

MIJELLO CO., LTD.

Material Safety Data Sheet

1. PRODUCT AND COMPANY INFORMATION

Product name : MISSION WATERCOLOR
Company : MIJELLO CO., LTD.
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 Republic of Korea
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Recommended use of the chemical and restrictions on use

Recommended use : Watercolors for painting
 Restrictions on use : Food

2. HAZARDS IDENTIFICATION

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

Physical hazard / Health hazard / Environment hazard : Not applicable

Label elements including precautionary statements

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

NFPA Rating

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS No.	EINECS No.	Conc. %
Water	7732-18-5	231-791-2	20 ~ 30
Maltodextrin	9050-36-6	232-940-4	2 ~ 10
Guar Gum	9000-30-0	232-536-8	5 ~ 10
Arabic gum	9000-01-5	232-519-5	5 ~ 10
Sorbitol	50-70-4	200-061-5	5 ~ 10
Honey	8028-66-8	No data available from ESIS	5 ~ 10
Glycerin	56-81-5	200-289-5	5 ~ 10

Carboxymethylcellulose Sodium	9004-32-4	No data available from ESIS	1 ~ 5
C.I. Pigment Red 179	5521-31-3	226-866-1	
C.I. Pigment Blue 60	81-77-6	201-375-5	
Pigment Red 112	6535-46-2	229-440-3	
C.I. Pigment Green 36	14302-13-7	238-238-4	
Pigment Green 7	1328-53-6	215-524-7	
Pigment Red 254	122390-98-1	No data available from ESIS	
Pigment Red 254	84632-65-5	No data available from ESIS	
C.I. Pigment Red 122	980-26-7	213-561-3	
C.I. Pigment Red 122	16043-40-6	No data available from ESIS	
C.I. Pigment Blue 15	147-14-8	205-685-1	
C.I. Pigment Orange 13	3520-72-7	222-530-3	
Pigment Violet 23	6358-30-1	228-767-9	
C.I. Pigment Violet 14	10101-56-1	No data available from ESIS	
C.I. Pigment Blue 28	1345-16-0	310-193-6	
Pigment Blue 29	1317-97-1	No data available from ESIS	
Pigment Blue 29	57455-37-5	No data available from ESIS	5 ~ 15
C.I. Pigment Red 209	3573-01-1	No data available from ESIS	
Pigment Brown 25	6992-11-6	230-258-1	
C.I. Pigment Red 83	104074-25-1	No data available from ESIS	
Pigment Yellow 17	4531-49-1	224-867-1	
C.I. Pigment Yellow 42	51274-00-1	257-098-5	
Pigment Yellow 65	6528-34-3	229-419-9	
C.I. Pigment Blue 35	1345-19-3	215-719-7	
Pigment Blue 35	68187-05-3	269-066-8	
C.I. Pigment Blue 27	12240-15-2	No data available from ESIS	
C.I. Pigment Umber Brown 7	12713-03-0	235-784-5	
C.I. Pigment Red 202	3089-17-6	221-424-4	
C.I. Pigment Red 57:1	5281-04-9	226-109-5	
C.I. Pigment Blue 15:3	147-14-8	205-685-1	
C.I. Pigment Yellow 3	6486-23-3	229-355-1	
C.I. Pigment Red 81	12224-98-5	235-424-7	

C.I. Pigment Black 7	1333-86-4	215-609-9	
C.I. Pigment White 6	13463-67-7	236-675-5	
Ferric oxide	1309-37-1	215-168-2	< 1
Barium sulfate	7727-43-7	231-784-4	
Silicon dioxide	7631-86-9	231-545-4	
Etc.	-	-	< 1

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

Wash off with soap and plenty of water.

If inhaled

If not breathing, give artificial respiration.

If swallowed

Never give anything by mouth to an unconscious person.

Rinse mouth with water.

Potential Health Effects

May be harmful if swallowed.

5. FIRE-FIGHTING MEASURES

Flammable properties

Flash point : No flash occurred under 110 °C (Rapid equilibrium method)

Flash point : No flash occurred under 250 °C (Cleveland open cup)

Autoignition temperature : No spontaneous combustion under 400 °C

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

Do not get into eyes, on skin, or on clothing.

Avoid breathing dust.

Environmental precautions

Don't dispose the product into drainages.

Methods and materials for containment and cleaning up

Pick up and arrange disposed materials without creating dust.

Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Prevent to spill.

Provide appropriate exhaust ventilation at places where dust is formed.

