




## Safety data sheet according to GHS

### 1. Identification

Identification of the Substance or mixture	<b>Matfix<sup>®</sup> VNF liquid</b>
Recommended use of the product and restrictions on use	Dye-fixing agent for reactive dyes. For Industrial use only.
Manufacturer/Supplier's details	Matex Bangladesh Limited <b>Head Office</b> : Biman Bhaban, 5 <sup>th</sup> Floor, 100 Motijheel C/A, Dhaka – 1000, Bangladesh Tel # 88-02-9562383, Fax # 88-02-9562387 <b>Factory</b> : East Chandora, Shafipur, Kaliakoir, Gazipur, Bangladesh. Tel & Fax # 88 – 06822 – 51166, Mobile # 01711 – 684530 e-mail : <a href="mailto:researchdevelopment@matexbd.com">researchdevelopment@matexbd.com</a> web: <a href="http://www.matexbd.com">www.matexbd.com</a>
Emergency Phone number	880-6822-51166 ; Mobile # 01713425868

### 2. Hazard Identification

GHS Classification	
<b>Physical hazards</b>	None
<b>Health hazards</b>	Acute Toxicity – Category 4 Skin Corrosion/irritant – Category 2 Serious eye damage/eye irritation – Category 2A
<b>Environmental hazards</b>	Hazardous to the aquatic environment – Not classified as hazardous Hazardous to the ozone layer – Not classified as hazardous
<b>GHS Label</b>	
<b>Signal Word</b>	Warning
<b>Hazard Statements</b>	
H315	Causes skin irritation
H319	Causes serious eye irritation
H302	Harmful if swallowed
H312	Harmful in contact with skin
H332	Harmful if inhaled
<b>Precautionary Statements</b>	
Prevention	
P264 P280 P270	Wash ...thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Do not eat, drink or smoke when using this product.
Response	
P332 + P337 + P313	If skin irritation occurs/eye irritation persists : Get medical advice/attention.



P302 + P352 P304 + P340	IF ON SKIN : Wash with plenty of soap and water. IF INHALED : Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P362	Take off contaminated clothing and wash before reuse.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.

### 3. Composition/information on ingredients

Polyethyleneimine	Ingredients	CAS No.	Concentration
	Confidential	-	Proprietary

### 4. First Aid Measures

Skin Contact	Wash with plenty of soap and water. If skin irritation occurs, get medical advice/attention.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, get medical advice/attention.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing.
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 (labelled 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.

### 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	Pale yellow liquid
Odor	Specific odor
pH (10% solution)	ca.6.0
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 available
Vapour density	Not available
Relative density	Not available
Solubility(ies)	Soluble in water.
Partition coefficient : n-octanol/water	Not available
Auto ignition temperature	Not available
Decomposition temperature	Not available
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	Strong oxidizers and strong bases.
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.	
Acute toxicity	Oral/LD50/rat/male/female : >500 - < 2000 mg/kg (OECD Guideline 423)
Skin corrosion/irritation	Skin irritant
Serious eye damage/irritation	Eye irritant
Respiratory or skin sensitization	Data is not available
Germ cell mutagenicity	Data is not available
Carcinogenicity	Data is not available
Reproductive toxicity	Data is not available
STOT-single exposure	Data is not available
STOT-repeated exposure	Data is not available



Aspiration hazard	Data is not available
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## 12. Ecological information

This product is not tested. The following information is based on analogy with a similar material.	
Toxicity	Data is not available
Persistence & degradability	Ca.50-60% biodegradable within 28 d as per OECD 302 B (aerobic), activated sludge, domestic.
Bioaccumulative potential	Data is not available
Mobility in soil	Data is not available
Other adverse effects	Data is not available

## 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	None
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	23/04/2010
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)	
<b>Matfix<sup>®</sup></b> is a registered trade name of <b>Matex Bangladesh Limited</b>	

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.