Safety Data Sheet

1. **Substance identity and company contact information**

Product Name:	Five Star Project X X2O Clay Rehydration Formula
Company:	Clay Revolution, LLC.
Address:	107 S Market Street, Madison North Carolina, United States 27025
Telephone Number:	336-949-4396
Emergency Telephone Number:	336-949-4396
E-mail address:	info@clayrevolution.com
Recommended use and restraint:	Softener for metal clay

2. **Hazards identification**

GHS classification

Physical and Chemical Hazards	
Flammable liquids	Category 4
Adverse human health effects	
Acute toxicity(Oral)	Impossible to classify
Acute toxicity(Dermal)	Impossible to classify
Acute toxicity(Inhalation: Gas)	Impossible to classify
Acute toxicity(Inhalation: Steam)	Impossible to classify
Acute toxicity(Inhalation: Dust)	Impossible to classify
Acute toxicity(Inhalation: Mist)	Impossible to classify
Skin corrosive, Irritation	Out of division
Heavy injuries to eyes, Irritation	Category 2
Sensitization of respiratory organs	Impossible to classify
Sensitization of skin	Impossible to classify
Variation of germ cell	Impossible to classify
Carcinogenicity	Impossible to classify
Genital toxicity	Impossible to classify
Specific target organs, General toxicity (Single exposure)	Impossible to classify
Specific target organs, General toxicity (Repetition exposure)	Impossible to classify
Hazardous of Inhalational respiratory	Impossible to classify
Environmental Effects	
Acute hazardous to the aquatic Environmental	Impossible to classify
Chronic hazardous to the aquatic Environmental	Impossible to classify
Hazardous to the ozone layer	Impossible to classify

Label Element Symbol:

Alert Words: Danger

Hazards Information: Combustible liquid
Causes serious eye irritation
May cause breathing difficulties if inhaled.

Caution: 【Prevention】
Do not eat, drink or smoke while using.
Keep away from hot surfaces and flames.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.

【Response】
In case of fire: Use carbon dioxide, alcohol-resistant foam, chemical powder, dry sand and water spray to extinguish

【Storage】
Store in a well ventilated place. Keep cool. Keep storage locked.

【Disposal】
Obey the relevant law as to the disposal of waste.
Dispose by the assistance of a waste disposer authorized by local government.

3. Chemical composition and data on components

Chemical substance

Chemical name or common name	Chemical Formula	Composition %	CAS No.
Water	H_2O	90-95	7732-18-5
1-Propanol	C_3H_8O	1-3	71-23-8
Mineral Oil	-	0-5	8042-47-5
Propylene Glycol	$C_3H_8O_2$	0-5	57-55-6
Surfactant	-	0-5	Trade secret

4. First-aid measures

Inhalation: Move sufferers to place filled with fresh air, and let repose with posture easy to breathe. If having indisposition, arrange for transport to nearest medical facility for examination and treatment by a physician.

Skin Contact: Flush with water and soap as soon as possible.
If skin irritation or rash occurs: Get medical advice/attention.
If having indisposition, arrange for transport to nearest medical facility for examination and treatment by a physician.
Wash the dirty work clothes before reuse.

If you feel skin abnormality such as itching or pain etc., get medical attention.

Eye Contact: Wash eyes with plenty of clean water for at least 15 minutes and refer to ophthalmologist for attention.
During eyewash, open the eyelids well with fingers and move the eyes around to reach water to every corner of the eyes.
Remove contact lenses if they can be removed easily.

Ingestion: Rinse out mouth with water, but do not make victim induce vomiting.
Drink plenty of water to dilute chemicals.

Expected acute symptom: Refer to "Toxicological Information".

5. Fire-fighting measures

Extinguish Media: Carbon dioxide, alcohol-resistant foam, chemical powder, dry sand And water spray

Unsuitable extinguish media: High pressure jet spray may spread fire.

Specific hazards arising from the chemical:
Toxic gasses (carbon monoxide etc.) may be generated upon Combustion

Specific extinguishing methods: Use chemical powder, carbon dioxide, or dry sand for an early stage of Fire.
In case of large fires, air should be cut off using alcohol resistant foam Agent in order to extinguish at once.
In case of fire in the surrounding areas, cool equipment by water Spraying.
If possible, move containers to safe areas.

Special protective equipment for firefighters
Firefighters should wear appropriate protective equipment such as Self-breathing apparatus. Extinguish fire from windward.

6. Accidental release measures

Caution for the human body, protective and emergency measure: Use proper personal protective equipment as indicated in Section 8 to avoid contacting eyes and skin or inhalation of gas or fume.
Keep others out except for authorized personnel.
Stay windward.

Caution for the environment: Take care not to affect the environment by discharging to waterways.
Do not impregnate the spills into soil.

Containment and cleaning way: Stop leakage if not in danger.
Remove ignition sources nearby and prevent from fire outbreaks.
For small spills, absorb spills with paper towels or waste clothes etc, Then put them into sealable containers.
For large spills, stop leakage with dike of earth or sand, and then cover Over spills with foam and absorb them with dry sand or
Non-flammable adsorbent, then put them into sealable containers.
Use non-sparking shovels or etc.

Prevention of secondary disaster: Dispose spillage frequently to keep the floor from slippery condition.

7. Handling and Storage

Handling:

Technical measure: Keep Fire Away. Take measures against static discharges such as Grounding.
Use in the closed apparatus/equipment. Work under local exhaustion.
Avoid breathing vapors or contact with skin as much as possible.
If there is a risk of exposure, wear appropriate protective equipment.
Enforce hand-washing or cleansing with soap.
Avoid long-term handling and repeated exposure.

