




Safety data sheet according to GHS

1. Identification

Identification of the Substance or mixture	Matquest® US liquid
Recommended use of the product and restrictions on use	Sequestering agent. For Industrial use only.
Manufacturer/Supplier's details	Matex Bangladesh Limited Head Office : Biman Bhaban, 5 th Floor, 100 Motijheel C/A, Dhaka – 1000, Bangladesh. Tel # 88-02-9562383, Fax # 88-02-9562387 Factory : East Chandora, Shafipur, Kaliakoir, Gazipur, Bangladesh. Tel & Fax # 88 – 06822 – 51166, Mobile # 01711 – 684530 e-mail : researchdevelopment@matexbd.com web: www.matexbd.com
Emergency Phone number	880-6822-51166 ; Mobile # 01713425868

2. Hazard Identification

GHS Classification	
Physical hazards	None
Health hazards	Acute Toxicity – Category 4 Skin Corrosion/irritant – Category 1A to 1C Serious eye damage/eye irritation – Category 1
Environmental hazards	Hazardous to the aquatic environment – Category 3 Hazardous to the ozone layer – Not classified as hazardous
GHS Label	
Signal Word	Danger, Warning
Hazard Statements	
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H302	Harmful if swallowed
H312	Harmful in contact with skin
H332	Harmful if inhaled
Precautionary Statements	
Prevention	
P264	Wash ...thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P260	Do not breathe dusts or mists.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.



Response	
P301 + P330 + P331 P303 + P361 + P353 P304 + P340 P305 + P351 + P338 P363 P310 + P312	IF SWALLOWED : Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair) : Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED : Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or doctor/physician if you feel unwell.
Storage	
P405	Store locked up.
Disposal	
P501	Dispose of contents/container in accordance with local regulations.

3. Composition/information on ingredients

Synergistic mixture of acids	Ingredients	CAS No.	Concentration
	Confidential	-	Proprietary

4. First Aid Measures

Skin Contact	Remove all contaminated clothing. Wash thoroughly with soap and water. If irritation persists, seek medical attention.
Eye Contact	Flush the eye with plenty of water for 15 minutes. If there is any irritation seek medical advice immediately.
Inhalation	Remove affected person to fresh air. If recovery is delayed seek medical advice.
Ingestion	If the person is conscious, rinse mouth with water. Do not induce vomiting unless directed to do so by a physician.

5. Fire Fighting Measures

Extinguishing media	Foam, carbon dioxide, dry powder, water spray/fog.
Special exposure hazards	None
Special protective equipment for firefighters	As for fires involving chemicals; chemical protection suit, suitable gloves and boots, and self contained breathing apparatus.

6. Accidental release measures

Personal precautions	Use personal protective equipment
Environmental precautions	Do not discharge into drains or rivers.
Methods for cleaning up	Soak up with inert adsorbent material. Transfer into a suitable container (labeled salvage) for disposal by an appropriate method.

7. Handling and storage

Precautions for safe handling	Do not eat, drink or smoke while handling the product. Wash hands after use.
Conditions for safe storage	Store in a cool, dry & ventilated area away from the sources of heat or ignition.



Shelf Life	6 months.
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8. Exposure controls/personal protection

Control parameters	Ensure adequate ventilation, especially in confined areas.
Appropriate engineering controls	Use local exhaust ventilation as needed.
Individual protection measures (including PPE):	
Eye protection	Safety goggles.
Skin protection	Protective clothing.
Hand protection	Protective gloves.
Respiratory protection	Not required for properly ventilated areas.

9. Physical and chemical properties

Appearance	Clear colorless to pale yellow liquid
Odor	Characteristic odor
pH (10% solution)	ca.1.5
Melting point/Freezing point	Not determined
Boiling point/range	ca.90-100 °C
Flash point	Not available
Evaporation Rate	Not available
Flammability (solid/gas)	Not available
Explosive limits	Not available
Vapour pressure	Not volatile
Vapour density	Not available
Relative density	ca.1.190 g/ml
Solubility(ies)	Soluble in water
Partition coefficient :n-octano/water	Not available
Auto ignition temperature	Not available
Decomposition temperature	196-198 °C
Viscosity	Not applicable

10. Stability and reactivity

Reactivity	No reactivity hazards.
Stability	Stable at room temperatures.
Possibility of hazardous reactions	None known
Conditions to avoid	Keep away from heat, sparks, open flame and other ignition sources.
Incompatible materials	Acid chlorides, metals, oxidizers, halogenated solvents.
Hazard decomposition products	No decomposition if stored and applied as directed.

11. Toxicological information

This product is not tested. The following information is based on analogy with a similar material or information of ingredients.	
Acute toxicity	Ingredients : i) Oral/LD50/rat : 2400 mg/kg ii) Oral/LD50/rabbit : 7600-8700 mg/kg



	iii) Oral/LD50/rat : 883 mg/kg
Skin corrosion/irritation	Skin irritation
Serious eye damage/irritation	Serious eye irritation
Respiratory or skin sensitization	Data is not available
Germ cell mutagenicity	No genetic effects were observed in standard test using bacterial and animal cells.
Carcinogenicity	NTP carcinogen not known and not anticipated.
Reproductive toxicity	No effects on reproduction or fertility.
STOT-single exposure	Data is not available
STOT-repeated exposure	Data is not available
Aspiration hazard	Data is not available

12. Ecological information

This product is not tested. The following information is based on information of ingredients.	
Toxicity	i) Ingredients : <u>Toxicity to fish</u> – Rainbow trout/LC50(96 h) : 368 mg/l Blue gill fish/LC50(96 h) : 868 mg/l <u>Toxicity to invertebrates</u> – Daphnia magna/EC50 : 527 mg/l ii) <u>Toxicity to fish</u> – LD/50 : > 10,000 mg/l iii) DIN EN ISO 7346 : 440-706 mg/l Mixture consists of ingredients of unknown hazard to the aquatic environment.
Persistence & degradability	90% biodegradable as per OECD 302A 98% biodegradable after 2 d as per OECD 302B 98% biodegradable after 2 d as per DIN EN ISO 9888
Bioaccumulative potential	No data available
Mobility in soil	Completely soluble
Other adverse effects	None known

13. Disposal considerations

Disposal methods	Dispose of contents/container in accordance with local regulation.
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14. Transport information

UN Number	Not applicable
UN Proper Shipping Name	Not applicable
Transport hazard classes	Not applicable
Packing group, if applicable	Not applicable
Environmental hazards	No environmental hazards
Special precautions for user	None
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable



15. Regulatory Information

Safety, health and environmental regulations	None
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16. Other information

Date of preparation	19/04/2010
Revision No.	01
Reason for revision	Updated as per GHS Standard Format
All ingredients are compliant with the requirements of European Directive on RoHS (Restriction of Hazardous Substances)	
Matquest[®] is a registered trade name of Matex Bangladesh Limited	

The information, data and recommendations stated herein are based upon the data of ingredients available to us and are considered to be reliable. However, it is the users responsibility to satisfy himself, by preliminary tests or otherwise, the suitability of such information for his own particular purpose, including mixing with other products. The purpose of this Material safety data sheet is to describe the material in terms of physical, health & environmental hazards. Matex Bangladesh Limited makes no warranties, either expressed or implied, with respect thereto and assumes no obligation/liability for the hazards connected with the use or handling of the material.