SAFETY DATA SHEET

Issued Date 2009/5/12
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1. Identification

* Product name Frame Retardant Paint Thinner

* Reference number 21002

* Company Washin Paint Co.,Ltd.

* Company address 2100-18 Kamiyoshiba Satte-shi Saitama-ken 340-0121 Japan

* Section concerned

* Person in change

* Phone No.

* FAX No.

* Emergency contact

* Product kind

* Principal use

Engineering Department

Takeyuki Kawashima

0480–48–2021

0480–48–2024

Under the contact of the

2. Hazards identification

[Classification]

Hazards	Category	Signal word		
Hazarus	Hazard statement			
Flammahla lisuida	Not classified			
Flammable liquids		·		
A	Not classified			
Acute toxicity Oral		<u>'</u>		
	Classification not possible			
Acute toxicity Dermal	·			
	Not applicable			
Acute toxicity Gasas				
	Not classified			
Acute toxicity Vapours		<u> </u>		
	Not classified			
Acute toxicity Mists				
	Category 2	Warning		
Skin corrosion/irritation	Causes skin irritation.			
	Category 2	Warning		
Serious eye damage/eye irritation	Causes serious eye irritation.	Training .		
	Classification not possible			
Respiratory sensitization	Olassification flot possible			
	Not classified			
Skin sensitization	Not classified			
	Not classified			
Germ cell mutagenicity	Not classified			
	Category 1	Danger		
Carcinogenicity	May cause cancer.	Danger		
		\W:		
Reproductive toxicity	Category 2	Warning		
0 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Suspected of damaging fertility or the			
Specific target organ systemic toxicity	Category 1	Danger		
Single exposure	Causes damage to organs or state all o			
Specific target organ systemic toxicity	Category 1	Danger		
Repeated exposure		if known through prolonged or repeated exposure.		
Aspiration hazard	Category 1	Danger		
	May be fatal if swallowed and enters airways.			
Hazardous to aquatic environment	Category 1	Warning		
Acute	Very toxic to aquatic life.			
Hazardous to aquatic environment	Category 1 Warning			
Chronic	Very toxic to aquatic life with long lasting effects.			
Hazardous to the ozone layer	Classification not possible			
Tiazardous to the ozone layer				
•	es the signal word "Worning" should not an			

^{*} If the signal word "Danger" applies, the signal word "Worning" should not appear.

^{*} For the details with "Specific target organ systemic toxicity", refer to "11.Toxicological information".

[Symbol]

Exclamation mark

Health hazard

Environment







[Precautionary statement]

(Prevention)

- * Obtain and understand special instructions before use.
- * Keep away from ignition sources such as heat/sparks/open flame. No smoking.
- * Store container tightly and avoid release to the environment.
- * Prevent the electro static discharge. Ground a container/carrier receptacle and so on.
- * Use the tools that sparks don't come out.
- * Avoid breathing vapours/mist/spray.
- * Don't eat, drink or smoke when using this product.
- * Wear protective gloves and eye/face protection when it needs.
- * Wash hands thoroughly and gargle after handling.

(Response)

- * In case of fire, use carbon dioxide/powder/foams for extinction.
- * If inhaled: Remove to fresh air and keep at rest in a position comfortable for breathing. Seek medical advice/attention if you feel unwell.
- * If in eyes: Rince cautiously with water, get medical advice/attention.
- * If on skin or cloth: Wash with plenty of soap and water. Take off contaminated clothing and exchange it.
- * If skin irritation occurs, seek medical advice/attention.
- * If exposed or concerned: Get medical attention/advice.

(Strage)

* Store container tightly closed in the place which well-ventilated, cool and child doesn't reach.

(Disposal)

- * Don't dispose contents to the river and the sewage. Dispose after using them up.
- * Dispose container in accordance with local/regional/national regulation. Don't use another purpose.

3. Composition/information on ingradients

Property Mixture
Product kind Thinner

Chemical name	Weight (%)	CAS No.	Chemical structure	Notice duty
mesitylene	2.2	108-67-8	C9H12	0
1,2,4-trimethylbenzene	6	95-63-6	C9H12	0
dichloromethane	40	75-09-2	CH2Cl2	0
mineral spirit	50~60	8052-41-3	_	0
_	_	_	_	_

4. First-aid measures

(When swallowing

- * Without making vomit by force, be rested and have a medical attention.
- * The vomit doesn't make swallow. Get medical attention.

(When inhaling)

- * Do the artificial respiration in case of breathing's being irregular or stopping.
- * The vomit doesn't make swallow.
- * Remove to fresh air and keep at rest in a position comfortable for breathing. Seek medical advice/attention if you feel unwell.

(When adhering to the skin)

- * Wipes up quickly with cloth and washes it off sufficiently using plenty of water and soap. Don't use organic solvent, thinner and so on.
- * If you get damage or feel pain, seek medical advice/attention.

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(When entering eyes)

- * Wash for more than 15 minutes with a plenty of water at once.
- * Get a medical attention as fast as possible.