Conditions for safe storage

Stable under general condition.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Components with workplace control parameter

KOSHA :

Chemical Name	CAS No.	TWA
C.I. Pigment Black 7	1309-37-1	3.5 mg/m ³
C.I. Pigment White 6	13463-67-7	10 mg/m ³
Ferric oxide	1309-37-1	5 mg/m ³

US ACGIH :

Chemical Name	CAS No.	TWA
C.I. Pigment Blue 15	147-14-8	1 mg/m ³ , as Cu
C.I. Pigment Black 7	1309-37-1	3 mg/m ³ , respirable fraction
Ferric oxide	1309-37-1	5 mg/m ³ , respirable fraction

Appropriate engineering control : No data available

Personal protective equipment

Respiratory protection : General dust mask

Hand protection : General protective gloves

Eye protection : General protective goggles

Skin and body protection : General working clothes

9. PHYSICAL AND CHEMICAL PROPERTIES

State : Liquid at 20 °C

Flash point

No flash occurred under 110 °C (Rapid equilibrium method)

No flash occurred under 250 °C (Cleveland open cup)

Autoignition temperature : No spontaneous combustion under 400 °C

pH : 7.0 ~ 8.0 at 20 °C

Boiling point (Initial) : > 100 °C

Viscosity : > 20,000 mPa · s (cP) at 20 °C

Density : 1.319 at 20 °C

Water solubility : Water soluble at 20 °C

Explosive properties

No self-reaction hazard ※ UN TDG test & criteria - Test E3

Freezing range (Initial) : No data available

Vapour pressure : No data available

Oxidizing properties : No data available

Decomposition temperature : No data available

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

Evaporation rate : No data available

Lower explosion limit : No data available

Upper explosion limit : No data available

10. STABILITY AND REACTIVITY

Chemical stability

Stable under general condition.

Conditions to avoid : No data available

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 / IUCLID

Item Numbers: 01758-0099, 01758-0349, 01758-0369, 01758-1019, 01758-1030, 01758-1050, 01758-1099, 01758-1249, 01758-2250, 01758-2550, 01758-2560, 01758-2610, 01758-2620, 01758-3010, 01758-3090, 01758-3170, 01758-3250, 01758-3260, 01758-3280, 01758-3380, 01758-3390, 01758-3410, 01758-3450, 01758-3490, 01758-3500, 01758-3690, 01758-3700, 01758-3710, 01758-3720, 01758-3730, 01758-3740, 01758-3750, 01758-3760, 01758-3770, 01758-3780, 01758-3790, 01758-3890, 01758-3910, 01758-3920, 01758-4010, 01758-4020, 01758-4060, 01758-4090, 01758-4130, 01758-4140, 01758-4160, 01758-4190, 01758-4270, 01758-4280, 01758-4510, 01758-4750, 01758-4870, 01758-4920, 01758-4940, 01758-5110, 01758-5160, 01758-5200, 01758-5210, 01758-5220, 01758-5250, 01758-5300, 01758-5340, 01758-5370, 01758-5390, 01758-5440, 01758-5450, 01758-5550, 01758-5650, 01758-5810, 01758-5820, 01758-5830, 01758-5860, 01758-5910, 01758-5920, 01758-6030, 01758-6040, 01758-6510, 01758-6530, 01758-6610, 01758-6680, 01758-6730, 01758-6910, 01758-6930, 01758-6950, 01758-7050, 01758-7070, 01758-7090, 01758-7120, 01758-7150, 01758-7160, 01758-7190, 01758-7480, 01758-7490, 01758-7580, 01758-7710, 01758-7890, 01758-7900, 01758-7910, 01758-7920, 01758-7930, 01758-7940, 01758-7980, 01758-7990, 01758-8040, 01758-8050, 01758-8060, 01758-8070, 01758-8080, 01758-8310, 01758-8910, 01758-8950, 01758-1029

Skin rabbit LD50 : > 5,000 mg/kg
 Inhalation rat LC50 : > 10 mg/L (dust, 4h)

Skin irritation ※ from IUCLID

May cause skin irritation. (Ferric oxide, Titanium dioxide)

Eye irritation ※ from IUCLID

May cause eye irritation. (Ferric oxide, Barium sulfate, Titanium dioxide, Silicon dioxide)

Respiratory sensitization : No data available

Skin sensitization : No data available

Carcinogenicity ※ from IARC

Suspected of causing cancer. (C.I. Pigment Black 7, C.I. Pigment White 6)

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 : > 100 mg/L (96 h) ※ from IUCLID
 Crustacean EC50 : > 100 mg/L (48 h)
 Algae EC50 : > 100 mg/L (96 h)

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

Avoid disposing to the environment.

14. TRANSPORT INFORMATION

UN TDG : Not dangerous goods

IMDG : Not dangerous goods

IATA : Not dangerous goods

Marine pollution : Not applicable

Special precaution

Fire EmS Guide (Recommendation) : F-A

Spillage EmS Guide (Recommendation) : Not dangerous goods

15. REGULATORY INFORMATION

Korea Industrial Safety and Health Act (GHS) : Not applicable

Korea Hazardous Materials Safety Control Act : Not hazardous material

Korea Toxic 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 : 2012. 04. 03

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Revision Date : 2012. 11. 19

References

- GHS Classification :

Korea MSDS Testing Lab Certificate (Report No. 2012-03-04-091), IUCLID, EC ESIS.

- Physical and chemical properties : Korea MSDS Testing Lab Certificate

- Transport information : Korea MSDS Testing Lab Certificate

- Toxic & ecological information : OECD SIDS, IUCLID, US NLM, IARC, EC ESIS, CCRIS,

※ Hazards Testing and Classification

Korea MSDS Testing Laboratory

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This MSDS is composed in line with The Korea Occupational Safety and Health Act Article 41 to protect the health of the employees, and for documentation.

This MSDS is composed with reference to documents and criteria provided by KOSHA.

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