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SAFETY DATA SHEET

20123

1. Identification

* Product name	Solvent Based Varnish FLAT Ebony
* Reference number	20123
* Company	Washin Paint Co.,Ltd.
* Company address	2100-18 Kamiyoshiba Satte-shi Saitama-ken 340-0121 Japan
* Section concerned	Engineering Department
* Person in change	Takeyuki Kawashima
* Phone No.	0480-48-2021
* FAX No.	0480-48-2024
* Emergency contact	0480-48-2021
* Product kind	Pigment type coloring paint
* Principal use	Wood paint

2. Hazards identification

[Classification]

ssincation					
Hazards	Category	Signal word			
Tiazarus	Hazard statement				
Elemente linuida	Category 3	Warning			
Flammable liquids	flammable liquid and vapour.				
	Not classified				
Acute toxicity Oral					
	Not classified				
Acute toxicity Dermal					
	Not applicable				
Acute toxicity Gasas					
	Not classified				
Acute toxicity Vapours					
• · · · · • • •	Not classified				
Acute toxicity Mists					
	Category 2	Warning			
Skin corrosion/irritation	Causes skin irritation.	_			
	Not classified				
Serious eye damage/eye irritation					
	Not classified				
Respiratory sensitization					
	Category 1	Warning			
Skin sensitization	May cause an allergic skin reaction.				
• • • • • • •	Not classified				
Germ cell mutagenicity					
	Category 2	Warning			
Carcinogenicity	Suspected of cancer.	——————————————————————————————————————			
-	Category 1	Danger			
Reproductive toxicity	May damage fertility or the unborn child.				
Specific target organ systemic toxicity	Category 3	Warning			
Single exposure	May cause respiratory irritation ;or M	ay cause drowsiness and dizziness.			
Specific target organ systemic toxicity	Category 2	Warning			
Repeated exposure		cted, if known through prolonged or repeated exposure.			
· · · ·	Not classified				
Aspiration hazard					
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.				
	Classification not possible				
Hazardous to the ozone layer					

 \ast 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".



[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.
 - * Paint adhered cloth, paint sluge and sprayed dust have the fear of the spontaneous combustion, so be flooded them until it disposes or burns them up every time at work.

(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.

Mixture

(Strage)

Property

* 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

Product kind Pigment type	e coloring paint			
Chemical name	Weight (%)	CAS No.	Chemical structure	Notice duty
pigment	0~1	—	-	-
diacetonealcohol	0~1	123-42-2	C6H12O2	0
cyclohexanone	0~1	108-94-1	C6H10O	0
ethylbenzene	0.32	100-41-4	C8H10	0
1-butanol	0~1	71-36-3	C4H9OH	0
xylene	0.66	1330-20-7	C8H10	0
additive	0~1	-	-	-
1,2,4-trimethylbenzene	1.3	95-63-6	C9H12	0
butanone oxime	1~5	96-29-7	C4H9NO	-
n-butyl acetate	1~5	123-86-4	C6H12O2	0
silica, amourphous, fused	1~5	-	SiO2	-
n-nonane	5~10	111-84-2	C9H20	0
mineral spirit	30~40	8052-41-3	-	0
resin	40~50	-	-	—
_	—	—	-	—

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.
- (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) $% \left({\left({{{\left({{{\left({{{\left({{{c}}} \right)}} \right.} \right.}} \right)}} \right)} \right)$
 - * Liquid and vapour are extremely flammable.
 - If they expose to heat, flame and an oxidizer, there is danger of intense fire.
 - st When heated, there is a fear of intense bust of container by expansion or resolution.
 - $\boldsymbol{*}$ When burning, there is possibility to make carbon monoxide occur.
- (Specific extinguishing method)
 - \ast 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.
- $\boldsymbol{*}$ Gather used containers to the decided safekeeping place.

(Storage)

- * Store container tightly closed in the place which well-ventilated and cool.
- * Follow the Fire Defense Law and so on because of flammable liquid.

