

MATERIAL SAFETY DATA SHEET

Verde Grass-Stick Adhesive

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Revision No. 3

1) Identification of the Substance/Preparation and of the Company/Undertaking

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Product Name: Verde Grass-Stick
Use of Substance/Preparation: Adhesive

2) Hazards Identification

Main Hazards: Harmful by inhalation. Irritating to eyes, respiratory system and skin. May cause sensitisation by inhalation and skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3) Composition/Information on Ingredients

Hazardous Ingredients: TRIPHENYL PHOSPHITE 2.800%
EINECS: 202-908-4 CAS: 101-02-0
[Xi] R36/38; [N] R50/53
DIPHENYLMETHANE - 4,4'-DI-ISOCYANATE 54.000%
EINECS: 202-966-0 CAS: 101-68-8
[Xn] R20; [Xi] R36/37/38; [Sens.] R42/43

4) First Aid Measures (Symptoms)

Skin Contact: There may be irritation and redness at the site of contact. Onset of symptoms may be delayed.

Eye Contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing. Onset of symptoms may be delayed.

5) First Aid Measures (Action)

Skin Contact: Remove from skin with paper or towel. Wash effected area thoroughly with soap and water. Seek medical advice if symptoms persist.

Eye Contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Wash out mouth with water. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor if symptoms persist.

5) Fire-Fighting Measures

- Extinguishing Media:** Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.
- Exposure Hazards:** In combustion emits toxic fumes.
- Protection of Fire-Fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6) Accidental Release Measures

- Personal Precautions:** Refer to Section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.
- Environmental Precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.
- Clean-up Procedures:** Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

7) Handling and Storage

- Handling Requirements:** Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air.
- Storage Conditions:** Store in cool, well ventilated area. Keep container tightly closed.

8) Exposure Controls/Personal Protection

Workplace Exposure Limits

WEL (8 hr exposure limit): 0.02mg/m³

WEL (15 min exposure limit): 0.07mg/m³

Hazardous Ingredients: DIPHENYLMETHANE - 4,4'-DI-ISOCYANATE

WEL (8 hr exposure limit): 0.02mg/m³

WEL (15 min exposure limit): 0.07mg/m³

Engineering Measures: Ensure there is sufficient ventilation of the area.

Respiratory Protection: In case of insufficient ventilation wear suitable respiratory equipment.

Hand Protection: Avoid skin contact. For repeated exposure use Viton or 4H chemical gloves.

Eye Protection: Safety glasses. Ensure eye bath is to hand.

Skin Protection: Protective clothing.

9) Physical and Chemical Properties

- State:** Liquid
- Colour:** Black
- Odour:** Characteristic odour
- Evaporation Rate:** Slow
- Oxidising:** Non-oxidising (by EC criteria)
- Solubility in Water:** Reacts with water
- Viscosity:** Viscous
- Relative Density:** 1.40

10) Stability and Reactivity

Stability:	Stable under normal conditions.
Conditions to Avoid:	Heat.
Materials to Avoid:	Strong oxidising agents. Strong acids.
Hazardous/Decomp. Products:	In combustion emits toxic fumes.

11) Toxicological Information

Hazardous Ingredients:	TRIPHENYL PHOSPHITE IPR RAT LD50 250mg/kg ORL MUS LD50 1080mg/kg ORL RAT LD50 444mg/kg DIPHENYLMETHANE - 4,4'-DI-ISOCYANATE ORL MUS LD50 2200mg/kg ORL RAT LD50 9200mg/kg
Chronic Toxicity:	May cause sensitisation by skin contact.
Routes of Exposure:	Refer to Section 4 of SDS for routes of exposure and corresponding symptoms.

12) Ecological Information

Mobility:	Readily absorbed into soil.
Persistence and Degradability:	Biodegradable in part only.
Bioaccumulative Potential:	No bioaccumulation potential.

13) Disposal Considerations

Disposal Operations:	Arrange for disposal by a licenced waste disposal company.
Disposal of Packaging:	Arrange for disposal by a licenced waste disposal company.
NB:	The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14) Transport Information

ADR/RID

UN No:	3082	ADR Class:	9
Packing Group:	III	Classification Code:	M6
Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.		
Labelling:	9	Hazard ID No:	90

IMDG/IMO

UN No:	3082	Class:	9
Packing Group:	III	EmS:	F-A,S-F
Marine Pollutant:	-		
Labelling:	9		

IATA/ICAO

UN No:	3082	Class:	9
Packing Group:	III		
Packing Instructions:	914		
Labelling:	9		

15) Regulatory Information

Hazard Symbols: Dangerous for the environment
Harmful



Risk Phrases: R20: Harmful by inhalation.
R36/37/38: Irritating to eyes, respiratory system and skin.
R42/43: May cause sensitisation by inhalation and skin contact.
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases: S23: Do not breathe vapour.
S51: Use only in well-ventilated areas.
S24: Avoid contact with skin.
S37: Wear suitable gloves.
S45: In case of accident, or if you feel unwell, seek medical advice immediately (show the label where possible).
S61: Avoid release to the environment. Refer to special instructions/safety data sheets.
S63: In case of accident by inhalation, remove casualty to fresh air and keep at rest.

Precautionary Phrases: Contains isocyanates. See information supplied by the manufacturer.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16) Additional Information

Risk Phrases used in s.3: R36/38: Irritating to eyes and skin.
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R20: Harmful by inhalation.
R36/37/38: Irritating to eyes, respiratory system and skin.
R42/43: May cause sensitisation by inhalation and skin contact.

Legal Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

This product should be used as directed by Verde Sports Ltd. For further information consult the application data sheet.

This Safety Data Sheet was compiled using the current safety information supplied by the distributors of the component materials. This leaflet may contain inappropriate information under particular conditions of use.