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SAFETY DATA SHEET

1 . IDENTIFICATION

Name of chemical substances:WATER-BASED PAINT "ECO AQUA" GREEN
 Kinds of product:Emulsion paint
 Manufacturer name:DAI NIPPON TORYO CO., LTD.
 Address:6F SR Building NAGAHORI,1-18-11, MINAMISEMBA, CHUO-KU, OSAKA 542-0081 Japan
 Section in charge:Mayor of customer service
 Phone number:+81-6-6266-3150
 FAX number:+81-6-6266-3146
 Emergency telephone number:+81-6-6266-3150
 Reference number:65472
 Use:general

2 . HAZARDS IDENTIFICATION

GHS classification:

Physicochemical Hazards:

Explosives	:Classification not possible
Flammable gases	:Not applicable
Flammable aerosols	:Not applicable
Oxidizing gases	:Not applicable
Gases under pressure	:Not applicable
Flammable liquids	:Not classified
Flammable solids	:Not applicable
Self-reactive substances and mixtures	:Classification not possible
Pyrophoric liquids	:Classification not possible
Pyrophoric solids	:Not applicable
Self-heating substances and mixtures	:Classification not possible
Substances and mixtures which, in contact with water, emit flammable gases	:Classification not possible
Oxidizing liquids	:Classification not possible
Oxidizing solids	:Not applicable
Organic peroxides	:Classification not possible
Corrosive to metals	:Classification not possible

Health hazards:

Acute toxicity - oral	:Not classified
Acute toxicity - dermal	:Not classified
Acute toxicity-inhalation/gases	:Not applicable
Acute toxicity-inhalation/vapour	:Not classified
Acute toxicity-inhalation/dusts and mists	:Category 4
Skin corrosion / irritation	:Category 3
Serious eye damage /irritation	:Not classified
Respiratory sensitization	:Not classified
Skin sensitization	:Category 1
Germ cell mutagenicity	:Not classified
Carcinogenicity	:Not classified
Reproductive toxicity	:Not classified
Specific target organ systemic toxicity (single exposure)	:Classification not possible
Specific target organ systemic toxicity (repeated exposure)	:Classification not possible
Aspiration toxicity	:Not classified

Environmental hazards:

Hazardous to the aquatic environment (acute toxicity)	:Not classified
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Hazardous to the aquatic environment (chronic toxicity) :Not classified

GHS label elements:

Pictogram or symbol:



Signal words:Warning

Hazard statement:

Harmful if inhaled.

Slight skin irritation

May cause an allergic skin reaction.

Precautionary statements:

Prevention:

Avoid breathing dust/fume/gas/mist/vapours/spray.

Contaminated work clothing should not be allowed out of the workplace.

Wear protective gloves as specified by the manufacturer/supplier or the competent authority.

First aid measures:

If skin irritation occurs, seek medical advice/attention.

IF ON SKIN: Gently wash with plenty of soap and water.

If skin irritation occurs, get medical advice/attention.

Wash contaminated clothing before reuse.

Storage:

Store in cool/well-ventilated place.

Keep container tightly closed.

Disposal:

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

3 . COMPOSITION / INFORMATION ON INGREDIENTS

Classification of the substance or mixture:A mixture.

Chemical or generic name:No information

Chemical characteristic (chemical formulas):No information

Poisonous and Deleterious Substances Control Act:No correspond

Component name:

Ingredient name	CAS no	Content (%)	Industrial Safety and Health Act	Poisonous and Deleterious Substances Control Act	Pollutant Release and Transfer Register Law
titanium dioxide	13463-67-7	1.0 ~ 10.0		-	
C.I.Pigment Green 7	1328-53-6	1.0 ~ 10.0		-	
silica	7631-86-9	0.1 ~ 1		-	
amorphous precipitated silica	112926-00-8	<0.1	-	-	

4 . FIRST AID MEASURES

Inhalation:

If inhaled vapour or gases and felt unwell, remove to fresh air and keep at rest in a position comfortable for breathing.

And call a doctor /physician if feels unwell.

If inhaled vapour or gases in large quantities, remove to fresh air and rest with keeping warm. And if breathing gets irregular or stops, perform artificial respiration. And do not let swallow vomit.

Consult a doctor/ physician immediately.

Skin contact:

Wipe off clinging substance with clean cloth quickly.

Wash off thoroughly with plenty of water and soap. Do not use solvent or paint thinner.

If any change of appearance is seen, or pain persists and feels unwell, consult a doctor/physician.

Take off immediately all contaminated clothing.

Eye contact:

Wash off with plenty of clean water immediately for 15 minutes or more. And remove contact lens ,if presence and easy to do.

And completely wash it including the underside of eyelid.

Consult a physician as soon as possible.

Call a POISON CENTER or doctor/physician immediately.

Ingestion:

If swallowed accidentally, rest and consult a doctor/physician immediately.

Do not let swallow vomit.

Avoid forcing to vomit without physician's instruction.

The protection of the person taking first aid measure.:

Wear proper protectors (safety goggles, respirator, gloves,etc.)

Ventilate

5 . FIRE-FIGHTING MEASURES

Extinguishing compositions:All extinguishant.

Special fire extinguishing method(Protection of fire-fighting person):

Perform fire fighting in cope with protecting to fire neighbor.

6 . ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Wear proper protectors (safety goggles, respirator, gloves, apron,etc.)

Declare off-limits of the outskirts and do not bring it close anyone other than the person concerned and prevent a second disaster.

