

# MATERIAL SAFETY DATA SHEET

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## SECTION 1. Identification

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- 1.1 Product name : Poster color White 250ml
- 1.2 Recommended use of the chemical and restrictions on use : Marking, Painting
- 1.3 Supplier's details
  - Name : monami co.,Ltd
  - Address : #854-2, Dongcheon-dong, Suji-gu, Yongin-si, Gyeonggi-do, Korea
  - Phone number : 82-31-270-5278

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## SECTION 2. Hazard identification

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- 2.1 Classification of the substance or mixture
  - Not classified as hazardous (Not a hazardous mixture)
- 2.2 Label elements
  - Hazard pictograms : None
  - Signal word : None
  - Hazard statements : None
  - Precautionary statements :
    - Prevention None
    - Response None
    - Storage None
    - Disposal None
- 2.3 Other hazards which do not result in classification : Health 0, Flammability 0, instability 0 (NEFA)

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## SECTION 3. Composition/information on ingredients

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Ingredient name	CAS No.
Pigments	-
Calcium carbonate	471-34-1
Titanium dioxide	13463-67-7
Glycerin	56-81-5
Arabic gum	9000-01-5
Water	7732-18-5

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## SECTION 4. First-aid measures

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- 4.1 Description of first aid measures
  - Inhalation : Move exposed person to fresh air.
    - In case of indisposition, seek medical advice.
  - Ingestion : Symptomatic treatment.
    - In case of indisposition, seek medical advice.
  - Skin contact : Wash with water.

Eye contact : Rinse with plenty of water.

In case of irritation, seek medical advice

4.2 Most important symptoms/effects, acute and delayed : in section 11

4.3 Indication of immediate medical attention and special treatment needed, if necessary : No data available

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## **SECTION 5. Fire-fighting measures**

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5.1 Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

5.2 Specific hazards arising from the chemical :

Non flammable, non combustible substance

5.3 Special protective actions for fire-fighters :

Fire-fighters should wear appropriate protective equipment and self contained breathing apparatus

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## **SECTION 6. Accidental release measures**

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6.1 Personal precautions, protective equipment and emergency procedures :

Eliminate all ignition sources. Stop leak if safe to do so. Avoid breathing vapour or mist.

6.2 Environmental precautions :

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

6.3 Methods and materials for containment and cleaning up :

Small spill – Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container.

Large spill – Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas.

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## **SECTION 7. Handling and storage**

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7.1 Precautions for safe handling : Do not breathe vapour or mist. Avoid contact with eyes, skin and clothing.

7.2 Conditions for safe storage, including any incompatibilities :

Keep in the original container. Store under dry conditions. Do not store with acids.

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## **SECTION 8. Exposure controls/personal protection**

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8.1 Control parameters (Exposure limit values in the air of the work place or biological limit value) : No data available

8.2 Appropriate engineering controls : Use with adequate ventilation

8.3 Individual protection measures, such as personal protective equipment (PPE)

- Eye protection : Not applicable
- Skin protection : Not applicable
- Body protection : Not applicable
- Respiratory protection : Not applicable

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## **SECTION 9. Physical and chemical properties**

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9.1 Appearance (physical state, colour etc) : Colored liquid

9.2 Odour : Odourless

9.3 Odour threshold : No data available

9.4 pH : No data available

9.5 Melting point/freezing point : < -5 °C

9.6 Initial boiling point and boiling range : No data available

9.7 Flash point : > 110 °C

- 9.8 Evaporation rate : No data available
- 9.9 Flammability (solid, gas) : No data available
- 9.10 Upper/lower flammability or explosive limits : No data available
- 9.11 Vapour pressure : No data available
- 9.12 Vapour density : No data available
- 9.13 Relative density : No data available
- 9.14 Solubility (ies) : soluble in water
- 9.15 Partition coefficient n-octanol/water : No data available
- 9.16 Auto-ignition temperature : No data available
- 9.17 Decomposition temperature : No data available
- 9.18 Viscosity : No data available

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## **SECTION 10. Stability and reactivity**

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- 10.1 Reactivity : This material is considered to be non reactive under normal use conditions
- 10.2 Chemical stability : stable
- 10.3 Possibility of hazardous reactions : No data available
- 10.4 Conditions to avoid : heat, sparks, open flames, hot surfaces
- 10.5 Incompatible materials : Avoid contact with acids
- 10.6 Hazardous decomposition products :  
Under normal conditions of storage and use, hazardous decomposition products should not be produced

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## **SECTION 11. Toxicological information**

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- 11.1 Information on the likely routes of exposure : No data available
- 11.2 Information on toxicological effects
  - Acute toxicity (Oral) : LD50 > 10000mg/kg Rat (Titanium dioxide), LD 6450mg/kg Rat (Calcium carbonate), LD50 27200mg/kg Rat (Glycerin), LD50 > 16000mg/kg Rat (Arabic gum), LD50 90000mg/kg Rat (Water)
  - Acute toxicity (Dermal) : LD50 > 10000mg/kg Rat (Titanium dioxide), LD50 > 10000 mg/kg Rat (Glycerin)
  - Acute toxicity (Inhalation) : No data available
  - Skin corrosion/irritation : No data available
  - Serious eye damage/irritation : Non irritating
  - Respiratory or skin sensitization : Not sensitizing
  - Germ cell mutagenicity : No data available
  - Carcinogenicity : No data available
  - Reproductive toxicity : No data available
  - Specific target organ toxicity-single exposure : No data available
  - Specific target organ toxicity-repeated exposure : No data available
  - Aspiration hazard : No data available

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## **SECTION 12. Ecological information**

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- 12.1 Toxicity : fish – LC50 > 56000mg/l 96hr (Calcium carbonate), LC50 5000mg/l 24hr *Carassius auratus* (Glycerin)
- 12.2 Persistence and degradability : No data available
- 12.3 Bioaccumulative potential : No data available
- 12.4 Mobility in soil : No data available
- 12.5 Other adverse effects : No data available

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**SECTION 13. Disposal considerations**

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## 13.1 Disposal methods

Dispose of contents/container to in accordance with local/regional/national/international regulation

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**SECTION 14. Transport information**

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14.1 UN Number : Not regulated (Not dangerous for transport)

14.2 UN Proper Shipping Name : Not dangerous goods

14.3 Transport hazard classes : Not regulated (Not dangerous for transport)

14.4 Packing group, if applicable : Not regulated (Not dangerous for transport)

14.5 Environmental hazards : Not regulated (Not dangerous for transport)

14.6 Special precautions for user : Not regulated (Not dangerous for transport)

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**SECTION 15. Regulatory information**

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

Not classified as hazardous

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**SECTION 16. Other information**

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16.1 Reference : Korea occupational safety and health agency (KOSHA)

National Chemicals Information System (NCIS)

Korea dangerous material inventory management system

HSDB, IUCLID, ECB-ESIS, ECOTOX, IATC, ACGIH, ICSC, SIDS, SIAM

16.2 Number of revision and Date of revision : 2014-12-19 (ver.2)