SAFETY DATA SHEET



WEATHERFLEX 500 WHITE

Section 1. Identif	fication
Product identifier	: WEATHERFLEX 500 WHITE
Product code	: FWF50X001XXX
Other means of identification	: Not available.
Product type	: Liquid.
Relevant identified uses of Identified uses Not applicable.	f the substance or mixture and uses advised against
Uses advised against Not applicable.	
Supplier's details	: Berger Paints Singapore Pte Ltd 22 Benoi Sector, Singapore - 629854 Email: Berger@bergeronline.com.sg Tele: +65 6801 7000 Fax: +65 6265 6356
Emergency telephone number (with hours of operation)	: Tele: +65 9636 4852
Section 2. Hazar	ds identification

Classification of the substance or mixture	: Not classified.
	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 76%

GHS label elements, including precautionary statements

Signal word	: No signal word.
Hazard statements	: No known significant effects or critical hazards.
Precautionary statements	
Prevention	: Not applicable.
Response	: Not applicable.
Storage	: Not applicable.
Disposal	: Not applicable.

Other hazards which do not : None known. result in classification

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of	: Not available.
identification	

Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
propane-1,2-diol	≤5	57-55-6
diuron (ISO)	≤0.3	330-54-1

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Chemical formula	: Not applicable
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Section 4. First aid measures

Description of necessary first aid measures

Eye contact	 Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	 Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/	<u>symptoms</u>
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.

Section 5. Fire-fighting measures

Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	 Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.	
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".	
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).	
Methods and materials for containment and cleaning up			
Small spill	:	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.	

Large spill	: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal
	emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling	L	
Protective measures	:	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Date of issue/Date of revision

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
	Workplace Safety and Health Act (Singapore, 2/2006). PEL (long term): 10 mg/m ³ 8 hours.

Biological exposure indices

No exposure indices known.

Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

individual proteotion medoa	
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body protection	 Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	 Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
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Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

<u>Appearance</u>		
Physical state	: Liquid.	
Color	: Not availabl	e.
Odor	: Not availabl	e.
Odor threshold	: Not availabl	e.
рН	: Not availabl	e.
Melting point/freezing point	: Not availabl	e.
Date of issue/Date of revision	: 11/22/2024	Date of

Section 9. Physical and chemical properties and safety characteristics

Boiling point, initial boiling : Not available. point, and boiling range

Flash point

	Closed cup				Open cup		
Ingredient name	°C	°F	Method	°C	°F	Method	
2-(2-butoxyethoxy)ethanol	78	172.4					
Paraffin oils (petroleum), catalytic dewaxed heavy				98 to 344	208.4 to 651.2	EN ISO 2719	
propane-1,2-diol	99	210.2					
isobutyric acid, monoester with 2,2,4-trimethylpentane-1,3-diol	122	251.6	ASTM 3278				

Flammability

: Not available.

Lower and upper explosion : Not available.

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limit/flammability limit Vapor pressure

	Va	por Pressure	e at 20°C	1	/apor pressu	re at 50°C
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
ammonia	360.02925	48				
water	17.5	2.3				
propane-1,2-diol	0.15	0.02	EU A.4			
Paraffin oils (petroleum), catalytic dewaxed heavy	<0.07501	<0.01	ASTM D 5191			
2-(2-butoxyethoxy)ethanol	0.022	0.0029				
isobutyric acid, monoester with 2,2,4-trimethylpentane-1,3-diol	0.0098	0.0013	EU A.4			
diuron (ISO)	0.00000006	0.000000008	OECD 104	0.0000013	0.00000017	OECD 104
elative vapor density	: Not avail	able.				
elative density	: Not avail	able.				
ensity	: 1.34 g/cn	n³ [25°C (77°	F)]			
olubility in water	: Not avail	able.				
liscible with water	: Yes.					
artition coefficient: n- ctanol/water	: Not appli	cable.				
uto-ignition temperature	:					
Ingredient name		°C	°F	M	ethod	
2-(2-butoxyethoxy)ethanol		210	410	DI	N 51794	
propane-1,2-diol		371	699.8			
isobutyric acid, monoester with 2,2,4-trimethylpentane-1,3-diol		393	739.4			
diuron (ISO)		401	753.8	FI	J A.16	

Decomposition temperature : Not available. Viscosity

: Not available.

Particle characteristics

Median particle size : Not applicable.

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SADT	: Not available.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity				
Product/ingredient name	Result	Species	Dose	Exposure
propane-1,2-diol	LD50 Dermal	Rabbit	20800 mg/kg	-
diuron (ISO)	LD50 Oral LD50 Dermal	Rat Rat	20 g/kg >5 g/kg	-
	LD50 Oral	Rat	1 g/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
propane-1,2-diol	Eyes - Mild irritant	Rabbit	-	100 mg	-
• •	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
	Skin - Mild irritant	Human	-	168 hours	-
				500 mg	
	Skin - Mild irritant	Woman	-	96 hours 30	-
				%	
	Skin - Moderate irritant	Child	-	96 hours 30	-
				% C	
	Skin - Moderate irritant	Human	-	72 hours 104	-
				mg l	

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

<u>Specific target organ toxicity (single exposure)</u> Not available.

