Material	Safety	Data	Sheet	(SDS)
For	mixture	(for	paint)	1

	[IOI mixture (IOI paint)]		
1. Product and com	mpany information		
Product name : OPTIMUS UNDER PAINT			
Company name			
Address	: 94, Ohnosiba-cho, Naka-ku, Sakai city, Osa	aka prefecture	
Department in charge	: Engineering department	-	
Phone number	: +81-72-235-1131		
Fax number	: +81-72-234-0835		
Emergency contact	: +81-72-235-1131		
2. Summary of hazar	rd		
[GHS classification			
Health hazards	-		
Acute toxicity (oral)		:Not classified	
Acute tox:	icity (dermal)	:Not classified	
Acute tox:	icity (inhalation:vapor)	:Not classified	
Acute toxicity (inhalation:dust/mist)		:Not classified	
Skin corrosion / irritation		:Not classified	
Serious eye damage / eye irritation		Category 2	
Skin sensitization		:Classification not possible	
Respiratory sensitization		:Classification not possible	
Germ cell mutagenicyty		:Classification not possible	
Carcinogenicity		:Classification not possible	
Reproductive toxicity		:Classification not possible	
Specific target organs /systemic toxicity (single exposure)		:Category 2	
Specific target organs /systemic toxicity (repeated exposure)		:Category 2	
Aspiration hazard category		:Classification not possible	
Enviromental hazard			
Aquatic enviroment chronic hazard		:Category 3	
Aquatic enviroment acute harmfulness		:Category 3	
Hazardous	to the ozone layer	Classification not possible	
[GHS label elements]			



[Hazardous information]

Signal ward

:Causes serious eye irritation.

: Warning

:May cause damage to organ. (The hematopoietic system, The respiratory, The nervous , The kidneys)
:May cause damage to organ and through prolonged or repeated exposure.
(The hematopoietic system, the nervous, the respiratory .)
:Harmful to aquatic life.
:Harmful to aquatic life with long lasting effects.

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 exthinguisher.
: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 doctor's diagnosis if necessary.
:If it adheresto the skin, wash it off with soapy water, it will cause pain or appearance when there is a chage, please consult a doctor promptly.
:In case of accidental swallowing, get medical attention immediately.

[Storage]
:Keep locked and stored.

:If spilling from the containerswipe 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 perfectural governor please consign it to a processing company.

3. Composition / information on ingredients

Distinction between chemical substance and mixturres : Mixture

Chemical name or general name

ingredients	CAS. No	Content(wt%)	Safety law
Acrylic silicon resin		$20 \sim 25$	
Titanium dioxide	13463-67-7	5~10	No. 191
Dipropylene glycol mono methyl ether	34590-94-8	1~2	No. 601
mineral sprit		2~3	
ethylene glycol	107-21-1	2~3	No. 75
Additives		<6	
Micro capsule		1~5	
Silica	7631-86-9	<1.0	
Water		35~40	

4. First aid measures

After inhalation

: Inhale steam, gas etc., and if you feel sick immediately transfer to a fresh place of

freshness, endeavor to rest and keep warm, medical attention promptly.

After skin contact

:Remove adhered clothesand 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 contaminatedclothing.

Immediately wash with plenty of clean running water for at least 15 minutes.

Remove contact lense when worm and can be removed easily.

Wash throughly to the back of the eyelids.

After swallowing

:In case of accidentalswallowing, wash the inside of the mouth with water, rest set up

SDS immediately present and submit a doctor's diagnosis.

Protection of first-aiders

:Wear appropriate pritective 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 dioxcide , 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 extingushing fire, wear air respirator, chemical protective clothing. 6. Accidental release measures Personal precautions. Protective equipment and emergency procedures. :In the case of indoors, ventilate thoroughly until treatment is completed. :Approach outsidestakeholders by stretching a rope around the leaky place Ban. :When handling the work, use protective equipment. (rubber gloves, protective eyeeglasses, breathing protection, etc.) Do not wear and adhere to theskin 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. Enviromental precautions :Be careful not to let spills enter the river etc. In case of flowing into a river or the like, cotact the fire department, river management department, waterworks bureau, public health center, agricultual cooperative, fishery cooperative etc asnecessary. :Appropriate measure such as reporting to the surrounding residents that a leak has occurred due to the occurrence of abad 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 promptl, prepare fire extinguishers for ignition. 7. Handling and Sorage Precaution for handling :Provide ventilation and wear protecters. Avoid exposing by supplying an appropriate protection tool and ventilator. Keep container tightly closed. Wear protect 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. 3/6

