



## GRIPTOP MD HARDENER

**6 ACCIDENTAL RELEASE MEASURES**

## PERSONAL PRECAUTIONS

Use protective gloves, goggles and suitable protective clothing. Avoid contact with skin and eyes. In case of inadequate ventilation, use respiratory protection.

## ENVIRONMENTAL PRECAUTIONS

Avoid discharge into drains, water courses or onto the ground.

## SPILL CLEAN UP METHODS

Dam and absorb spillage with damp sand, sawdust or other suitable absorbent material. Transfer to a container for disposal. Do not close container tightly. Risk of excess pressure build-up. Keep damp in a safe well ventilated area for several days

**7 HANDLING AND STORAGE**

## USAGE PRECAUTIONS

Avoid contact with skin and eyes. Avoid inhalation of vapours. Provide good ventilation.

## STORAGE PRECAUTIONS

Keep separate from food, feedstuffs, fertilisers and other sensitive material. Store in tightly closed original container in a dry, cool and well-ventilated place.

**8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
DIPHENYLMETHANE-4,4'-DI-ISOCYANATE	WEL		0.02 mg/m3(Sen)		0.07 mg/m3(Sen)	

WEL = Workplace Exposure Limit.

## ENGINEERING MEASURES

Provide adequate general and local exhaust ventilation. Observe Workplace Exposure Limits and minimise the risk of inhalation of vapours.

## RESPIRATORY EQUIPMENT

In the case of hypersensitivity of the respiratory tract (eg asthmatics and those who suffer from chronic bronchitis) it is inadvisable to work with this product. In case of inadequate ventilation use a respirator suitable for organic vapours. Consult respirator manufacturer for specific advice.

## HAND PROTECTION

Protective gloves should be used if there is a risk of direct contact or splash. Nitrile gloves to BSEN374 are recommended. Break through times can vary depending on thickness, use and source. Change gloves regularly.

## EYE PROTECTION

If there is a risk of splashing, wear chemical resistant goggles or visor approved to BS EN166.

## OTHER PROTECTION

Wear suitable protective clothing as protection against splashing or contamination.

## HYGIENE MEASURES

When using do not eat, drink or smoke. Remove contaminated clothing and wash the skin thoroughly with soap and water after work.

## PERSONAL PROTECTION

Always check applicability with your supplier of protective equipment.

**9 PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE	Viscous liquid		
COLOUR	Dark Brown		
ODOUR	Musty		
SOLUBILITY	Immiscible with water		
BOILING POINT (°C)	>230	RELATIVE DENSITY	1.2 approx @ 20 degC
pH-VALUE, CONC. SOLUTION	N/A	VISCOSITY	3-5 Pas @25degC
FLASH POINT (°C)	>200 CC (Closed cup).		

**10 STABILITY AND REACTIVITY**

## STABILITY

Stable under the prescribed storage conditions.

## CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition.

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**MATERIALS TO AVOID**

Amines. Alcohols, glycols. Reacts with water forming carbon dioxide. Risk of bursting owing to increased pressure in closed containers.

**HAZARDOUS DECOMPOSITION PRODUCTS**

During fire, toxic gases (CO, CO2, NOx) are formed.

**11 TOXICOLOGICAL INFORMATION**

**GENERAL INFORMATION**

Preparation contains small volumes of isocyanate which may cause allergic reaction and irritation of respiratory system.

**INHALATION**

Vapours irritate the respiratory system, and may cause coughing and difficulties in breathing. May cause sensitisation by inhalation.

**INGESTION**

May cause discomfort if swallowed.

**SKIN CONTACT**

Prolonged or repeated contact may lead to skin sensitisation

**EYE CONTACT**

Irritation of eyes and mucous membranes.

**12 ECOLOGICAL INFORMATION**

**ECOTOXICITY**

The product should not be allowed to enter drains, sewers or watercourses.

**DEGRADABILITY**

The product reacts with water to form a solid insoluble reaction product which is non-degradable, according to information available.

**13 DISPOSAL CONSIDERATIONS**

**DISPOSAL METHODS**

Should be disposed of as hazardous waste via a licensed waste operator. Small quantities may be treated with an equivalent quantity of product resin, allowed to cure and disposed of as low hazard waste.

**WASTE CLASS**

Hazardous Waste Code for Product : 080501\* ; Contaminated empty container: 150110\*

**14 TRANSPORT INFORMATION**

**GENERAL**

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

No transport warning sign required.

**ADR CLASS**

Not classified for transportation.

MARINE POLLUTANT

No.

**15 REGULATORY INFORMATION**

**LABELLING**



Harmful

**CONTAINS**

DIPHENYLMETHANE-4,4'-DI-ISOCYANATE

**RISK PHRASES**

R20

Harmful by inhalation.

R36/37/38

Irritating to eyes, respiratory system and skin.

R42/43

May cause sensitisation by inhalation and skin contact.

**SAFETY PHRASES**

S23

Do not breathe vapour/spray.

S24/25

Avoid contact with skin and eyes.

S26

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
P4	Contains isocyanates. See information supplied by the manufacturer.

## 16 OTHER INFORMATION

### GENERAL INFORMATION

Don Construction Products Ltd. Technical Datasheet.

### INFORMATION SOURCES

Health and Safety Executive Guidance Note EH40 (amended annually). Workplace Exposure Limits.

### REVISION COMMENTS

Section 1 : Removal of emergency phone number.

REVISION DATE 07/01/10

REV. NO./REPL. SDS GENERATED 5

### RISK PHRASES IN FULL

R20 Harmful by inhalation.

R36/37/38 Irritating to eyes, respiratory system and skin.

R42/43 May cause sensitisation by inhalation and skin contact.