Specific target organ toxicity (repeated exposure)

Product/ingredient name			Category	Route of exposure	Target organs
diuron (ISO)			Category 2	-	-
Aspiration hazard Not available.			I		
Information on the likely routes of exposure	:	Not available.			
Potential acute health effec	<u>ts</u>				
Eye contact	:	No known significan	t effects or critical haz	ards.	
Inhalation	:	No known significan	t effects or critical haz	ards.	
Skin contact	:	No known significan	t effects or critical haz	ards.	
Ingestion	:	No known significan	t effects or critical haz	ards.	
Symptoms related to the ph	<u>iysi</u>	cal, chemical and to	xicological character	<u>ristics</u>	
Eye contact	:	No specific data.			
Inhalation	:	No specific data.			
Skin contact	:	No specific data.			
Ingestion		No oposifio data			
ingeotion	1.1	No specific data.			
-			fects from short and	long term expos	ure
-			fects from short and	long term expos	<u>ure</u>
Delayed and immediate effe	<u>ects</u>		fects from short and	<u>long term expos</u>	<u>ure</u>
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Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
propane-1,2-diol	20000	20800	N/A	N/A	N/A
diuron (ISO)	1000	N/A	N/A	N/A	N/A

Section 12. Ecological information

Toxicity				
Product/ingredient name	Result	Species	Exposure	
propane-1,2-diol	Acute EC50 >110 ppm Fresh water Acute LC50 1020000 μg/l Fresh water	Daphnia - <i>Daphnia magna</i> Crustaceans - Ceriodaphnia dubia	48 hours 48 hours	
diuron (ISO)	Acute LC50 710000 μg/l Fresh water Acute EC50 7.2 mg/l Fresh water	Fish - <i>Pimephales promelas</i> Daphnia - <i>Daphnia magna</i> - Neonate	96 hours 48 hours	
	Acute LC50 380 μg/l Fresh water	Crustaceans - <i>Gammarus</i> <i>lacustris</i>	48 hours	
	Acute LC50 500 μg/l Fresh water Chronic NOEC 26.4 ppb	Fish - <i>Morone saxatilis</i> - Larvae Fish - <i>Pimephales promelas</i>	96 hours 60 days	

Persistence/degradability

Not available.

Bioaccumulative potential

ient name LogPow BCF Potential
-1.07 - Low 2.84 5.2 Low

Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods	: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non recyclable
	any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

UN	IMDG	IATA	ADR/RID	ADN
Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
	Not regulated.	Not regulated. Not regulated.	Not regulated. Not regulated. Not regulated.	Not regulated. Not regulated. Not regulated. Not regulated. - - - - - - - - - - - - - - - -

Section 14. Transport information

Environmental	No.	No.	No.	No.	No.
hazards					

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available. to IMO instruments

Section 15. Regulatory information

None. International regulations Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed. Montreal Protocol Not listed. Stockholm Convention on Persistent Organic Pollutants Not listed. Stockholm Convention on Persistent Organic Pollutants Not listed. Rotterdam Convention on Prior Informed Consent (PIC) Not listed. UNECE Aarhus Protocol on POPs and Heavy Metals Not listed. Inventory list Australia : Not determined. Canada : Not determined. China : Not determined. Lurasian Economic Union : Russian Federation inventory: Not determined. Japan : Japan inventory (ISCL): Not determined. New Zealand : Not determined. Philippines : Not determined. Republic of Korea : Not determined. Taiwan : Not determined. Turkey : Not determined. Turkey : Not determined. Turkey : Not determined. Turkey : Not determined. Yout determined. : Not det	Singapore - hazardous chem	ica	<u>Is under government control</u>
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Thailand: Not determined.Turkey: Not determined.United States: Not determined.	Republic of Korea	:	Not determined.
Turkey: Not determined.United States: Not determined.	Taiwan	:	Not determined.
United States : Not determined.	Thailand	1	Not determined.
	Turkey	:	
Viet Nam : Not determined.	United States	:	Not determined.
	Viet Nam	1	Not determined.

Section 16. Other information

History

Date of printing	: 11/22/2024
Date of issue/Date of revision	: 11/22/2024
Date of previous issue	: 3/3/2021
Version	: 2.1

Section 16. Other information

Key to abbreviations	: ATE = Acute Toxicity Estimate
	BCF = Bioconcentration Factor
	GHS = Globally Harmonized System of Classification and Labelling of Chemicals
	IATA = International Air Transport Association
	IBC = Intermediate Bulk Container
	IMDG = International Maritime Dangerous Goods
	LogPow = logarithm of the octanol/water partition coefficient
	MARPOL = International Convention for the Prevention of Pollution From Ships,
	1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
	N/A = Not available
	SGG = Segregation Group
	UN = United Nations
Procedure used to derive	the classification

Procedure used to derive the classification

Not classified.

References : Not available.

✓ Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.