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DATA SHEET (SDS) - FOR MIXTURE (FOR PAINT) MATERIAL SAFETY

(1) PRODUCT AND COMPANY INFORMATION

PRODUCT NAME OPTIMUS WHITE PAINT COMPANY NAME Hoei Sangyo Co. Ltd.,

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(2) SUMMARY OF HAZARD

(GHS CLASSIFICATION)

Health hazards

Acute toxicity (oral) : Not classified Acute toxicity (dermal) : Not classified Acute toxicity (inhalation: gas) : Not classified

: Classification not possible Acute toxicity (inhalation: vapor) Acute toxicity (inhalation: dust/mist) : Classification not possible Skin corrosion / irritation : Classification not possible

Serious eye damage / eye irritation : Not classified

: Classification not possible Respiratory sensitization

Skin sensitization : Category 3 Germ cell mutagenicity : Not classified Carcinogenicity : Category 2 Reproductive toxicity : Category 1 Specific target organs /systemic toxicity (single exposure) : Category 1

Specific target organs /systemic toxicity (repeated exposure) : Category 1 : Classification not possible

Aspiration hazard category

Environmental hazard

Aquatic environmental toxicity: acute : Classification not possible Aquatic environment toxicity: chronic : Classification not possible Harmful to the ozone layer : Classification not possible

[GHS LABEL ELEMENTS]

Signal ward : Dangerous

[Hazardous information]

:Suspected of causing cancer.

:May damage fertility or the unborn child.

: Harmful to aquatic life





INSTRUCTION

[Precaution]

- In the handling workspace, please provide a local exhaust system with no flames.
- Ventilation is good while handling, so as not to inhale steam, necessary.
- please respond accordingly to mask for organic gas or as mask for gas supply.
- Protective eyeglasses, protective gloves, long sleeve work clothes so as not to touch the eyes and the skin please wear it.
- After handling, please wash your hands and gargle thoroughly.

[First aid measures]

- In case of fire, please use carbon dioxide gas, form, or powdered fire extinguishers.
- In case of contact with eyes, wash with plenty of water for at least 15 minutes, promptly doctor^s diagnosis please receive.
- If you feel bad by inhaling steam, gas etc., clean air please rest at the place and receive a doctors diagnosis if necessary.
- If it adheres to the skin, wash it off with soapy water, it will cause pain or appearance when there is a change, please consult a
 doctor promptly.
- In case of accidental swallowing, get medical attention immediately.

[Storage]

• Keep locked and stored.

[Leakage]

• If spilling from the container swipe it off with sand, cloth, or the like, please collect it in a container filled with water.

[Disposal]

• Contents and containers, specialized waste received permission from the prefectural governor please consign it to a processing company.

(3) COMPOSITION / INFORMATION ON INGREDIENTS

Distinction between chemical substance and mixtures

: Mixture

ingredients	CAS.No	Content(wt%)	Safety law
Acrylic silicon resin		20~25	
Titanium dioxide 💥	13463-67-7	15~20	No.191
Dipropylene glycol n-butyl ether	29911-28-2	3~4	
Additives		<6	
Micro capsule		1~5	
Calcium carbonate	47134-1	5~10	
Propylene glycol	57-55-6	1~2	
Amorphous silica	7631-86-9	<1.0	No.312
Water		35~40	

X Photocatalyst is included in titanium dioxide.

(4) FIRST AID MEASURES

After inhalation

• Inhale steam, gas if you feel sick immediately transfer to a fresh place of freshness, endeavour to rest and keep warm, medical attention promptly.

After skin contact

- Remove adhered clothes and shoes, while flowing water or cool water while adhering parts wash.
- Rinse thoroughly with plenty of water and soap or skin



After eye contact

- Immediately remove all contaminated clothing.
- Immediately wash with plenty of clean running water for at least 15 minutes.
- Remove contact Lense when worm and can be removed easily.
- Wash thoroughly to the back of the eyelids.

After swallowing

 In case of accidental wallowing, wash the inside of the mouth with water, rest set up SDS immediately present and submit a doctors diagnosis.

