

DETAILED SAFETY DATA SHEET

SOLIDPRO



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

Product Name	: SOLIDPRO
Intended Use	: A High Strength Acrylic Polymer Coating for Concrete and Metal
Manufacturer	: Solid Green Tech Solutions Sdn. Bhd. Lot 772 (10-14), Jalan Subang 4 Kawasan Perindustrian Sg. Penaga 47620 Subang Jaya, Selangor, Malaysia
Emergency Phone Number	: +(60) 3 8081 4777 / 4776
Fax Numbers	: +(60) 3 8081 4771

2. HAZARDS IDENTIFICATION

GHS Classification :

Physical Hazard

Flammable Hazard	Category 3
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Health Hazard

Skin corrosion/irritation	Category 2
Serious eye damage/irritation	Category 2
Germ cell mutagenicity	Category 1
Carcinogenicity	Category 1

Specific target organ toxicity :

- Single exposure	Category 1
- Repeated exposure	Category 1
Asphyxiation hazard	Category 1

Environmental Hazard

Not classified as an environmental hazard under GHS criteria

GHS Pictogram



Signal Word

Danger

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Hazard statements

H226 : Flammable liquid and vapour
H304 : May be fatal if swallowed and enters airways
H315 : Causes skin irritation
H319 : Causes serious eye irritation
H340 : May cause genetic defects
H350 : May cause cancer
H370 : Causes damage to organs
H372 : Causes damage to organs through prolonged or repeated exposure

Precautionary statements

P201 : Obtain special instructions before use
P202 : Do not handle until all safety precautions have been read and understood
P210 : Keep away from heat / sparks / open flames / hot surfaces – No smoking
P233 : Keep container tightly closed
P240 : Ground / bond container and receiving equipment
P241 : Use explosion-proof electrical / ventilating / light / equipment
P242 : Use only non-sparking tools
P243 : Take precautionary measures against static discharge
P260 : Do not breathe dust / fume / gas / mist / vapours / spray
P264 : Wash hands thoroughly after handling
P270 : Do not eat, drink or smoke when using this product
P280 : Wear protective gloves / protective clothing / eye protection / face protection
P281 : Use personal protective equipment as required

Response

P314 : Get medical advice / attention if you feel unwell
P321 : Specific treatment (see Section 4 of SDS)
P331 : Do NOT induce vomiting
P362 : Take off contaminated clothing and wash before reuse
P301 + 310 : IF SWALLOWED : Immediately call a POISON CENTER or doctor / physician
P302 + 352 : IF ON SKIN: Wash with soap and water
P307 + 311 : IF exposed : Call a POISON CENTER or doctor / physician
P308 + 313 : IF exposed or concerned : Get medical advice / attention
P332 + 313 : If skin irritation occurs : Get medical advice / attention
P337 + 313 : If eye irritation persists : Get medical advice / attention
P370 + 378 : In case of fire : Use appropriate media for extinction
P303 + 361 + 353 : IF ON SKIN (or hair) : Remove / Take off immediately all contaminated clothing. Rinse skin with water/shower
P305 + 351 + 338 : IF IN EYES : Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing

Storage

P405 : Store locked up
P403 + 235 : Store in a well ventilated place. Keep cool
P501 : Dispose of contents/container to appropriate waste site or reclaimer in accordance with local or national regulations

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances

Substances	CAS No.	%
Thermoplastic acrylic polymer	-	10-21
Mineral spirits	8052-41-3	7-15
Xylene	1330-20-7	3-7
Low boiling point naphtha	64742-95-6	1-3
Substances determined to be non-hazardous		Balance 100%

4. FIRST-AID MEASURES

INHALATION

- > Move person to fresh air and call for medical assistance immediately.
- > If not breathing, give artificial respiration, if breathing is difficult, give oxygen. Keep at rest.

SKIN CONTACT

- > In case of contact, immediately flush skin with large amounts of water and soap while removing contaminated clothing and shoes.
- > If irritation persists, get medical attention.

EYE CONTACT

- > Immediately flush eyes with large amounts of water until irritation subsides.
- > Remove contact lens.
- > Obtain medical attention, preferably by an ophthalmologist, immediately.

INGESTION

- > DO NOT induce vomiting unless directed to do so by a medical personnel. Never give anything by mouth to an unconscious person. Keep at rest. Get medical attention immediately.

5. FIRE FIGHTING MEASURES

SUITABLE FIRE EXTINGUISHING MEDIA

- > Alcohol - resistant foam, Carbon dioxide, or dry chemical type.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL

- > Combustion products may include and are not limited to : Carbon monoxide and Carbondioxide.

