Safety Data Sheet

U-90 SUPER TILEPLUS RED (TP-02)

Version: 1.0

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1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Material name : U-90 SUPER TILEPLUS RED (TP-02)

Recommended use : U-90 SUPER TILEPLUS RED (TP-02) is a high-quality cement-based tile adhesive with excellent properties for using to general tile in large size over to 60 X 60 cm such as ceramic tile, granite tile, marble tile, etc.

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2. HAZARD IDENTIFICATION

GHS Classification :

- Skin corrosion/irritation, Cat.1
- Serious eye damage/ eye irritation, Cat.1
- Respiratory or skin sensitization, Cat.1
- Carcinogenicity, Cat.1A
- Specific target organ toxicity-Single exposure, Cat.3

GHS Label Elements :

Symbol (s)



Signal words : DANGER

GHS Hazard Statement

Physical Hazard : Not identified

Health Hazard :

- H314 Caues severe skin burns and eye damage
- H318 Cause serious eye damage
- H317 Harmful in contact with skin
- H350 May cause cancer
- H335 May cause respiratory irritation

Environmental Hazard : Not identified

GHS Precautionary

Statement

Prevention	:	-	P281	Wear protective glove.
		-	P271	Use only outdoors or in a well-ventilated area.
		-	P202	Do not handle until all safety precautions have been read and understood.
		-	P260	Do not breathe dust/fume/gast/mist/vapour/spray.
		-	P264	Wash thoroughly after handing.
		-	P272	Contaminated work clothing should not be allowed out of the workplace.
Response	:	-	P303+P353+P361	IF ON SKIN (or hair): Take off immediately all contaminated cloting. Rinse affected areas with water (or shower).
		-	P362+ P363	Take off contaminated clothing and wash it before reuse.
		-	P305+P338+P351	IF IN EYES: Immediately rinse with water for several minutes. Remove contact lense, if present and easy to do. Continue rinsing.
		-	P302+P352	IF ON SKIN: Wash with plenty of water.
		-	P313+P332+P333+P337	IF skin/eye irritation is occurs, rash occurs or persists: Get medical advice/attention.
		-	P301+P310+P331	IF SWALLOWED: Rinse mouth . Do not induce vomiting.
		-	P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing
		-	P312+P314	Call or get a POISON CENTER or doctor/physician/medical advice/attention if you feel unwell.
Storage		-	P403+P405+P233	Store locked up in a well-ventilated place. Keep contianer tightly closed.
Disposal		-	P501	Dispose of contents/ container to appropriate waste reclaimer in accordance with local and national regulations.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Hazardous Components

Components	CAS No.	% w/w	Hazard Class
Portland Cement	65997-15-1	30-40 %	- Skin corrosion/irritation, cat.1C - Serious eye damage/eye irritation, cat.1 - Respiratory or skin sensitization, cat.1 - Carcinogenicity, cat.1A - STOT. (single exposure), cat.3, respiratory system.
Crystalline Quartz Silica (SiO_2)	14808-60-7	60-70 %	Not Classified
Additives	Proprietary	0.1– 1.5 %	Not Classified

Emergency overview

A single short-term exposure to dry powder of Portland cement is not likely to cause serious harm. However, prolonged or repeated exposure to wet Portland cement can cause serious, potentially irreversible tissue (skin or eye) destruction in the form of chemical (caustic) burns.

This composition is non-dangerous goods.

4. FIRST-AID MEASURES

Inhalation : Remove to fresh air, if rapid recovery does not occur, transport to nearest medical facility for additional treatment.

Skin contact : Remove contaminated clothing. In a shower, wash affected area with soap and water at least 15 minutes. Seek medical attention if irritant occurs or persists. Wash clothing before reuse.

Eye contact : Remove contact lenses, if present. Immediately flush eyes with plenty of clean running water at least 15 minutes while holding eyelids open. If eye irritation, burning sensation, redness, swelling and/ or blurred vision. Transport to the nearest medical facility for additional treatment.

Ingestion : If swallowed, do not induce vomiting, transport to the nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media	:	Foam, water spray or fog. Dry chemical powder, carbon dioxide
Unsuitable extinguishing	:	Not available
Specific hazard arising from chemicals	:	Typically, this product is non-flammable but when incomplete combustion occurs or the evaporation of water in open flames, Carbon monoxide may be evolved.
Protective equipment & precautions for fire fighters	:	Wear protective clothing and self-contained breathing apparatus.
Additional advice	:	Keep adjacent containers cool by spraying with water.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, Protective equipment and Emergency procedures	:	Avoid contact with eyes, skin and clothing by using the suitable protective equipment as required.
Environmental precautions	:	Use appropriate containment (of product and firefighting water) to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers. Authorities should be notified if reportable quantity release occurs.
Method and material for containment and clean up	:	For small liquid spills (< 1 drum): transfer by mechanical means to a labelled, sealable container for product recovery or safe disposal. For large liquid spills (> 1 drum): Perform with same method for small liquid spills. Retain as contaminated waste. Recover or recycle if possible.

