available.
  - No Particle characteristics data is not available.
- ### Other information
- Radioactivity: No information
  - Bulk density: No information
  - (Aluminium Dihydrogen Triphosphate)
  - Melting point: 1200°C

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## 10. Stability and Reactivity

- ### Reactivity
- Stable under normal storage/handling conditions.
- ### Chemical stability
- Stable under normal storage/handling conditions.
- ### Possibility of hazardous reactions
- Possibility of hazardous reactions data is not available.
- ### Conditions to avoid

Conditions to avoid data is not available.

Incompatible materials

Incompatible materials data is not available.

Hazardous decomposition products

Hazardous decomposition products data is not available.

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## 11. Toxicological Information

Information on toxicological effects

Acute toxicity

Acute toxicity (Oral)

[base data and/or Rationale for the classification]

(Aluminium Dihydrogen Triphosphate)

rat LD50 = 18400mg/Kg.

Irritant properties

Skin corrosion/irritation

[base data and/or Rationale for the classification]

(Aluminium Dihydrogen Triphosphate)

rabbit, Negative.

Serious eye damage/irritation

[base data and/or Rationale for the classification]

(Aluminium Dihydrogen Triphosphate)

cat.2A:

Based on an opinion of Aluminium dihydrogen triphosphate SIEF in EU.

Allergenic and sensitizing effects data is not available.

Germ cell mutagenicity

[base data and/or Rationale for the classification]

(Aluminium Dihydrogen Triphosphate)

Negative (Ames test).

Carcinogenicity

(Aluminium Dihydrogen Triphosphate)

ACGIH-A4(2007) : Not Classifiable as a Human Carcinogen

(Inorganic Magnesium compound)

ACGIH-A4(2000) : Not Classifiable as a Human Carcinogen

Reproductive toxicity

[base data and/or Rationale for the classification]

(Aluminium Dihydrogen Triphosphate)

No-observed-effect level(NOEL) rat 1000mg/kg/day (NITE).

Teratogenic effects data is not available.

STOT

STOT-single exposure data is not available.

STOT-repeated exposure data is not available.

Aspiration hazard data is not available.

Additional information

(Aluminium Dihydrogen Triphosphate)

Repeated dose toxicity

No-observed-effect level(NOEL) rat male 100mg/kg/day, rat female 300mg/kg/day (NITE).

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## 12. Ecological Information

Ecotoxicity

Aquatic toxicity

Hazardous to the aquatic environment (Acute)

[base data and/or Rationale for the classification]

(Aluminium Dihydrogen Triphosphate)  
Killifish LC50> 100mg/L/24, 48, 72, 96hr.  
Pseudokirchneriella subcapitata EC50> 100mg/L/0 – 72hr.  
Daphnia magna EC50> 100mg/L/24, 48hr.

Water solubility

(Inorganic Magnesium compound)  
poor (ICSC, 2010)

Persistence and degradability

Persistence and degradability data is not available.

Bioaccumulative potential

(Aluminium Dihydrogen Triphosphate)  
concentration characteristics : low (NITE).

Mobility in soil

Mobility in soil data is not available.

Other adverse effects

Ozone depleting chemical data is not available.

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13. Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging

Waste treatment methods

Avoid release to the environment.  
Dispose of contents/container in accordance with local/national regulation.

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14. Transport Information

Not applicable to UN No., UN CLASS

Environmental hazards

MARPOL Annex III – Prevention of pollution by harmful substances

Marine pollutants (yes/no) : no

Special precautions for user

Keep dry.  
Protect from direct sunlight or rain.

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15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

US Federal Regulations

Chemicals listed in TSCA Inventory

Inorganic Magnesium compound; Aluminium Dihydrogen Triphosphate

Other regulatory information

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

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16. Other information

Reference Book

Globally Harmonized System of classification and labelling of chemicals, (7th revised edition, 2017), UN  
Recommendations on the TRANSPORT OF DANGEROUS GOODS 20th edit., 2017 UN  
Classification, labelling and packaging of substances and mixtures (Table 3 ECNO6182012)  
2016 EMERGENCY RESPONSE GUIDEBOOK (US DOT)  
2020 TLVs and BEIs. (ACGIH)

<http://monographs.iarc.fr/ENG/Classification/index.php>

JIS Z 7252 : 2019

JIS Z 7253 : 2019

2019 Recommendation on TLVs (JISOH)

Supplier's data/information

NITE; <http://www.safe.nite.go.jp/japan/sougou/view/SystemTop.jp.faces>

JCDB ezADVANCE

#### General Disclaimer

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety.

The data does not signify any warranty with regard to the products' properties.