Storage: Keep away from heat and sunlight. Store in a dry and well-ventilated Location.
Store tightly in sealable containers. Keep fire away from storage Location.
Keep in hazardous materials facilities. Store locked up.
Keep away from incompatible materials.

8. Exposure control and personal protection

Appropriate engineering controls:

Seal the entire facility/equipment or install a local exhaust system.
Make available eye washer and safety shower near the work area.
Install flammable gas detectors, toxic gas detectors and flammable Gas alarm depending on the circumstances.

Allowance concentration TLV-TWA :

Occupational Exposure Limits

OSHA-PELs TWA 200 pmm (1-Propanol)
TWA 5mg/m^3 (Paraffin oil: Oil mist (Mineral))

ACGOH-TLV TWA 100 ppm (1-Propanol)
TWA 5mg/m^3 (Paraffin oil: mineral oil, excluding metal working fluids Pure, highly and severely refined, inhalable fraction)

Personal Protective Equipment:

Respiratory organs: In case of poor ventilation, wear appropriate respirators.
Hands: Wear appropriate protective gloves.
Eyes: Wear appropriate protective eyeglasses.
Wear appropriate protective face protections.
Skin and Body: Wear appropriate protective clothing and safety shoes.

Sanitary Measure: Wash hands carefully after use.

9. Physical and chemical properties

Appearance, physical state, form, color: Clear, milky liquid

Odor: Alcohol odor

pH:	7
(Reference Data)	
Boiling point, Initial boiling point and Boiling range:	97°C (1-Propanol)
Flash point:	62.3°C
Explosion range:	No data
Steam pressure:	No Data
Steam density(Air=1):	No data
Specific gravity:	No data
Solubility:	Miscible (1-Propanol)
Threshold of odor:	No data
Flammability limit:	2.1 ~ 13.5vol% (1-Propanol)
Vapor Pressure:	2.0kPa (1-Propanol)
Relative Density:	0.8 (1-Propanol)
Auto-ignition temperature:	371°C (1-Propanol)
Melting/Freezing Point:	-127°C (1-Propanol)
Vapor Density:	2.1 (1-Propanol)
Partition coefficient:	0.25 (1-Propanol)

10. Stability and reactivity

Chemical Stability:	Stable under normal storage and handling conditions.
Incompatibilities with Other Materials:	May react with incompatible materials. Strong oxidants.
Conditions to Avoid:	Direct sunlight and high temperature.
Hazardous Decomposition Products:	Toxic gases (carbon monoxide etc.) may be generated on combustion.

11. Toxicological Information

Information on toxicological effects

Acute toxicity

(Oral)

Water:	Rat	LD_{50}	>90000 mg/kg
1-Propanol:	Rat	LD_{50}	2200 mg/kg

(Dermal)

1-Propanol:	Rabbit	LD_{50}	4000 mg/kg

(Inhalation): No data

LD_{50} Lethal Dose, 50% kill

Skin corrosion/irritation

1-Propanol: Showed mild irritation in skin irritation tests of rabbits

Serious eye damage/irritation

1-Propanol:	Showed severe irritation with corrosion in eye irritation tests of Rabbits
Respiratory sensitization	No data available
Skin sensitization	No data available
Germ cell mutagenicity	No data available

Carcinogenicity

1-Propanol:	ACGIH: A4 (not classifiable as a human carcinogen)
Paraffin oil:	ACGIH: A4 (not classifiable as a human carcinogen)

Reproductive toxicity

1-Propanol:	Suspected of damaging fertility or the unborn child

Specific target organ toxicity (Single exposure)

1-Propanol:	May cause respiratory irritation May cause drowsiness or dizziness by the Narcotic effects

Specific target organ toxicity (Repeated exposure)

1-Propanol:	No data available

Aspiration hazard

Paraffin oil:	May be harmful if swallowed and enters airways

12. Ecological information

Eco-toxicity

1-Propanol:	Daphnia LC_{50} (48h) 3025 mg/l Hazardous to the aquatic environment (acute) is lower than GHS Hazard category Hazardous to the aquatic environment (long-term) is lower than GHS hazard category LC_{50} Lethal concentration, 50% kill

Persistency and Biodegradability

1-Propanol:	Evaluated to be degradable in Biodegradation and Bioconcentration
Bioaccumulation potential:	No data
Mobility in soil:	No data
Hazardous to the ozone layer:	No data

13. Disposal considerations

The rest of waste, contaminated vessel:	Obey the relevant law as to the disposal of wastes. Provide hazardous information with a waste disposer in advance of committing. Do not discharge or dispose by landfill the product, waste liquid or detergent drain to environment.

14. Transport information

International regulations:

UN number:	Not applicable
UN proper shipping name:	Not applicable
Packing group:	Not applicable to the criteria for classification.
Marine pollutant:	Not applicable to the criteria for classification.
Domestic regulations:	Refer to laws and regulation that are applied.
Special precautions:	Prior to transport, prevent direct rays of the sun, and verify that there is no damage, corrosion or leakage of the container. Do not pile up a heavy load on top of the shipment.
Emergency response Guide Number	127

15. Other information

This information contained in this data sheet represents the best information currently available to us. However, no warranty is made with respect to its completeness and we assume no liability resulting from its use. Users are advised to make their own tests to determinate the safety and suitability of each such product or combination for their own purposes.