



# MATERIAL SAFETY DATA SHEET

## GT BOND EP HARDENER

REV. NO.001 /SDS/23  
REVISION DATE 01/02/2023  
VERSION: 1.0

### 1. Identification Of The Substance/Preparation And Of The Company/Undertaking

**Product: GT BOND EP HARDENER**

Application: Hardener for epoxy bonding agent

Recommended use: Hardener component of epoxy bonding agent.

Manufacturer/supplier information:

Manufacturer/supplier:

Manufacturer Address:

ASAS Construction Chemicals Factory

Street No. 38, Industrial Area, Qatar

Email : info@asas-ccf.com

Tel : +974 – 44337000

Fax : +974 – 44337100

### 2. Composition/information on ingredients

Hazardous ingredients:

Ingredient	EC No.	CAS No	Concentration
4,4'-METHYLENEDIANILINE	202-974-4	101-77-9	30-60%
Modified aliphatic amine			20-40%

Other ingredients determined not to be hazardous

### 3. Hazard identification

May cause sensitisation by skin contact. Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed. May cause cancer. May cause harm to the unborn child. Possible risk of impaired fertility. Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Possible risk of irreversible effects.

Human Health:

Prolonged or repeated contact with skin may cause redness, itching, irritation and eczema/chapping. The product contains a small amount of sensitizing substance which may provoke an allergic reaction among sensitive individuals in contact with skin.

Environment:

The product contains a substance which is harmful to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.





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### 4. First-aid measures

#### Inhalation:

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Keep affected person under observation. Seek medical advice if effects persist.

#### Skin contact:

Remove affected person from source of contamination. Remove contaminated clothing immediately and wash skin with soap and water.

#### Eye contact:

Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

#### Ingestion:

Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention if any discomfort continues.

### 5. Fire-fighting measures

#### Special protective precautions and equipment:

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

#### Suitable extinguishing media:

Extinguish with carbon dioxide or dry powder.

#### Special Fire Fighting Procedures:

Cool containers exposed to flames with water until well after the fire is out.

### 6. Accidental release measures

#### Spill Clean Up Methods:

Wear necessary protective equipment. Absorb small quantities with paper towels and evaporate in safe place (fume hood). Allow sufficient time for vapours to completely clear the hood ducts, then burn the paper in a location away from combustible materials. Flush spilled material into suitable retaining areas or container with large quantities of water.

### 7. Handling and storage

#### Handling:

Avoid skin and eye contact and inhalation of vapour, mist or aerosols.

#### Storage:

Store in a cool, dry, well-ventilated place and out of direct sunlight.  
Keep containers closed when not in use - check regularly for leaks



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### 8. Exposure controls/personal protection

#### PROCESS CONDITIONS

Provide eyewash station.

#### ENGINEERING MEASURES

Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours.

#### RESPIRATORY EQUIPMENT

Respiratory protection may be required

#### HAND PROTECTION

Use protective gloves made of: Rubber, neoprene or PVC.

#### EYE PROTECTION

Wear goggles/face shield.

#### OTHER PROTECTION

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

#### HYGIENE MEASURES

Use appropriate skin cream to prevent drying of skin. Wash at the end of each work shift and before eating, smoking and using the toilet.

Wash promptly with soap & water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke. **DO NOT SMOKE IN WORK AREA!**

### 9. Physical and chemical properties

#### Appearance:

Physical state:	Liquid.
Colour:	Colored.
Odour:	Amine.
Water Solubility:	Insoluble in water
Relative Density (at 20°C):	1.02 ± 0.1
Boiling Point/Range (°C):	>200°C
Flash Point (closed, °C):	130 °C
Auto flammability (°C):	Not applicable.
Explosive Properties (%)	Not considered to be explosive.

### 10. Stability and reactivity

#### STABILITY

Stable under the prescribed storage conditions.

#### CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition. Avoid contact with strong oxidisers.

#### HAZARDOUS DECOMPOSITION PRODUCTS

Fire creates: Acrid smoke/fumes of: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).





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### 11. Toxicological information

#### INHALATION

Irritating to respiratory system.

#### INGESTION

Toxic if swallowed.

#### SKIN CONTACT

May cause sensitisation by skin contact. Irritating to skin.

#### EYE CONTACT

Irritating and may cause redness and pain.

#### ROUTE OF ENTRY

Ingestion. Skin and/or eye contact.

#### TARGET ORGANS

Eyes Skin

### 12. Ecological information

Avoid contaminating waterways.

Ecotoxicity: The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

Persistence and degradability: Expected to be not readily biodegradable.

### 13. Disposal considerations

Refer to State/Territory Land Waste Management Authority.

Disposal must be in accordance with local and national legislation.

Unused Product: Must be dumped or incinerated in accordance with local regulations.

Recycle if possible.

### 14. Transport information



Toxic



Dangerous for the environment



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### GENERAL

PROPER SHIPPING NAME	TOXIC LIQUID, ORGANIC, N.O.S. (4, 4'-METHYLENEDIANILINE,)
UN NO. ROAD	2810
ADR CLASS NO.	6.1
ADR CLASS	Class 6.1: Toxic substances.
ADR PACK GROUP	III
TUNNEL RESTRICTION CODE	(E)
HAZARD No. (ADR)	60
ADR LABEL NO.	6.1
HAZCHEM CODE	2X
UN NO. SEA	2810
IMDG CLASS	6.1
IMDG PACK GR.	III
EMS	F-A, S-A
UN NO. AIR	2810
AIR CLASS	6.1
AIR PACK GR.	III

### 15. Regulatory information

CONTAINS 4,4'-METHYLENEDIANILINE

#### RISK PHRASES

R39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
R43	May cause sensitisation by skin contact.
R45	May cause cancer.
R48/20/21/22	Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R61	May cause harm to the unborn child.
R62	Possible risk of impaired fertility.
R68	Possible risk of irreversible effects.

#### SAFETY PHRASES

S27	Take off immediately all contaminated clothing.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
S38	In case of insufficient ventilation, wear suitable respiratory equipment.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
S53	Avoid exposure - obtain special instructions before use.
S57	Use appropriate containment to avoid environmental contamination.
S60	This material and its container must be disposed of as hazardous waste.
S61	Avoid release to the environment. Refer to special instructions/safety data sheets.
P11	Restricted to professional users.





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### 16: OTHER INFORMATION

#### RISK PHRASES IN FULL

R10	Flammable.
R20/21	Harmful by inhalation and in contact with skin.
R20	Harmful by inhalation.
R48/20/21/22	Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.
R11	Highly flammable.
R38	Irritating to skin.
R45	May cause cancer.
R61	May cause harm to the unborn child.
R43	May cause sensitisation by skin contact.
R62	Possible risk of impaired fertility.
R68	Possible risk of irreversible effects.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
R50	Very toxic to aquatic organisms.

Users must always refer to the most recent data sheet. Upon request, additional copies will be provided. This technical data sheet is given in good faith and does not guarantee the optimum utility of the product always. The information contained herein is believed to be reliable to the best of our knowledge. ASAS is exempted from all legal liability in case of injury incurred from product handling without appropriate technical precautions. ASAS reserves the right to change the product specifications or properties. All orders are considered based on current delivery and sale infrastructures.

The contents of this document are pertaining to the application and usage of Gulftight products, are given based on the technical expertise of capable personnel concerning the product. The handling and storage of the item has been kept under supervision, observation and extensive research has been conducted to ensure its efficiency under normal conditions.

