Material Safety Data Sheet

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ROCKFIX TPO-22

Rev.: A, Date: 25.06.2025

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The enclosed Material Safety Data Sheet (MSDS), provides the latest information of products you have received from our company. Since you may redirect the product to more than one workplace, please be ensured that this information is disseminated to all person's handling the product.

This MSDS, supersedes all previous sheets versions provided for the products. This version has either been revised since the last time you purchased the product. Replacement of an old version is highly recommended.

Our MSDS, is the primary awareness tool for transmitting the health and safety, environment and disposal information on our products. In fact, our highest concern and priority is that our customer understands the nature of hazards associated with the product, how to use it safely and in compliance with relevant regulations.

STAR Technology, expects and highly recommends you to read and understand carefully the entire MSDS. There are some very significant information and guidelines you should know and be taken seriously. Strictly, follow the precautions identified and stated on this MSDS. Otherwise, you use conditions would necessitate other's appropriate methods or actions.

STAR Technology, will not be liable for any MSDS obtained through other sources. Always ask STAR for an updated copy of MSDS, for assurance. Should you need any clarifications or inquiries regarding the safety handling, correct storage, proper uses and legal disposal of our products; dont hesitate to contact us.

1. Product & Use & Manufacturer Address

1.1	Product Name	:	ROCKFIX TPO-22
1.2	Uses of Product	:	Solvent Based Polychloroprene Adhesive
1.3	Company	:	STAR Technology 1st Industrial Area Jeddah, P.O. Box , Jeddah, Kingdom of Saudi Arabia Tel: +966 Fax: +966 Email:

2. Hazardous Ingredients

2.1 Chemical Composition

Chemical	Weights	CAS Number
Toluene	10 - 20 %	CAS Number: 108-88-3
Naphtha Solvent	40 – 50 %	CAS Number: 8030-30-6
Acetone	20 – 30 %	CAS Number: 67-64-1
Polychloroprene Rubber	10 – 20 %	CAS Number: 9010-98-4
Phenolic Resin	15 – 30 %	CAS Number: 9003-35-4

HS Code:

3. Hazardous Identification

3.1	Classification on the substance or mixture	Solvent based Product
3.2	Label Elements	Signal Word: Danger
3.3	Hazard Statements	H225 Highly flammable liquid and vapor. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H336 May cause drowsiness or dizziness. H361 Suspected of damaging fertility or the unborn child. H373 May cause damage to organs through prolonged or repeated exposure.
3.4	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/ lighting/ equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. P264 Wash skin thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P272 Contaminated work clothing must not be allowed out of the workplace. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
3.5	Safety Statements	S2 (Out of reach Children), S45 (Applicator feels unwell, contact medical assistance), S23 (Don't breath vapour), .
3.6	Other hazards	**Response:** P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell. P308 + P313 IF exposed or concerned: Get medical advice/ attention. P331 Do NOT induce vomiting. P333 + P313 If skin irritation

		or rash occurs: Get medical advice/ attention. P362 Take off contaminated clothing and wash before reuse. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. **Storage:** P403 + P233 Store in a well-ventilated place. Keep container tightly closed. P403 + P235 Store in a well-ventilated place. Keep cool. P405 Store locked up. **Disposal:** P501 Dispose of contents/ container to an approved waste disposal plant.
3.7	GHS Hazard Symbols	
3.8	GHS Classification	Flammable liquids: Category 2, Skin irritation : Category 2, Skin sensitization : Category 1, Reproductive toxicity : Category 2, Specific target organ toxicity - single exposure : Category 3 (Central nervous system) Specific target organ toxicity - repeated exposure : Category 2 Aspiration hazard : Category 1

4. First Aid Measures

4.1	Eye Contact	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.
4.2	Skin Contact	Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.
4.3	Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Keep affected person under observation. Get medical attention. Show this Safety Data Sheet to the medical personnel.
4.4	Ingestion	Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention if any discomfort continues

5. Fire Fighting Measures

5.1	Suitable Extinguishing Media	Water Spray, Alcohol resistant Foam, Carbon dioxide (CO2), dry chemical, water fog.

5.2	Combustion - Exposure Hazards	- Burning produces irritating, toxic and obnoxious fumes. - Nitrogen and carbon oxides may be formed - Isocyanites, Hydrogen Cyanide, Sulfur Dioxide
5.3	Advice for Fire Fighters & Precautions	- Wear self contained breathing apparatus and full protective clothing - Do not allow run-off water to enter sewers and water sources. - Water spray should be used to cool containers
5.4	Unsuitable Extinguishing Media	N/A

6. Accidental Release Measures

6.1	Personal Precautions	Wear suitable protective clothing, hand impervious gloves, eye/face protection gear and protective footwear like rubber boots. Avoid contact with skin, Inhalation. Remove all sources of Ignition
6.2	Environmental Precautions	Prevent release to the environment, entry into drains, sewers and any other water courses.
6.3	Decontamination Procedures	Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses.

7. Handling and Storage

7.1	Handling	Use adequate ventilation. Avoid prolonged and repeated contacting with eyes and skin. Avoid eating and smoking in proximity of the work areas. Keep away from sources of ignition – No smoking.
7.2	Storage	Store in shaded, ventilated and dry place. Keep product closed when not in use. Keep from freezing and storage temperature between 10 – 35 degrees Celsius. Keep out of reach of children.
7.3	Materials to Avoid	Strong Oxidizing Agents

8. Exposure Controls / Personal Protection

Exposure Controls:

8.1	Engineering Control Measures	Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.
8.2	Personal Protective Equipment	Avoid skin and eye contact. Wear impervious gloves (eg. nitrile or neoprene), goggles. Wear suitable respiratory, eye, skin, protective equipment.