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
pigment	—	—	—	—
diacetonealcohol	—	—	50ppm	—
cyclohexanone	20ppm	25ppm	25ppm	—
ethylbenzene	20ppm	50ppm	20ppm	Class 1-53
1-butanol	25ppm	50ppm	20ppm	—
xylene	50ppm	50ppm	100ppm	Class 1-80
additive	—	—	-	—
1,2,4-trimethylbenzene	—	25ppm	25ppm	Class 1-296
butanone oxime	—	—	-	—
n-butyl acetate	150ppm	100ppm	150ppm	—
silica, amourphous, fused	—	—	-	—
n-nonane	—	200ppm	200ppm	—
mineral spirit	-	—	100ppm	-
resin	-	—	-	-
_	-	—	-	-

[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 'INFRAMABLES' or 'NO UNAUTHORIZED ENTRY'.
- * When handling flammable liquid, 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 s	tate: Li	quid)							
Colour	Indica	te in the pr	oduct name	Density	0.93	g∕mL(25°C)	Flash point	40	°C
Odour	Solve	ent odour		PH	Not corr	espond	Ignition point	210	°C
Boiling point	Lower	130	°C	Solbility	Not sol.	In water	Flammability or exp	losive limit	.s
Boiling point	Upper	230	°C	Partiton co	efficient n-oc	tanol/water	Lower	1	%
Vapour pres	ssure	1000	Pa (ref.)		No data		Upper	7	%

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.
- * Paint adhered cloth, paint sluge and sprayed dust have the fear of spontaneous combustion when it oxidize.

(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	Acute toxicity				
	Oral	Dermal	Gasas	Vapours		
pigment	Classification not possible	Classification not possible	Not applicable	Classification not possible		
diacetonealcohol	Not classified	Not classified	Not applicable	Classification not possible		
cyclohexanone	Category 4	Category 3	Not applicable	Category 3		
ethylbenzene	Not classified	Not classified	Not applicable	Category 4		
1-butanol	Not classified	Not classified	Not applicable	Classification not possible		
xylene	Not classified	Category 4	Not applicable	Not classified		
additive	Classification not possible	Classification not possible	Not applicable	Classification not possible		
1,2,4-trimethylbenzene	Not classified	Classification not possible	Not applicable	Classification not possible		
butanone oxime	Category 4	Category 4	Not applicable	Classification not possible		
n-butyl acetate	Not classified	Not classified	Not applicable	Classification not possible		
silica, amourphous, fused	Classification not possible	Classification not possible	Not applicable	Classification not possible		
n-nonane	Classification not possible	Classification not possible	Not applicable	Category 4		
mineral spirit	Not classified	Classification not possible	Not applicable	Classification not possible		
resin	Not classified	Not classified	Not applicable	Not classified		
	-	-	-	-		

Chemical name	Acute toxicity	Skin corrosion/	Serious eye damage/	Respiratory
Chemical hame	Mists	irritation	eye irritation	sensitization
pigment	Classification not possible	Classification not possible	Classification not possible	Classification not possible
diacetonealcohol	Classification not possible	Category 2	Category 2A	Classification not possible
cyclohexanone	Not classified	Category 2	Category 2A	Classification not possible
ethylbenzene	Classification not possible	Not classified	Category 2B	Classification not possible
1-butanol	Classification not possible	Category 2	Category 2A	Classification not possible
xylene	Classification not possible	Category 2	Category 2	Classification not possible
additive	Classification not possible	Classification not possible	Classification not possible	Classification not possible
1,2,4-trimethylbenzene	Not classified	Classification not possible	Classification not possible	Classification not possible
butanone oxime	Not classified	Not classified	Category 2A	Classification not possible
n-butyl acetate	Classification not possible	Not classified	Category 2B	Classification not possible
silica, amourphous, fused	Classification not possible	Classification not possible	Classification not possible	Classification not possible
n-nonane	Not classified	Category 2	Category 2B	Classification not possible
mineral spirit	Classification not possible	Category 2	Not classified	Classification not possible
resin	Not classified	Not classified	Not classified	Not classified
	-	-	-	-