Protection of first aiders

• Wear appropriate protective equipment (protective glasses, protective masks, gloves, etc) according to the situation.

(5) FIRE- FIGHTING MEASURES

Extinguishing media

• Water, carbon dioxide , foam , chemical powder , dry sand

Unsuitable extinguishing media

• Straight stream may spread a fire.

Specific fire extinguishing method: For initial fire, powder, carbon dioxide, etc. are used.

- In case of a large-scale fire, it is necessary to shut off the air using a foam etc. It is valid, in the case of a surrounding fire cool the surrounding equipment by spraying water.
- Transfer the movable container to a safe place in a prompt manner.
- Protection of firefighter: When extinguishing fire, wear air respirator, chemical protective clothing.

(6) <u>ACCIDENTAL RELEASE MEASURES PERSONAL PRECAUTIONS</u>

Protective equipment and emergency procedures.

- In the case of indoors, ventilate thoroughly until treatment is completed.
- Approach outside stakeholders by stretching a rope around the leaky place Ban.
- When handling the work, use protective equipment.
- (rubber gloves, protective eyeglasses, breathing protection, etc.) Do not wear and adhere to the skin or inhales gas / vapor.
- Work from the windward side and evacuate people leaning downwind.
- Prepare fire extinguishing equipment in case of ignition.
- In case of large amount, people are safely withdrawn.
- Environmental precautions: Be careful not to let spills enter the river etc
- In case of flowing into a river or the like, contact the fire department, river management department, waterworks bureau, public health
 centre, agricultural cooperative, fishery cooperative etc as necessary.: Appropriate measure such as reporting to the surrounding residents
 that a leak has occurred due to the occurrence of a bad smell etc.

Recovery

• In case of small amount, wipe with dry sand, sawdust, cloth etc, and collect it in a sealable container. Discard it later. : In case of a large amount, stop the flow path with blankets, sandbags, etc., and collect with a vacuum.

Containment and purification methods equipment: Stop leak if it is not

dangerous.

• All equipment used when handling spills is grounded.

Measures to prevent secondary disasters: Remove nearby waste fire sources promptly, prepare fire extinguishers for ignition.



(7) HANDLING AND STORAGE

Precaution for handling: Provide ventilation and wear protectors.

- Avoid exposing by supplying an appropriate protection tool and ventilator.
- Keep container tightly closed.
- Wear protects equipment while the work, avoid eye, skin, and clothing contact.
- Wash hand, face and well gargle after handling.

Precaution for storage

• Avoid freezing, direct sunlight, keep in a well-ventilated place. Avoid overturn, fall-down.

Precaution for painting.

• Provide local exhaust ventilation or general ventilation. Avoid prolonged or repeated exposure.

(8) EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control concentration No setting (Titanium dioxide)

Adopted value, Control value

[Japan Society of Industrial Health] Titanium dioxide Class 2 Dust Respirable Dust: 1mg/m Total Dust: 4mg/m (2009ver.)

[ACGIH] Titanium dioxide TWA 10mg/m³ (2009ver.,)

Dipropylene Glycol Monomethyl Ether TWA 100ppm STEL 150ppm

Equipment measures

- Use designated explosion-proof electricity, ventilation and lighting equipment.
- Take precautionary measures against electrostatic discharge.
- Ventilate for exhaust to keep airborne concentrations below exposure limits.: When mist occurs in the process at high temperature handling, control the air pollutant to the controlled concentration install a ventilator to keep it below
- Do not handle unless sealed equipment, equipment or local exhaust is used. To keep the air concentration below the recommended management concentration below, it is necessary to seal the process. use other equipment countermeasures.
- Store facial cleanser and safety shower in workspaces where this material is not stored and handled.

Respiratory protection

• Wear respiratory protective equipment (gas mask for organic gas, airline mask Hand protection.

Hand protection

Wear oil resistant protective gloves.

Eye protection

• Wear safety glasses (ordinary glasses type, ordinary glasses type with side plate ,goggle type).