SPECIAL PROTECTIVE ACTIONS FOR FIRE FIGHTERS

- > Wear full protective clothing and NIOSH - approved self - contained breathing apparatus.
- > Use water spray to cool fire - exposed surfaces and to protect personnel. If a leak or spill has not ignited, use water spray to disperse the vapours.
- > If possible, isolate product from heat, electrical equipments, sparks and open flames.
- > Avoid spraying water directly into storage containers.
- > Closed containers may explode when exposed to extreme heat.
- > Avoid spreading burning liquid with water, isolate liquid.
- > Do not allow runoff from fire fighting to enter drains or watercourses.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURE

- > Wear appropriate protective equipment, e.g. respirators, eye protection, gloves and safety shoes.
- > Avoid substance contact with eyes. Do not inhale vapours.
- > Ensure supply of fresh air in enclosed rooms.

ENVIRONMENTAL PRECAUTIONS

- > Eliminate sources of ignition.
- > Keep public away.
- > Contain spilled liquid with sand or other non-combustible absorbent materials.
- > Wash area and prevent runoff into drains and sewerage system.
- > Advise authorities if substance has entered a watercourse or sewer or has contaminated soil or vegetation.

METHODS AND MATERIALS FOR CONTAINMENTS AND CLEANING UP

- > Clean up all spills immediately.
- > Absorb spill with absorbent and inert material, then place in container.
- > Disposal in accordance to local / national regulations.

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

- > Use appropriate personal protective equipment.
- > Keep out of reach of children.
- > Handle containers with care. Open slowly in order to control possible pressure release.
- > Do not pressurize containers.
- > Do not ingest. Do not breathe in gas / fumes / vapour. Avoid contact with skin and eyes.
- > For personal protection, see section 8.
- > Use only in areas from which all naked lights and other sources of ignition have been excluded.
- > Take precautionary measures against static discharge.
- > Protect from frost and extremes of temperature.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

- > Keep containers tightly closed.
- > Containers that are opened should be properly resealed and kept upright to prevent leakage.
- > Store in cool, dry and well - ventilated place at temperature between 20 ~ 40°C away from heat and sources of ignition.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

CONTROL PARAMETERS / OCCUPATIONAL LIMITS

Substances	ACGIH TLV-TWA		OSHA PEL-TWA	
	ppm	mg / m ³	ppm	mg / m ³
Thermoplastic acrylic polymer	-	-	-	-
Mineral spirits	-	-	-	-
Xylene	100	434.00	-	-
Low boiling point naphtha	-	-	-	-

APPROPRIATE ENGINEERING CONTROL MEASURES

- > Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits.
- > Ensure eyewash stations and safety showers are close to the workstation location.

PERSONAL PROTECTION

Respiratory Protection	Use of NIOSH - approved respirators with organic vapour cartridges is recommended.
Hand Protection	Use of solvent resistance type or chemical resistant type of protective gloves is recommended.
Eye Protection	Use of safety glasses or goggles with side shields is recommended.
Skin / Body Protection	Wear chemical resistant clothes and safety shoes when handling product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid
Odour	Aromatic hydrocarbon odour
Odour threshold	Not available
pH	Not available
Melting point / freezing point	Not available
Initial boiling point and boiling range	Between 137 and 162 °C
Flash point	23 °C
Evaporation rate	Not available
Flammability (solid, gas)	Not applicable
Lower flammability or explosive limit	1.1 % by vol
Upper flammability or explosive limit	7 % by vol
Vapour pressure	Not available
Vapour density	> 1.00 (Vapour is heavier than air)
Relative density	Not available
Solubility	Not Miscible in water
Partition coefficient	Not available
Auto-ignition temperature	> 280 °C
Decomposition temperature	Not available
Viscosity	80 - 84 KU

10. STABILITY AND REACTIVITY

REACTIVITY

No dangerous reaction known under condition of normal use.

CHEMICAL STABILITY

The product is stable under recommended storage and handling conditions. (see section 7)

POSSIBILITY OF HAZARDOUS REACTION

Under normal conditions of storage and use, hazardous reaction will not occur.

CONDITIONS TO AVOID

Keep away from oxidising agents, strongly alkaline and strongly acidic materials in order to avoid exothermic reactions. Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, drill, grind or expose containers to heat or sources of ignition.

HAZARDOUS DECOMPOSITION PRODUCTS

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide, carbon dioxide, oxides of nitrogen and smoke.