Chemical name	Skin sensitization	Germ cell mutagenicity	Carcinogenicity	Reproductive toxicity
pigment	Classification not possible	Classification not possible	Classification not possible	Classification not possible
diacetonealcohol	Classification not possible	Classification not possible	Classification not possible	Category 2
cyclohexanone	Category 1	Category 2	Not classified	Category 2
ethylbenzene	Classification not possible	Not classified	Category 2	Category 1B
1-butanol	Classification not possible	Classification not possible	Classification not possible	Classification not possible
xylene	Classification not possible	Not classified	Not classified	Category 1B
additive	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
butanone oxime	Category 1	Not classified	Category 2	Not classified
n-butyl acetate	Classification not possible	Classification not possible	Classification not possible	Classification not possible
silica, amourphous, fused	Classification not possible	Classification not possible	Classification not possible	Classification not possible
n-nonane	Classification not possible	Classification not possible	Classification not possible	Classification not possible
mineral spirit	Not classified	Not classified	Classification not possible	Not classified
resin	Not classified	Not classified	Not classified	Not classified
-	-	-	-	-

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Chemical name	Specific target organ system	A	
	Single exposure	Repeated exposure	Aspiration hazard
pigment	Classification not possible	Classification not possible	Classification not possible
diacetonealcohol	Category 2, 3	Classification not possible	Classification not possible
cyclohexanone	Category 1, 2, 3	Category 1	Classification not possible
ethylbenzene	Category 3	Category 2	Category 1
1-butanol	Category 3	Category 1	Classification not possible
xylene	Category 1, 3	Category 1	Category 1
additive	Classification not possible	Classification not possible	Classification not possible
1,2,4-trimethylbenzene	Category 3	Category 2	Category 1
butanone oxime	Classification not possible	Category 1	Classification not possible
n-butyl acetate	Category 3	Classification not possible	Classification not possible
silica, amourphous, fused	Classification not possible	Classification not possible	Classification not possible
n-nonane	Category 2, 3	Classification not possible	Category 1
mineral spirit	Category 3	Category 2	Category 1
resin	Not classified	Not classified	Not classified
_	_	-	-

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

12. Ecological information

Chemical name	Hazardous to aquatic environment				
Chemical name	Acute	Chronic	Ozone layer		
pigment	Classification not possible	Classification not possible	Classification not possible		
diacetonealcohol	Not classified	Not classified	Classification not possible		
cyclohexanone	Not classified	Not classified	Classification not possible		
ethylbenzene	Category 1	Category 2	Classification not possible		
1-butanol	Not classified	Not classified	Classification not possible		
xylene	Category 2	Category 2	Classification not possible		
additive	Classification not possible	Classification not possible	Classification not possible		
1,2,4-trimethylbenzene	Category 2	Category 2	Classification not possible		
butanone oxime	Category 3	Not classified	Classification not possible		
n-butyl acetate	Category 3	Not classified	Classification not possible		
silica, amourphous, fused	Classification not possible	Classification not possible	Classification not possible		
n-nonane	Category 1	Category 1	Classification not possible		
mineral spirit	Category 1	Category 1	Classification not possible		
resin	Not classified	Not classified	Classification not possible		
—	-	-	-		

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

* Residual property/resolvability

* Creature accumulation characteristics

* Movement degree in the soil

There are not data as a mixture. 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 Follow the transporting way to be specified in the Industrial Safety and Health Law. * Land transportation
- 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 Annex class 4-2 Danger class Ш

20123

(International regulation)

- * UN number
- * UN proper shipping name
- * UN classification Class 3 Flammable liquid

(Special precautions)

* In case of transportation, carry "transportation notice" or "Yellow Card".

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PAINT

- * 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	Flammable liquid
Ordinance on the Prevention of Organic Solvent Poisoning	Class-3
Ordinance on Prevention of Lead Poisoning	Not applicable
Ordinance on Prevention of Hazards due to Specified Chemical Substances	Not applicable

Listed

Listed

Flammable liquid

- * Pollutant Release and Transfer Register Law
- * Poisonous and Deleterious Substances Control Law
 * Fire Defense Law
 Annex class 4–2
- * Ship Safety Law
- * Offensive Odor Control Low

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)]
 - 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.