

Safety Data Sheet

1. PRODUCT AND COMPANY INFORMATION

Product name : Millennium Art, Millennium Art(WEB), Titan Art Eco, Titan GLOSS ECO
 Company : HANSOL PAPER Co., Ltd
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Recommended use of the chemical and restrictions on use

Recommended use : Printing Paper
 Restrictions on use : No data available

2. HAZARDS IDENTIFICATION

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

Physical hazard : Not applicable
 Health hazard : Not applicable
 Environment hazard : Not applicable

Label elements including precautionary statements

Symbol / Signal word : Not applicable
 Hazard statements / Precautionary statements : Not applicable

NFPA Rating

Health : 0 Flammability : 1 Reactivity : 0 Water reactivity : 0

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS No.	EINECS No.	Conc. %
Wood pulp, bleached	9004-34-6	232-674-9	50 %
Calcium carbonate	1317-65-3	207-439-9	34 %
Clay (kaolin)	1332-58-7	310-194-1	5 %

Butadiene-styrene rubber	9003-55-8	618-370-2	4 %
Starch	9005-25-8	232-679-6	2 %
Water	7732-18-5	231-791-2	5 %

4. FIRST AID MEASURES

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

In case of skin contact

No data available

If inhaled

If breathed in, move person into fresh air.

If not breathing, give artificial respiration.

If swallowed

Never give anything by mouth to an unconscious person.

Potential health effect

May be harmful if swallowed.

Other medical attention.

Medical personnel should be aware of the protective measures of the substance.

5. FIRE-FIGHTING MEASURES

Flammable properties

Flash point : No flash occurred under 93 °C (Rapid equilibrium method)

Burning rate : < 0.7 mm/s at 20 °C (UN TDG test & criteria - Test N1)

Suitable extinguisher

Water spray, alcohol-resistant foam, dry chemical, carbon dioxide

Specific hazards arising from the chemical

No data available

Special protective equipment for fire-fighters

Wear self-contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Remove all sources of ignition.

Environmental precautions

No data available

Methods and materials for containment and cleaning up

Pick up and arrange disposed materials without creating dust.

7. HANDLING AND STORAGE

Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed.

Conditions for safe storage

Avoid direct sunlight, heat sources, and strong oxidizing agents.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Components with workplace control parameter

KOSHA :	Chemical Name	TWA	STEL
	Wood pulp	10 mg/m ³	-
Calcium carbonate	10 mg/m ³	-	
Clay (kaolin)	2 mg/m ³ , respirable fraction	-	
Starch	10 mg/m ³	-	
ACGIH :	Chemical Name	TLV	STEL
	Wood pulp	10 mg/m ³	-
Clay (kaolin)	2 mg/m ³ , respirable fraction	-	
Starch	10 mg/m ³	-	

Appropriate engineering controls : No data available

Personal protective equipment

Respiratory protection : No data available

Hand protection : Protective gloves

Eye protection : Protective goggles

Skin and body protection : No data available

9. PHYSICAL AND CHEMICAL PROPERTIES

State : Solid at 20 °C

Appearance : Flexible sheets

pH : 7.7 ~ 8.7 at 20 °C * Sample : H₂O = 1 : 5 (V/V)

Flash point : No flash occurred under 93 °C (Rapid equilibrium method)

Autoignition temperature : No spontaneous combustion under 200 °C

Water solubility : Water Insoluble at 20 °C

Relative density (Apparent) : 1.2 ~ 1.4 at 20 °C

Flammability

Burning rate : < 0.7 mm/s at 20 °C ※ UN TDG test & criteria – Test N1

Oxidizing properties : No oxidizing hazard ※ UN TDG test & criteria – Test O1

Melting range : > 100 °C

Boiling point (Initial) : No data available

Vapour pressure : No data available

Evaporation rate : No data available

Decomposition temperature : No data available

Partition coefficient (*n-octanol/water*) : No data available

Viscosity : No data available

Explosive properties : No data available

Lower explosion limit / Upper explosion limit : No data available

10. STABILITY AND REACTIVITY

Chemical stability

Stable under general condition.

Conditions to avoid

Avoid dust formation.

Materials to avoid

Strong oxidizing agents

Hazardous decomposition products

Carbon oxides

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Oral	rat	LD50 : > 2,000 mg/kg	※ from US NLM / ECHA
Skin	rabbit	LD50 : > 2,000 mg/kg	
Inhalation	rat	LC50 : > 5.0 mg/L (dust, 4h)	

Skin irritation : No data available

Eye irritation : No data available

Respiratory sensitization : No data available

Skin sensitization : No data available

Germ cell mutagenicity : No data available

Carcinogenicity : Not classifiable ※ from CCRIS / IARC

Reproductive toxicity : No data available

Specific target organ toxicity – single exposure (GHS) : No data available

Specific target organ toxicity – repeated exposure (GHS) : No data available

Aspiration hazard : No data available

12. ECOLOGICAL INFORMATION

Toxicity

Fish LC50 : No data available ※ from US NLM / ECHA

Crustacean EC50 : No data available

Algae EC50 : No data available

Persistence and degradability : No data available

Bioaccumulative potential : No data available

Mobility in soil : No data available

Other adverse effects : No data available

13. DISPOSAL CONSIDERATIONS

Disposal consideration

Observe all environmental regulations.

Disposal precaution

Keep in suitable, closed containers for disposal.

14. TRANSPORT INFORMATION

UN TDG : Not dangerous goods

IATA : Not dangerous goods

IMDG : Not dangerous goods

Marine pollution : Not applicable

Special precaution

Fire EmS Guide : F-E (Recommendation)

Spillage EmS Guide : Not dangerous goods

15. REGULATORY INFORMATION

Korea Industrial Safety and Health Act :

GHS : Not applicable

Material(s) applied by workplace exposure limits : Wood pulp, Calcium carbonate
Clay (kaolin), Starch

Korea Hazardous Materials Safety Control Act : Not hazardous material

Korea Chemicals Control Act : Not toxic chemical

Korea Persistent Organic Pollutants Control Act : Not applicable

US OSHA Hazards (GHS) : Not applicable

16. OTHER INFORMATION

Issued Date : 2020. 01. 08.

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References

- GHS Classification :

Korea MSDS Testing Lab Certificate (Report No. 2020-03-003902), US NLM

- Physical and chemical properties : Korea MSDS Testing Lab Certificate

- Transport information : Korea MSDS Testing Lab Certificate

- Toxic & ecological information : OECD SIDS, ECHA, US NLM, HSDB, IARC, CCRIS, JP NITE

Acronyms and Websites

- ECHA : European chemical agency, <http://echa.europa.eu/>

- US NLM : U.S. National Library of Medicine, <http://chem.sis.nlm.nih.gov/chemidplus/>

- HSDB : US Hazardous Substances Data Bank, <http://toxnet.nlm.nih.gov/>

- CCRIS : US Chemical Carcinogenesis Research Information System, <http://toxnet.nlm.nih.gov/>

- IARC : International Agency for Research on Cancer, <http://monographs.iarc.fr/>

- JP NITE : Japan National Institute of Technology and Evaluation, <http://www.safe.nite.go.jp/>

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