Safety Data Sheet

ATM Pigments for Cement

Version: 1.1

Date of Issue: 22.04.2022

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

Material name	:	ATM Pigments for Cement
Recommended use	:	The application of these pigments has been widely accepted as a superior colorant in building materials. They are extremely weather resistant and very firmly integrated in the cement matrix.
Supplier	:	U.R. Chemical Company Limited. 81 Moo 11 Soi Thanasit 4, Bang Pla, Bang Phli District, Samut Prakan 10540, Thailand
Telephone	:	(+662) 312 1415-9
Fax	:	(+662) 312 1048
Emergency Telephone number	:	(+662) 312 1415

2. HAZARD IDENTIFICATION

GHS Classification

Not classified as hazardous according to criteria of GHS.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Components

No.	Colour Shade of Products		Component		
			Chemical Substance	Proportion (%)	Hazard Class
1	Iron Oxide Yellow	No.930	Iron Oxide Yellow Pigments	95-100%	Not Classified
2	Iron Oxide Green	No.GN	Iron Oxide Green Pigments	95-100%	Not Classified
3	Iron Oxide Red	No. 120	Iron Oxide Red Pigments	95-100%	Not Classified
4	Iron Oxide Red	No.222	Iron Oxide Red Pigments	95-100%	Not Classified
5	Iron Oxide Deep Blue	No.150	Iron Oxide Blue Pigments	95-100%	Not Classified
6	Pigment Blue	No.153	Iron Oxide Blue Pigments	95-100%	Not Classified
7	Iron Oxide Black	No.318	Iron Oxide Black Pigments	95-100%	Not Classified

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 incompatibility : 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

Components	ACGIH TLV		Remarks
	TWA	STEL	
-			

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	:	Colours powder
Odor	:	Mild odor
pH		
Iron Oxide Red No.120, 220	:	4.5 -7
Iron Oxide Yellow No. 930	:	4.5 -7
Iron Oxide Blue No.150,153	:	7-9
Iron Oxide Green	:	7-9
Iron Oxide Black No.318	:	5-8
Melting Point	:	Not available
Specific Gravity (water = 1)	:	Not available
Water solubility	:	0.5 %

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	:	Not available based on raw material data.
Acute dermal toxicity	:	Not available based on raw material data.
Acute inhalation toxicity	:	Not available based on raw material data.
Skin corrosion/ irritation	:	Not available based on raw material data
Sensitization	:	Not available based on raw material data.
Serious eye damage/ irritation	:	Not available based on raw material data
Respiratory tract irritation	:	Not available based on raw material data.
Aspiration hazard	:	Not available based on raw material data.

Germ cell mutagenicity	:	Not available based on raw material data.
Carcinogenicity	:	Not available based on raw material data.
Reproductive toxicity	:	Not available based on raw material data.
Specific target organ toxicity-Single exposure	:	Not available based on raw material data.
Specific target organ toxicity-Repeated exposure	:	Not available based on raw material data.

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 based on raw material data.
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

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. 2019

16. OTHER INFORMATION

SDS version	:	1.1
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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.