7. HANDLING AND STORAGE

Precautions for safe handling : Do not breathe dust. Avoid contact with skin or eyes and clothing. Repeated or long-time exposure may cause skin dryness and dermal disease.

Keep container closed when not in use.

Conditions for safe storage/ Including any incompatability : The container should be labelled and keep tightly closed. Keep in a well-ventilated place. Avoid store near incompatible materials such as oxidizing agent. Keep cool.

Storage temperature: Ambient

Recommended materials : No special requirement for material container.

Unsuitable materials

Container advice

8. EXPOSURE CONTROL/ PERSONAL PROTECTION

Threshold limit for exposure control

Occupation exposure limits : Not available

Appropriate engineering control : Select controls based on a risk assessment of local circumstances. Appropriate measures include: Use sealed systems as far as possible. Adequate ventilation to control airborne concentrations below the exposure guidelines/limits are recommended.

Individual protection measures

Respiratory protection : Working under a well-ventilated area, use the respiratory equipment during operation.

Hand protection : Using gloves constructed of chemical resistant materials such as heavy nitrile rubber if frequent or prolonged contact is expected.

Neoprene or PVC gloves also be using in case of incidential contact or splash protection.

Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly.

Eye protection : Chemical splash goggles (chemical monogoggles). Eye washes and showers for emergency use are recommended to the work area.

Protective clothing : Protective gloves, safety shoes and boots are recommended.

Remark : Personal protective equipment is not considered to long term solution of exposure control.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Grey powder
Odor	:	No distinct odor.
pH (in water)	:	Not available
Initial Boiling Point	:	Not available
Melting Point	:	Not available
Flash point	:	Not combustible
Viscosity	:	Not available
Bulk Density (water = 1)	:	1.400-1.500
Water solubility	:	Excellent solubility

10. STABILITY AND RELIABILITY

Chemical stability	:	Stable under normal conditions of use.
Possibility of hazardous reaction	:	Not available
Condition to avoid	:	Avoid contact with humidity. Product hydrates (hardens) and become unusable.
Incompatible materials	:	Wet Portland cement is alkaline. It is incompatible with acids, ammonium salts and phosphorous.
Hazardous decomposition products	:	Adding water will produce (caustic) calcium hydroxide.

11. TOXICOLOGICAL INFORMATION

Basis of assessment	:	Information given is based on product data, mixtures of product and/ or the similar product and/ or ingredients.
Acute oral toxicity	:	Expected to be low toxicity.
Acute dermal toxicity	:	Cause severe skin burns and eye damage.
Acute inhalation toxicity	:	Expected to be low of toxicity if inhaled.
Skin corrosion/ irritation	:	Slightly irritation to skin through single short-term exposure.
Sensitisaton	:	Not available
Serious eye damage/ irritation	:	May cause irritation to eye (powder exposure) Cause serious eye damage (mixture exposure)
Respiratory tract irritation	:	May cause respiratory irritation (powder exposure)
Aspiration hazard	:	Not available
Germ cell mutagenicity	:	Not available
Carcinogenicity	:	May cause cancer
Reproductive toxicity	:	Not available
Specific target organ toxicity-Single exposure	:	May cause respiratory irritation.
Specific target organ toxicity-Repeated exposure	:	Not available

12. ECOLOGICAL INFORMATION

Basis for Assessment	:	The information given below is based partly on a knowledge of the components and the ecotoxicology of similar products.
Acute Toxicity	:	Not available
Mobility	:	This product is completely miscible and can spread around in water.
Persistence/degradability	:	Not available
Bioaccumulative potential	:	Does not bioaccumulate significantly.

13. DISPOSAL CONSIDERATION

Material disposal : Recover or recycle if possible. It is responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Do not dispose into the environment, in drains or in water courses. Waste product should not be allowed to contaminate soil or water.

Container disposal : Disposal should be in accordance with applicable regional, national, and local laws and regulations. Send a disposal container to drum recover or metal reclaimer.

14. TRANSPORT INFORMATION (In dry cement powder)

ADR /RID : Classified as NON-DANGEROUS GOODS by the criteria of UNRTDG

IMDG : Classified as NON-DANGEROUS GOODS by the criteria of IMDG

IATA : Classified as NON-DANGEROUS GOODS by the criteria of IATA

15. REGULATORY INFORMATION

Notification of the Ministry of Industry subject to Globally Harmonized System of Classification and Labelling of Chemicals (GHS) B.E. 2555 (2012)

16. OTHER INFORMATION

SDS version	:	1.0
Date of Issue	:	15.07.2021
Reference	:	-
Disclaimer	:	This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be constructed as guaranteeing any specific property of the product.

All rights reserved to inform the precise quantity of constituents in the product. By reason is confidential of the company which could not reveal or propagate to the public.