8.3	Occupational Exposure Limits	None assigned
8.4	Biological Limit Values	No limit allocated
8.5	Other Exposure Information	TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week. STEL (Short Term Exposure Limit): The average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

9. Physical and Chemical Properties

9.1	Physical State	Liquid
9.2	Color	Yellowish
9.3	Odor	Solvent
9.4	Boiling Point/Range	N/A
9.5	Melting Point	N/A
9.6	Flash Point	< 10 C
9.7	Auto Flammability	N/A
9.8	Explosive Properties	Not determined
9.9	pH	N/A
9.10	Vapor Pressure	N/A
9.11	Water Solubility	Immiscible
9.12	Relative Density	0.85 – 0.95
9.13	Solubility in Organic Solvents	Yes
9.14	Other Information	17 – 19 % by Volume (ASTM D2369)

10. Stability and Reactivity

10.1	Reactivity	There are no known reactivity hazards associated with this product.
10.2	Chemical Stability	Stable under recommended storage conditions.
10.3	Possibility of hazardous reactions	Reacts with Incompatibles
10.4	Conditions to avoid	Direct sunlight, Heat, Sources for ignition
10.5	Materials to avoid	Not established
10.6	Hazardous decomposition products	Carbon monoxide, carbon dioxide Chlorine containing gases
10.7	Hazardous Polymerization	Will not occur

11. Toxicological Information

Acute Toxicity:

	Chemical Name	LD50 / LC50
11.1	Hexane	(rat) Acute oral toxicity (LD50) : 25000 mg/kg Acute toxicity of the gas (LC50) : 48000 mg/kg (4hr)
11.2	Ester Resin	(rat) LD50 - >2000 mg/kg LC50 – 2500 mg/kg (90d)
11.3	Dichloromethane	(rat) LD50 : 1600 mg/kg LC50 : 52000 mg/li (1hr)

Toxicity:

11.4	Inhalation	No data available
11.5	Skin Contact	No data available

Immediate Effects:

11.6	Inhalation	Light irritation
11.7	Skin Contact	Light irritation
11.8	Eye Contact	Light irritation

Potential Chronic Effects:

11.9	Heritable Genetic Damage	No data available
11.10	Carcinogenic Effect	No data available
11.11	Risk Impaired Fertility	No data available
11.12	Sensitization	May cause light irritation by inhalation
11.13	Signs of Overexposure	No data available

12. Ecological Information

Ecotoxicity

12.1	Eco Toxicity	Components: n-hexane : Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 2.1 - 2.98 mg/l Exposure time: 96 h Test Method: flow-through test tris(nonylphenyl) phosphite : Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): 10 mg/l Exposure time: 96 h Test Method: static test Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna (Water flea)): 0.42 mg/l Exposure time: 48 h Test Method: static test
12.2	Persistence and degradability	No information available
12.3	Bioaccumulative potential	No information available
12.4	Mobility in soil	No information available

12.5	Results of PBT and vPvB assessment	No information available
12.6	Endocrine disrupting properties	No information available
12.7	Other adverse effects	No information available

13. Disposal Considerations

Disposal must be in accordance with local and national legislation.

13.1	Unused Product	Dispose of in an approved manner – Licensed Waste Disposal site. Do not empty into drains, sewers or water courses.
13.2	Used / Contaminated Product	As for unused product.
13.3	Packaging	Either washed and re-use or to be disposed to a licensed and approved waste company

14. Transport Information

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

Label: N/A

14.1	Air (ICAO/IATA)	UN/ID No. : UN 1133 Proper shipping name : Adhesives (HEXANE) Class : 3 Packing group : II Labels : Flammable Liquids Packing instruction (cargo aircraft) : 364 Packing instruction (passenger aircraft) : 353
14.2	Sea (IMDG)	IMDG-Code UN number : UN 1133 Proper shipping name : ADHESIVES (HEXANE) Class : 3 Packing group : II Labels : 3 EmS Code : F-E, S-D Marine pollutant : yes
14.3	Road/Rail (ADR/RID)	UN/ID/NA number : UN 1133 Proper shipping name : Adhesives (HEXANE) Class : 3 Packing group : II Labels : FLAMMABLE LIQUID ERG Code : 128 Marine pollutant : yes

15. Regulatory Information

Hazard Label Data:

15.1	Name of Ingredients	As above
15.2	Symbol	As above
15.3	Risk Phrases	Danger
15.4	Safety Phrases	As stated before

16. Other Information

The data and advice given apply when the product is used for the stated applications. The product is not sold as suitable for any other application. Use of the product for applications other than as stated in this sheet may give rise to risks not mentioned in this sheet.

The product should not be used other than for the stated applications without seeking advices from STAR Technology. If this product has been purchased for supply to a third party for use at work, it is the purchaser's duty to take all necessary steps to secure that any person handling or using the product is provided with the information in this sheet.

It is the responsibility and duty of the employer to inform employees and others who may be affected of any hazards described in this sheet and of any precautions which should be taken. This sheet does not constitute or substitute for the users own assessment of workplace risk, as required by other health and safety legislation.

Further copies of this MSDS can be obtained from STAR Technology.