

DETAILED SAFETY DATA SHEET

SOLIDFLEX TIC



1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

<i>Product Name</i>	: SOLIDFLEX TIC
<i>Intended Use</i>	: High Performance, Insulating Polymerised Waterproofing Coating
<i>Manufacturer</i>	: Solid Green Tech Solutions Sdn. Bhd. Lot 772 (10-14), Jalan Subang 4 Kawasan Perindustrian Sg. Penaga 47620 Subang Jaya, Selangor, Malaysia
<i>Emergency Phone Number</i>	: +(60) 3 8081 4777 / 4776
<i>Fax Numbers</i>	: +(60) 3 8081 4771

2. HAZARDS IDENTIFICATION

Hazard Classification : Non-hazardous substance. Non-dangerous goods. According to the Criteria of NOHSC and the ADG Code.

Hazard Category : None allocated as non hazardous.

Risk Phrases : None allocated as non hazardous.

Safety Phrases : None allocated as non hazardous.

Warning Statement : No particular hazards associated with this product.

3. COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE NAME	PROPORTION	CAS NUMBER
Water based Polythane dispersion		
Light weight microspheres	< 90%	Proprietary
Surfactants, Dispersants, etc.	< 10%	Various
Ammonia	< 0.5%	1336-21-6
Water	to 100%	

4. FIRST-AID MEASURES

First Aid is not generally required. If in doubt, contact a poisons information centre or a doctor.

Eyes : Flush with water.

Skin : Avoid prolonged contact.

Advice to Doctor : Treat symptomatically.

DETAILED SAFETY DATA SHEET

SOLIDFLEX TIC

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media : Use water, dry chemical, carbon dioxide or foam.

Unusual Fire and Explosion Hazards : No particular fire and explosion hazards associated with this product.

Warning Statement : Product will burn under fire conditions, after the evaporation of the water component.

Hazards from Combustion Products : Under fire conditions, toxic fumes may be emitted. In extreme heat oxides of carbon and sulphur dioxide gas may be released.

Precautions for Fire Fighters and Special Protective Equipment : Breathing apparatus will be required to protect against the hazards from combustion products under extreme heat.

Hazchem Code : None allocated. Flammability: This material is not flammable.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures : Avoid contact with skin and eyes. Material may be slippery when spilt. Walk cautiously. Ventilate area.

Dangerous Goods : Not applicable.

Methods and Materials for Containment and Clean-up Procedures : In case of gross spillage wear protective equipment to prevent skin and eye contact. Bund area using dry sand or other inert materials to prevent run off into drains and waterways. Pump or scoop any free liquid into an appropriate container for disposal. Clean up spill area with absorbent dry sand, vermiculite or other inert material. Collect and seal in properly labelled container(s) for disposal as per local regulations. Do not flush to drains, waterways or sewers.

7. HANDLING AND STORAGE

Precautions for Safe Handling : Avoid direct contact with eyes or prolonged contact skin. Wear appropriate protective equipment to prevent eye contact. Handle and use in accordance with good occupational hygiene and safety practice.

Conditions for Safe Storage : Store in an area that is cool, dry and out of direct sunlight with adequate ventilation. Store away from strong oxidising agents, strong alkalis and strong acids. Store away from materials or products which react with water. Keep containers closed, when not using the product. Storage in original containers is recommended. Store away from heat sources. Avoid extreme temperatures (i.e. $<5^{\circ}\text{C}$ or $>35^{\circ}\text{C}$)

Note: Should freezing occur, the product should be thawed slowly. Keep containers sealed when not

DETAILED SAFETY DATA SHEET

SOLIDFLEX TIC

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National Exposure Standards : No exposure standards are available for this product; however, the following exposure standards have been assigned by the National Occupational Health & Safety Commission (NOHSC) to the following components of the product:

AMMONIA, AQUEOUS SOLUTION (Below Cut-off <0.5%) (NOHSC)

[TWA] 25 ppm 17 mg / mL

[STEL] 35 ppm 24 mg / mL

Biological Limit Values : Not known.

Engineering Controls : Maintain adequate ventilation at all times. In most circumstances natural ventilation systems are adequate.