Environmental precautions:

Take cautions not to cause influence on environment by discharge to river.

Methods and materials for containment and cleaning up:

Dispose of waste or clinging matter according to related regulation.

Recollect leakage in the container can be sealed and keep in safety place.

7 . HANDLING AND STORAGE

Handling:

Handling technical measures:

Handle in good ventilated area.

Close container tightly with closer after use.

Wear proper protectors to prevent from contact on skin, mucous membrane, wearing clothes and eyes.

Wash hands and face well after handling, and avoid to bring polluted protectors in any place where person stays.

The person who had allergic symptom must not handle it.

Storage:

Storage, technical measures:

Avoid a direct sunlight.

Keep in good ventilated place.

8 . EXPOSURE CONTROLS / PERSONAL PROTECTION

Taking measures for equipment:

Consider so that the operator can not touch or expose to corrosive substance directly.

In door application, use either not to expose the operator directly, such as using automatic painting machines, or that keeps the operator from exposure, such as local exhaust ventilation equipment.

Management density / permission density:

Chemical substance name	ACGIH_TWA ppm	ACGIH_TWA mg/m3	Skin
titanium dioxide		10	
amorphous precipitated silica		10	

Chemical substance name	IARC
titanium dioxide	2B
amorphous precipitated silica	3

Protective equipment:

Respiratory protective equipment:

In working, wear proper protection mask.

Hand protective equipment:

Wear the glove that organic solvents or chemicals can not permeate through.

Eyes protective equipment:

Wear protective eyeglasses or goggles.

Skin and body protective equipment:

Wear suitable clothing that should be impervious to chemicals and to avoid direct contact of skin in handling.

Other information:

Wear electricity shoes on electrostatic painting.

9 . PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Physical state:Liquid

Colour:No information

Odour:No information

pH:No information

Melting point/freezing point:No information

Initial boiling point and boiling range:100[]~100[]

Flash point:

Auto-ignition temperature(ignition point):No information

Flammability (solid, gas):No information

Upper/lower flammability or explosive limits:0[vol %] / 0[vol %]

Vapor pressure:No information

Vapour density:No information

Evaporation rate:No information

Specific gravity (relative density):1.07

Solubility:

Solubility in water:No information

Dissolubility in water:No information

Solubility in solvent:No information

Dissolubility in solvent:No information

Partition coefficient:n-octanol/water:No pertinence

Decomposition temperature:No information

1 0 . STABILITY AND REACTIVITY

Stability(possibility of hazardous reaction) :

There is no dangerous reaction in the range of room temperature.

Product is considered stable.

Conditions to avoid:

Avoid high temperature.

Hazardous decomposition products:

Hazardous gases such as carbon monoxide may be generated.

1 1 . TOXICOLOGICAL INFORMATION

Acute toxicity:

amorphous precipitated silica

LD50(oral) > 3300mg/kg(4h)

LD50(dermal) > 5000mg/kg(4h)

Serious eye damage /irritation:

titanium dioxide Category 2B

Specific target organ / systemic toxicity - single exposure:

titanium dioxide Category 3

(Respiratory tract irritation)

1 2 . ECOLOGICAL INFORMATION

Take care for spills or waste in handling because of its environmental impact. Especially take care for product or rinsing water not to flow into ground, river and drain directly.

Hazardous to the aquatic environment - Chronic hazard:

titanium dioxide Category 4

1 3 . DISPOSAL CONSIDERATIONS

Residual waste:

Let authorized industrial waste disposing agent to dispose of abolished paint, containers and others under agreement.

Dispose of abolished paint, materials and waste from incineration in accordance with regulation or laws of "Specified Hazardous Industrial Wastes" of Special Controlled Industrial Waste.

Must not dispose of waste water from washing container, machinery and etc. into the ground or

drain without treatment.

Dispose of waste from waste water treatment, incineration and etc. in accordance with regulation or laws relating to disposal and cleaning of waste, or let special disposing agent to dispose.

Polluted container and packing:

Let authorized industrial waste disposing agent to dispose of them under agreement.

Dispose of used container after removing contents completely.

1 4 . TRANSPORT INFORMATION

After confirming the state of container had no leakage, and load to prevent collapsing, fall and damage.

Obey the description of "Handling and Storage"

Land transportation:

If falling under "Fire Service Act", "Industrial Safety and Health Act" or "Poisonous and Deleterious Substances Control Act", obey the transport method regulated in each law.

Marine transportation:

Obey the provisions of "Ship Safety Act"

Air transportation:

Obey the provisions of "Civil Aeronautics Act"

1 5 . REGULATORY INFORMATION

Industrial Safety and Health Act:

Article 57-2, notifiable substances

Waste Management and Public Cleaning Act:

1 6 . OTHER INFORMATION

Literatures:

"Raw Materials Database" edited by Japan Paint Manufacturers Association

"Materials Safety Data Sheet Guide (Mixture)" edited by Japan Paint Manufacturers Association

"Solvent Pocket Book" Ohmsha, Ltd.

The Handbook for Precautions and First Aids to Dangerous Goods.

International Chemical Safety Cards.

Other information:

This SDS is necessary to handle our manufacture property and gathered up the matter which must be paid attention briefly for normal handling.

However the content noted above is prepared based on information or data available at the present, the evaluation of hazardousness and harmfulness is not adequate necessary, so be careful in handling.

This SDS may be revised without notice by revising law or new knowledge.

This SDS is based on the standard of Japan Paint Manufacturers Association with Laws of Japan but not from local government, accord to relevant local laws as required when handling.