5. Fire-fighting measures

(Suitable extinguishing media)

* Water (), Carbon dioxide (O), Foams (O), Powder (O), Dry sand (), Other (),

(Specific hazards arising from the chemical)

- * When in contact with the heat, flame, oxidizing reagent, there is a risk of severe fire.
- * When heated, there is a fear of intense bust of container by expansion or resolution.
- * When burning, there is possibility to make carbon monoxide occur.

(Specific extinguishing method)

- * Tell Fire Service the place and the dangerous/hazardous property.
- * Prevent outflow being in water pipe or watercourse.
- * Wear respiratory-protective-equipment and protective-glove.
- * Remove combustibles quickly from the surrounding area.
- * Uses the suitable extinguishing media.
- * Do fire fighting from the windward.

(Special protective equipment and precautions for fire-fighters)

* Wear respiratory-protective-equipment, chemical-defense clothes/glove/boots,/glasses/mask as occasion demands.

6. Accidental release measures

(Personal precautions, protective equipment and emargency prosedures)

- * Lead personnel to the windward from outflow areas.
- * Avoid the inhalation of vapour. Avoid the contact to the skin and eyes. Promote ventilation.
- * Wear protective equipments (gloves, protective mask, apron and goggles).

(Environmental precautions)

- * Prevent outflow being in water pipe or watercourse.
- * When water pipe or watercourse are polluted, contact organs concerned.

(Methods and materials for containment and cleaning up)

- * Remove ignition sources. Prohibit smoking and fire. Use the tools which don't spark.
- * Collects outflow to the container which can be shut, and move it to the safe place.
- * Prevent outflow using dry sand, earth or other imcombustible material, and make absorb residue to collect it.
- * It may use water sprayer to absorb the diffusion of vapour.
- * Dispose wastes based on the regurations concerned.

7. Handling and storage

(Handring: Technical measure)

- * Handle this based on the related laws (Industrial Safety and Health Law, Fire Defense Law, etc.).
- * Forrow the operation-standard, keep working atmosphere below TLV, promote ventilation.
- * When in working, wear antistatic work clothing, shoes.
- * Remove ignition sources, prohibit smoking and fire, Use tools which don't spark.
- * Ground equipments (transport, dip, stirring liquid) and use explosion-proof type electric equipments.
- * After handling, wash hands with soap water. It should wash work clothing separately.

(Handring: Notice)

- * Ground equipments and use explosion-proof type electric equipments.
- * Avoid contact with strong oxidizing reagent.
- * It has a fear of causing a reaction by heating, acidic material and alkaline material.
- * Use the container which has no damage, no corrosion and no breakage.
- * Gather used containers to the decided safekeeping place.

(Storage)

* Store container tightly closed in the place which well-ventilated and cool.

8. Exposure controls/personal protection

Standard control concentration, threshold limit value etc.

(Control parameters e.g. occupational exposure limit values or biological limit values)

Chemical name	Standard control concentration	Tthreshold limit value	ACGIH (TLV)	PRTR
mesitylene	_	25ppm	25ppm	Class 1-297
1,2,4-trimethylbenzene	_	25ppm	25ppm	Class 1-296
dichloromethane	50ppm	50ppm	50ppm	Class 1-186
mineral spirit	_	_	100ppm	_
_	_	_	_	_

(Equipment measure)

- * Set up sealed systems or local ventilation systems.
- * Set up safe shower, bathroom and face washing near the work area, and display the position.
- * Show the signs such like 'NO UNAUTHORIZED ENTRY'.
- * There needs explosion-proof type ventilation equipments/systems.

(Protection measure)

- * As occasion demands, wear following guards appropriately.
 - air-supplied respirator, air SCBA, oxygen SCBA, chemical-cartridge respirator, protective glasses, protective gloves, protective boots, protective clothing,
- * Check protective equipments regularly by the check list.
- * Don't eat, drink or smoke when using this product.
- * Wash hands with soap before eat, drink or smoke.
- * The person who showed the symptom of the asthma once should not contact this chemical because he may cause the same symptom.
- * Contact lens bring about special harm.
 - Don't use soft contact lens because it absorbs irritant and has possibility to concentrate them.
- * Wear chemical-proof type protective gloves and antistatic protective shoes.

9. Physical and chemical properties

(Physical state: Liquid)

Colour	Tran	sparent col	orless	Density	0.97	$g/mL(25^{\circ}C)$	Flash point	_	°C
Odour	Solv	ent odour		PH	Not corre	espond	Ignition point	_	°C
Boiling point L	.ower	40	°C	Solbility	Not sol. 1	in water	Flammability or exp	olosive limit	S
Boiling point L	Jpper	210	°C	Partiton co	efficient n-oc	tanol/water	Lower	0.9	%
Vapour press	sure	58659	Pa (ref.)		No data		Upper	66	%

10. Stability and reactivity

(Chemical stability)

- * The product seems to be stable.
- * It has a possibility of the dangerous/harmful reaction.
- * It reacts to the oxidizing materials.
- * No other reactions were informed.

(Conditions to avoid)

- * Heating, Contact with the avoidance, Ignition source.
- * Degradation product which has dangerous/hazardous property.
- * Vapour of organic solvent.
- * Heat, light, metal powder and peroxide.