Precaution for painting

Auto ignition temperature

Resolution temperature

0thers

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

Adopted v	ure controls and pers value ,Control value ciety for Occupationa Inhalant dust	-	:Not established :Titanium dioxide Total dust	(Titanium 4 mg∕m³	n dioxide) (2009)	
ACGIH		:Titanium dioxide :Di propylene glycc ether	ol mono methyl	TWA TWA STEL	10 mg/m³ 100ppm 150ppm	(2009)
Equipment	measures	e thei		OILL	Toobbii	
<pre>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 processat 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. In order to keep the air concentration below the recommended management concentration below, it is necessary to seal the process. use other eqipment countermeasures. :Store facial cleanser and safety shower in workspaces where this material is not stored and handled. Protective equipment Respiratory protection :Wear respiratory protective equipment (gas mask for organic gas, air line mask) Hand protection. :Wear safety glasses (ordinary glasses type, ordinary glasses type with side plate ,goggletype). Skin and body protection :Wear protection</pre>						
9. Physic	cal and chemical prop	perties				
Shape			: Liquid			
Color			: Beige			
0dor			: Acrylic odor			
pH value			:7~8			
Boiling	point		:100 °C (boiling p	ooint)		
	point •Freezing poir	nt	:No date			
Flash point :None						
Explosive range :No date						
Vapor pressure		:No date				
Density			$:0.9 \sim 1.0$			
Solubili			:Soluble in water			
Vapor de	encity		:No date			
Arrt a in	it is a tank and the second		• NT 1 4			

10. Stability and Reactivity Chemical stability	:Stable in the air at the normal temperature.	
Incompatible materials Reactivity Other hazardous information	No informationNon-inflammable, CO, Nox gas occurs with combustion.Avoid leaving cloth, paper, brush or roller which contains the paint, or its dust to accumulate or to be made round.	
11. Toxicological information As Titanium dioxide Acute toxicity Oral Acute toxicity Skin Carcinogenicity Serious eye damage / irritation	<pre>:Rat LD50 > 20000 mg / Kg :Rabbit approxLD50 > 10000 mg / Kg :IARC group2B :Showed mild irritation in eye irritation tests of rabbits.</pre>	
12. Ecological information Ecotoxicity Persistence/Degradable toxici Bioaccumulative potential Mobility in soil	:No information ty :No information :No information :No information	
In the case of disposal, col received permission of the p company, the waste disposal	relevant laws and regulations. lection and transporters of industrial waste prefectural governor contract with the disposal law (waste disposal and cleaning law) rs and regulations and properly process it.	
completely removing the cont We contracted with industria disposal companies that rece	contaminated containers / packages, after ents the prefectural governor . I waste collection / transportation companies and eived permission of the Waste Disposal Act Eleansing Law) and regulation and laws and	
14. Transport information International regulation UN number UN Class Container grade	: Not applicable : Not applicable : Not applicable	
Rail and road transportation Marine transportation informa Aviation transportation infor	:Refer to applicable law and regulation. :Refer to applicable law and regulation.	

Special	safety	measures
Special	Salety	lieasures

: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. 601 1-(2methoxy2-methyletoxy)2-propanol Contained in the Dipropylene glycol mono methyl ether. No. 75 Ethylene glycol
Fire Service Act	:Not applicable
Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture	Priority Assesment Chemical Substances Ethylene glycol
Law concerning Pollutant Release and Transfer Register	:Not applicable
Poisonous and Deleterious Substances Control Act	:Not applicable
Ship Safety Act	:Not applicable
Civil Aeronautics Act	:Not applicable
Act of Port Regulation	: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) Hadardous substance data book (Maruzen publishing) GHS classification result database. (National Insutitute of Technology and Evaluation)

This information herein is given in good faith in accordance with the data in a variety of technical publication.

It is the use'sresponsibility to determine the suitability of this information for the adoption of necessary safety precautions.

In addition, the information listed here is made based on the latest information by our investigation at the time of creation, but please understand that revision is possible by amendment of laws, regulations or the announcement of new toxicity test result.