Personal Protection Equipment : Eye / Face Protection: Safety glasses with side shields, goggles or full-face shield as appropriate are recommended. Final choice of appropriate eye/face protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken.

Respiratory Protection : Avoid breathing of vapours / mists; ensure adequate ventilation. Respiration is generally unnecessary; unless working with spray applying (airbrush equipment or some other form of atomizing spray equipment). Where breathing apparatus is required, use either respirator with organic / ammonia cartridge, or a Self-Contained Breathing Apparatus (SCBA) with positive air supply.

9. PHYSICAL AND CHEMICAL PROPERTIES

Color	: White color
Surface Drying Time	: 25 ~ 30 minutes @ 30 °C
Over Coating Time	: 3 ~ 4hours
Service Temperature	: 5 ~ 45 °C
Hardness Shore A	: 65
Water Penetration	: No water penetration
UV Exposure 2000hours	: No
Thermal Conductivity	: 0.09 W / M °C
Heat Reflectance	: > 99%
Emittance	: 0.89

10. STABILITY AND REACTIVITY

Chemical Stability : Stable under normal storage and handling conditions.

Hazardous Decomposition Products : Under fire conditions, toxic fumes may be emitted. In extreme heat oxides of carbon and sulphur dioxide gas may be released.

Hazardous Reactions : Hazardous polymerization will not occur.

Incompatible Materials : Reacts with substances which are incompatible with water.

Conditions to Avoid : Avoid substances which are incompatible with water. Avoid extreme temperatures (ie <5°C or >35°C)

DETAILED SAFETY DATA SHEET

SOLIDFLEX TIC

11. TOXICOLOGICAL INFORMATION

No adverse health effects are expected, if the product is handled in accordance with this Material Safety Data Sheet and the product label. Symptoms and effects that may arise if the product is mishandled and overexposure occurs are:

Acute Health Effects

Ingested : May cause irritation to mouth, throat and stomach with effects including mucous build up, irritation to the tongue and lips and pains in the stomach, which may lead to nausea, vomiting and diarrhoea.

Eye : Will cause irritation to the eyes, with effects including tearing, pain, and blurred vision.

Skin : May cause irritation to the skin on prolonged contact, with effects including redness, itchiness and rash.

Inhaled : In extreme cases (due to lack of adequate ventilation) may cause irritation to the nose, throat and respiratory system with effects including dizziness, headache.

Chronic Health Effects : In some susceptible individuals possible dermatitis may occur after repeated or prolonged skin contact.

12. ECOLOGICAL INFORMATION

Ecotoxicity : Not known.

Mobility : Not known.

Persistence / Degradability : Not known.

Avoid contaminating waterways.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method : Dispose of dry product to usual/household waste stream. Small amounts of wet paint can be disposed of in usual waste stream however large amounts of wet product should be disposed of by a licensed contractor.

Container Handling and Disposal : When containers are empty, residue can be washed out and the containers disposed of via general / household recycling stream. If the contents of the container are left to dry out, the residual product can be peeled from the container (may need to be soaked in water for a day or two) and disposed of to usual / household waste stream, while the containers are disposed of via general / household recycling stream.

DETAILED SAFETY DATA SHEET

SOLIDFLEX TIC

14. TRANSPORT INFORMATION

UN Number : None allocated

UN Proper Shipping Name : None allocated

Dangerous Goods Class : None allocated

Subsidiary risk : None allocated

Packing Group : None allocated

Hazchem Code : None allocated

Road and Rail Transport (ADG) : Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code) for transport by road and rail.

Marine Transport (IMO/IMDG) : Not classified as a Dangerous Good according to the International Maritime Organization Rules (Maritime Dangerous Goods Code - IMDG Code) for transport by sea.

Air Transport (ICAO-IATA) : Not classified as a Dangerous Good according to the International Civil Aviation Organization (ICAO) and International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air. Note: May vary from country to country.

15. REGULATORY INFORMATION

SUSDP : Not scheduled

Inventory Status : Australia (AICS) All ingredients are on the inventory or exempt from listing. United States (TSCA) All ingredients are on the inventory or exempt from listing. ort of Dangerous Goods by Road and Rail, (ADG Code)

5 of 5



**SOLID GREEN TECH
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