11. TOXICOLOGICAL INFORMATION

There is no data available on the product itself.
Toxicological information of substances:

Acute oral toxicity

Harmful if swallowed

Substances

	Oral LD50(Rat), mg / kg
Thermoplastic acrylic polymer	4767.01
Mineral spirits	Data not available
Xylene	4300
Low boiling point naphtha	8400

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Acute dermal / skin toxicity

May be harmful if in contact with skin

Substances	Dermal LD50 (Rabbit), mg / kg
Thermoplastic acrylic polymer	3443.01
Mineral spirits	Data not available
Xylene	1700
Low boiling point naphtha	Data not available

Acute inhalation toxicity

Vapour concentrations above the recommended exposure levels may be irritating to the eyes and the respiratory tract, may cause headaches and dizziness, could be anesthetic and may have other central nervous system effects.

Substances	Inhalation Vapor LC50 (Rat), mg / L / 4hr
Thermoplastic acrylic polymer	5000
Mineral spirits	Data not available
Xylene	5000
Low boiling point naphtha	Data not available

Skin corrosion or irritation

Causes skin irritation. Frequent or prolonged contact may dry the skin, leading to discomfort and dermatitis.

Serious eye damage or irritation

May be an eye irritant

Respiratory or skin sensitisation

Vapour concentrations above the recommended exposure levels may be irritating to the eyes and the respiratory tract

Germ cell mutagenicity

No information available on the product

Carcinogenicity

Titanium Dioxide

The International Agency for Research on Cancer (IARC) has classified Titanium Dioxide as possibly carcinogenic to humans (Group 2B) based on inadequate evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals

Reproductive toxicity

No information available on the product

Specific Target Organ Toxicity (STOT) - single exposure

No information available on the product

Specific Target Organ Toxicity (STOT) - repeated exposure

No information available on the product

Asphyxiation hazard

May be harmful if swallowed and enters airways

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12. ECOLOGICAL INFORMATION

Toxicity

Aquatic toxicity - No data available

Persistence and degradability

Biodegradation - No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Result of PBT and vPvB assessment

No data available

Other adverse effects

There is no ecotoxicological test data available on the product itself. The product should not be allowed to enter drains or water courses.

13. DISPOSAL CONSIDERATIONS

The product should not be allowed to enter drains and watercourses.

Preferred methods of waste disposal are incineration or biological treatment in federal / state approved facility. Empty containers should be recycled or disposed through an approved waste management facility or licensed contractor.

All federal, state and local environmental regulations shall be observed.

14. TRANSPORT INFORMATION

Transport to be in accordance with ADR / RID for road / rail, IMDG for sea and IATA for Air.

LAND TRANSPORT

Classified as Dangerous Goods by the criteria of the European Agreement concerning the international carriage of Dangerous Goods (ADR) by Road & Regulations concerning the international carriage of Dangerous goods (RID) by Rail.

UN Number	1263
Proper shipping name	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)
Class	Class 3
Packaging Group	III

SEA TRANSPORT

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport of Sea.

UN Number	1263
Proper shipping name	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)
Class	Class 3
Packaging Group	III
Marine Pollutant	No

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SEA (ANNEX II OF MARPOL 73 / 78 AND THE IBC CODE)

Not applicable

AIR TRANSPORT

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA)
Dangerous Goods Regulations for transport by Air

UN Number	1263
Proper shipping name	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)
Class	Class 3
Packaging Group	III

15. REGULATORY INFORMATION

Applicable national regulations:

- > Standards on Hazard communication for hazardous chemicals and dangerous goods - SS 586 : Part 1 : 2014
 - Transport and storage of dangerous goods - SS 586 : Part 2 : 2014-GHS of classification and labelling of chemicals - SS 586 : Part 3 : 2008 (2014) - Preparation of safety data sheet
- > MOM : Workplace Safety and Health Act & Workplace Safety and Health (General Provisions)
 - This product is subject to SDS, labelling, PEL and other requirements in the Acts / Regulations.
- > NEA : Environmental Protection and Management Act & Environmental Protection and Management (Hazardous Substances) Regulations
 - This product is not subject to control under this Acts / Regulations.
- > SCDF : Fire Safety Act & Fire Safety (Petroleum and Flammable Materials) Regulations
 - This product is subject to the requirement of this Acts / Regulations.
- > SPF: The Arms and Explosive Act, the Arms and Explosives (Explosives) Rules, and the Arms and Explosives (Explosive Precursors) Rules
 - This product is not subject to the requirement of this Acts/Regulations.

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**SOLID GREEN TECH
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(Co.No.1018765-P)

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