

SAFETY DATA SHEET

TRADEWELD DELAM TX (HARDENER)

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name Tradeweld DeLam TX (Hardener)
Product number TG92

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Adhesive.

1.3. Details of the supplier of the safety data sheet

Supplier Trade Grade Products Ltd
10 Victory Close, Woolsbridge Industrial Park
Three Legged Cross, Wimborne, Dorset
BH21 6SX

Tel: +44 (0)1202 820177, (Mon-Fri 8:30-16:30)
Fax: +44 (0)1202 814011
sales@thegluepeople.co.uk

1.4. Emergency telephone number +44 (0)1202 820177

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards

Not Classified

Health hazards

Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 3 - H331 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317

Environmental hazards

Aquatic Chronic 3 - H412

Classification (67/548/EEC or 1999/45/EC)

Xn;R21/22. C;R34. R43. R52/53.

2.2. Label elements

Pictogram



Signal word

Danger

Hazard statements

H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H331 Toxic if inhaled.
H412 Harmful to aquatic life with long lasting effects.

TRADEWELD DELAM TX (HARDENER)**Precautionary statements**

P260 Do not breathe vapour/spray.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
 P302+P352 IF ON SKIN: Wash with plenty of water.
 P304+P340 IF INHALED: Remove person to fresh air and keep 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.
 P501 Dispose of contents/container in accordance with national regulations.

Contains

ISOPHORONEDIAMINE, DIETHYLENETRIAMINE, 4,4'-ISOPROPYLIDENEDIPHENOL

2.3. Other hazards**SECTION 3: Composition/information on ingredients****3.2. Mixtures**

ISOPHORONEDIAMINE 60-100% CAS number: 2855-13-2 EC number: 220-666-8	
Classification Acute Tox. 4 - H302 Acute Tox. 4 - H312 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Aquatic Chronic 3 - H412	Classification (67/548/EEC or 1999/45/EC) C;R34 Xn;R21/22 R43 R52/53
DIETHYLENETRIAMINE 10-30% CAS number: 111-40-0 EC number: 203-865-4	
Classification Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 2 - H330 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 STOT SE 3 - H335	Classification (67/548/EEC or 1999/45/EC) C;R34 Xn;R21/22 R43
4,4'-ISOPROPYLIDENEDIPHENOL 1-5% CAS number: 80-05-7 EC number: 201-245-8	
Classification Eye Dam. 1 - H318 STOT SE 3 - H335 Skin Sens. 1 - H317 Repr. 2 - H361f	Classification (67/548/EEC or 1999/45/EC) Repr. Cat. 3;R62 R43 Xi;R37,R41

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures**4.1. Description of first aid measures****Inhalation**

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any

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discomfort continues.

Ingestion

DO NOT induce vomiting. Get medical attention immediately. Promptly get affected person to drink large volumes of water to dilute the swallowed chemical.

Skin contact

Wash skin thoroughly with soap and water or use an approved skin cleanser. Do not use organic solvents.

Eye contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Seek medical attention and bring along these instructions.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation

Toxic by inhalation.

Ingestion

Harmful if swallowed. Causes burns.

Skin contact

This product is corrosive. May cause sensitisation by skin contact.

Eye contact

The product is irritating to eyes and skin.

4.3. Indication of any immediate medical attention and special treatment needed

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards

In case of fire, toxic and corrosive gases may be formed.

Hazardous combustion products

Oxides of carbon. Oxides of nitrogen.

5.3. Advice for firefighters

Protective actions during firefighting

Use special protective clothing. Control run-off water by containing and keeping it out of sewers and watercourses.

Special protective equipment for firefighters

Use protective equipment appropriate for surrounding materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

No smoking, sparks, flames or other sources of ignition near spillage. Avoid contact with skin, eyes and clothing. Do not breathe vapour.

6.2. Environmental precautions

Environmental precautions

Do not discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

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Contain spillage with sand, earth or other suitable non-combustible material. Collect and place in suitable waste disposal containers and seal securely.

6.4. Reference to other sections

Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions

Avoid inhalation of vapours/spray and contact with skin and eyes. Provide adequate ventilation.

Advice on general occupational hygiene

Wash at the end of each work shift and before eating, smoking and using the toilet.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions

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

7.3. Specific end use(s)

Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

Usage description

Do not use outside manufacturers specification.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

DIETHYLENETRIAMINE

Long-term exposure limit (8-hour TWA): WEL 1 ppm(Sk) 4.3 mg/m³(Sk)

Short-term exposure limit (15-minute): WEL

4,4'-ISOPROPYLIDENEDIPHENOL

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ inhalable dust

WEL = Workplace Exposure Limit

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

As this product contains ingredients with exposure limits, process enclosures, local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits, if use generates dust, fumes, gas, vapour or mist.