Skin and body protection

• Wear protective clothing (antistatic type) and protective shoes(antistatic type)



(9) PHYSICAL AND CHEMICAL PROPERTIES

SHAPE LIQUID COLOUR WHITE ACRYLIC ODOR ODOR 7~8 PH VALUE **BOILING POINT** 100C FREEZING POINT NO DATA **EXPLOSIVE RANGE** NO DATA VAPOR PRESSURE NO DATA VAPOR DENSITY NO DATA DENSITY

SOLUBILITY | SOLUBLE IN WATER
AUTO IGNITION TEMPERATURE NO DATA
RESOLUTION TEMPERATURE NO DATA

(10) STABILITY AND REACTIVITY

CHEMICAL STABILITY | Stable in the air at the normal temperature

REACTIVITY | Non-inflammable, CO, Nox gas occurs with combustion

(11) TOXICOLOGICAL INFORMATION AS TITANIUM DIOXIDE

Acute toxicity Oral | Rat LD50 > 20000 mg / Kg

Acute toxicity Skin | Rabbit approx. LD50 > 10000mg / Kg

IUCLID2000 is classified as "Not Classified."

Carcinogenicity | According to IARC, ultrafine titanium dioxide (particle size 0-50 nm) is classified as Group 2B.

Serious Eye Damage/Irritation: Tests conducted on rabbits indicated mild irritation.

Other Hazard Information: No safety testing has been conducted on the product as a whole.

(12) ECOLOGICAL INFORMATION

Ecotoxicity | Ethanol : Crustaceans (Dephia magna) LC50=5463.9 mg/L (48hr)

IPA : Fishes (Himedaka) LC50=>100mg/L (96hr)

Persistence/Degradable toxicity | No Information
Bio-accumulative potential | No Information
Mobility in soil | No Information

(13) DISPOSAL CONSIDERATIONS

Residual waste:

When incinerating, observe relevant laws and regulations. In the case of disposal, collection and transporters of industrial waste received permission of the prefectural governor contract with the disposal company, the waste disposal law (waste disposal and cleaning law) and comply with relevant laws and regulations and properly process it.

Contaminated containers and packaging:

In case of discarding empty contaminated containers / packages, after completely removing the contents the prefectural governor. We contracted with industrial waste collection / transportation companies and disposal companies that received permission of the Waste Disposal Act (Waste Disposal and Public Cleansing Law) and regulation and laws and regulations properly



(14) TRANSPORT INFORMATION

International regulation	1	Not applicable
UN number	1	Not applicable
UN Class	I	Not applicable
Rail and road transportation information	I	Refer to applicable law and regulation.
Marine transportation information	1	Refer to applicable law and regulation.
Aviation transportation Information	I	Refer to applicable law and regulation.
Special safety measures	I	When transporting, make sure that the container does not leak, to prevent falling, or damage ensure prevention of loading and collapse of load. It is necessary to hold the yellow card when transporting. Do not transport with food and feed

(15) REGULATORY INFORMATION INDUSTRIAL SAFETY AND HEALTH ACT

Harmful substance to be notified of name etc. (Article 57-2 of the law, appended table 9 of Article 18-2 of the enforcement ordinance) No.191 Titanium dioxide No.312 Silica

Industrial Safety and Health Act	Hazardous substances whose names should be notified (Article 57-2 Enforcement Order Article 18-2, Appendix Table 9) (Government Ordinance No. 191: Titanium Dioxide) No. 601 1-(2methoxy2-methylethoxy)2-propanol (40~50%)
Fire Service Law	not applicable
Chemical Substance Emission Monitoring and Management Promotion Act	not applicable
Poisonous and Deleterious Substances Control Law	not applicable
Ship Safety Act	not Applicable.
Aviation Act	not Applicable.
Port Regulations Act	not Applicable.

(16) OTHER INFORMATION (CITED DOCUMENTS, ETC.) REFERENCES CITED

Raw material data sheet (Japan Manufacturing Paint Association) MSDS guide book (for paint) (Japan Manufacturing Paint Association) Hazardous substance data book (Maruzen publishing) GHS classification result database. (National Institute of Technology and Evaluation)

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