11. Toxicological information

Chemical name	Acute toxicity					
Chemical name	Oral	Dermal	Gasas	Vapours		
mesitylene	Not classified	Classification not possible	Not applicable	Classification not possible		
1,2,4-trimethylbenzene	Not classified	Classification not possible	Not applicable	Classification not possible		
dichloromethane	Category 4	Classification not possible	Not applicable	Not classified		
mineral spirit	Not classified	Classification not possible	Not applicable	Classification not possible		
_	-	-	_	-		

Chemical name	Acute toxicity			Respiratory
Grieffical flame	Mists	irritation eye irritation sensitization		sensitization
mesitylene	Not classified	Category 2	Category 2B	Classification not possible
1,2,4-trimethylbenzene	Not classified	Classification not possible	Classification not possible	Classification not possible
dichloromethane	Classification not possible	Category 2	Category 2A	Classification not possible
mineral spirit	Classification not possible	Category 2	Not classified	Classification not possible
_	-	_	-	-

Chemical name	Skin sensitization	Germ cell mutagenicity	Carcinogenicity	Reproductive toxicity
mesitylene	Classification not possible	Classification not possible	Classification not possible	Classification not possible
1,2,4-trimethylbenzene	Classification not possible	Not classified	Classification not possible	Classification not possible
dichloromethane	Classification not possible	Classification not possible	Category 1A	Category 2
mineral spirit	Not classified	Not classified	Classification not possible	Not classified
_	-	_	_	_

Chemical name	Specific target organ syste	Specific target organ systemic toxicity		
Chemical hame	Single exposure	Repeated exposure	Aspiration hazard	
mesitylene	Category 3	Category 1	Category 1	
1,2,4-trimethylbenzene	Category 3	Category 2	Category 1	
dichloromethane	Category 1, 3	Category 1	Classification not possible	
mineral spirit	Category 3	Category 2	Category 1	
_	-	-	-	

^{*} Hazards information is peculiar to the chemicals. It doesn't change according to the content.

12. Ecological information

Chemical name	Hazardous to aqua	Hazardous to aquatic environment			
Chemical name	Acute	Chronic	Ozone layer		
mesitylene	Category 2	Category 2	Classification not possible		
1,2,4-trimethylbenzene	Category 2	Category 2	Classification not possible		
dichloromethane	Category 3	Category 3	Classification not possible		
mineral spirit	Category 1	Category 1	Classification not possible		
_	-	_	-		

^{*} Hazards information is peculiar to the chemicals. It doesn't change according to the content.

* Residual property/resolvability

There are not data as a mixture.

* Creature accumulation characteristics

There are not data as a mixture.

There are not data as a mixture.

13. Disposal consideration

- * Requests disposal to the agency who has solid-waste-treatment license.
- * When disposing container, dispose after removing a content fully.
- * Dispose of contents/container in accordance with local/regional/national regulation.

14. Transport information

(National regulation)

* UN number 1263 * Guideline number 128

* Land transportation Follow the transporting way to be specified in the Industrial Safety and Health Law.

Fire Defense Law and so on.

* Air transportation Follow the transporting way to be specified in the Aviation Law.

* Marine transpotation Follow the transporting way to be specified in the Ship Safety Law.

* Fire Defense Law Not applicable Danger class

(International regulation)

* UN number 1263 * UN proper shipping name PAINT

* UN classification It doesn't correspond to the danger according to the UN recommendation.

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(Special precautions)

- * In case of transportation, carry "transportation notice" or "Yellow Card".
- * Confirm container tightly closed and no leaking before transportation.
- * In case of transportation, fix a container tightly and use buffering one as occasion demands.

15. Regulatory information

* Industrial Safety and Health Law

Dangerous goods

Ordinance on the Prevention of Organic Solvent Poisoning

Ordinance on Prevention of Lead Poisoning

Ordinance on Prevention of Hazards due to Specified Chemical Substances

Listed

Not applicable

Not applicable
Class-3
Not applicable
Applicable

* Pollutant Release and Transfer Register Law

* Poisonous and Deleterious Substances Control Law

* Fire Defense Law Not applicable

* Ship Safety Law Not applicable

* Offensive Odor Control Low Not listed

16. Other information

(Main reference)

- * National Institute of Tecnology and Evaluation Opend data
- * Japan Paint Manufacturers Association

Raw material data base

The guide book for the creating SDS and label [mixture (paint)] Second edition

Model MSDS and label samples [mixture (paint)]

* Japan Industrial Safety and Health Association

The OJT text for the MSDS of mixture (chemicals) by GHS compatible

- * "YOZAI Pocket Book"
- * "KIKEN BOSAI KYUKYU BINRAN"
- * International Chemical Safety Cards (ICSC)
- * SDS of raw materials

(Notice)

- * This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only.
- * It should not therefore be construed as guaranteeing any specific property of the product.
- * In case of use, set a safe conditions for handling.
- * All chemicals have possibility of unknown hazards, so it needs a due attention for handling.
- * Applicable scope of this document is only in Japan.