Eye/face protection

Wear eye protection.

Hand protection

Wear protective gloves made of the following material: Butyl rubber. Neoprene.

Other skin and body protection

Wear protective clothing.

Hygiene measures

Wash at the end of each work shift and before eating, smoking and using the toilet.

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Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn.

Environmental exposure controls

Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance

Clear, yellowish liquid.

Odour

Mild.

Melting point

5C

Initial boiling point and range

130C at 760mm Hg

Flash point

95C

Solubility(ies)

Insoluble in water at 20C. Partially miscible with water.

Viscosity

Approx 12 poise at 25C

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

10.2. Chemical stability

Stability

Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid

Keep away from heat, sparks and open flame.

10.5. Incompatible materials

Materials to avoid

Avoid contact with acids and alkalis. Avoid contact with strong oxidising agents.

10.6. Hazardous decomposition products

In case of fire, toxic gases (CO, CO₂, NO_x) may be formed.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg)

512.29508197

Acute toxicity - dermal

ATE dermal (mg/kg)

1248.58115778

Acute toxicity - inhalation

ATE inhalation (gases ppm)

47368.42105263

TRADEWELD DELAM TX (HARDENER)**ATE inhalation (vapours mg/l)**

3.69499496

ATE inhalation (dusts/mists mg/l)

15.78947368

SECTION 12: Ecological Information**Ecotoxicity**

Dangerous for the environment.

12.1. Toxicity**12.2. Persistence and degradability****Persistence and degradability**

The product is not readily biodegradable.

12.3. Bioaccumulative potential**12.4. Mobility in soil****12.5. Results of PBT and vPvB assessment****12.6. Other adverse effects****SECTION 13: Disposal considerations****13.1. Waste treatment methods****General information**

Dispose of waste product or used containers in accordance with local regulations

Disposal methods

Dispose of waste via a licensed waste disposal contractor.

SECTION 14: Transport information**14.1. UN number**

UN No. (ADR/RID)	1760
UN No. (IMDG)	1760
UN No. (ICAO)	1760
UN No. (ADN)	1760

14.2. UN proper shipping name

Proper shipping name (ADR/RID)	CORROSIVE LIQUID, N.O.S. (CONTAINS ISOPHORONE DIAMINE AND DIETHYLENETRIAMINE)
Proper shipping name (IMDG)	CORROSIVE LIQUID, N.O.S. (CONTAINS ISOPHORONE DIAMINE AND DIETHYLENETRIAMINE)
Proper shipping name (ICAO)	CORROSIVE LIQUID, N.O.S. (CONTAINS ISOPHORONE DIAMINE AND DIETHYLENETRIAMINE)
Proper shipping name (ADN)	CORROSIVE LIQUID, N.O.S. (CONTAINS ISOPHORONE DIAMINE AND DIETHYLENETRIAMINE)

14.3. Transport hazard class(es)

ADR/RID class	8
ADR/RID classification code	C9
ADR/RID label	8
IMDG class	8
ICAO class/division	8
ADN class	8

TRADEWELD DELAM TX (HARDENER)**Transport labels****14.4. Packing group**

ADR/RID packing group	III
IMDG packing group	III
ICAO packing group	III
ADN packing group	III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

EmS	F-A, S-B
ADR transport category	3
Emergency Action Code	2X
Hazard Identification Number (ADR/RID)	80
Tunnel restriction code	(E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU legislation**

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Issued by	QSHE Manager
Revision date	20/04/2015
Risk phrases in full	<p>R20/22 Harmful by inhalation and if swallowed.</p> <p>R21/22 Harmful in contact with skin and if swallowed.</p> <p>R34 Causes burns.</p> <p>R37 Irritating to respiratory system.</p> <p>R41 Risk of serious damage to eyes.</p> <p>R43 May cause sensitisation by skin contact.</p> <p>R52 Harmful to aquatic organisms.</p> <p>R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</p> <p>R62 Possible risk of impaired fertility.</p>

Hazard statements in full

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H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H330 Fatal if inhaled.
H331 Toxic if inhaled.
H335 May cause respiratory irritation.
H361f Suspected of damaging fertility.
H412 Harmful to aquatic life with long lasting effects.

Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.