



**SAFETY DATA SHEET**  
FORCE 3G INSTANT ADHESIVE

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Revision No: 4

**Section 1: Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**

**Product name:** FORCE 3G INSTANT ADHESIVE

**Product code:** X60328

**Synonyms:** 895FC

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

**Use of substance / mixture:** Epoxy hardener preparation To be used in conjunction with Resin Pack

**1.3. Details of the supplier of the safety data sheet**

**Company name:** Force Products Ltd

Stock House

Seymour Road

Nuneaton

Warwickshire

CV11 4LB

UK

**Tel:** +44 (0) 2476 322130

**Fax:** +44 (0) 2476 322151

**Email:** [sales@forceproducts.co.uk](mailto:sales@forceproducts.co.uk)

**1.4. Emergency telephone number**

**Section 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**Classification under CHIP:** Xn: R20/21; Xi: R36/38

**Classification under CLP:** Skin Corr. 1B: H314

**Most important adverse effects:** Harmful by inhalation and in contact with skin. Irritating to eyes and skin.

**2.2. Label elements**

**Label elements under CLP:**

**Hazard statements:** H314: Causes severe skin burns and eye damage.

**Signal words:** Danger

**Hazard pictograms:** GHS05: Corrosion



**Precautionary statements:** P102: Keep out of reach of children.

P264: Wash exposed skin thoroughly after handling.

[cont...]

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P280: Wear protective gloves/protective clothing/eye protection/face protection.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P321: Specific treatment (see information on this label).

P405: Store locked up.

### Label elements under CHIP:

**Hazard symbols:** Harmful.



**Risk phrases:** R20/21: Harmful by inhalation and in contact with skin.

R36/38: Irritating to eyes and skin.

**Safety phrases:** S2: Keep out of the reach of children.

S36/37: Wear suitable protective clothing and gloves.

S46: If swallowed, seek medical advice immediately and show this container or label.

### 2.3. Other hazards

**Other hazards:** Causes severe irritation and burns to all tissues contacted. Harmful if swallowed or inhaled.

**PBT:** This product is not identified as a PBT/vPvB substance.

## Section 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous ingredients:

TETRAMETHYL BIS(AMINOETHYL) ETHER - REACH registered number(s): 05-2115401711-63-0000

EINECS	CAS	CHIP Classification	CLP Classification	Percent
-	3033-62-3	Xn: R22; T: R23/24; C: R34	Skin Corr. 1B: H314; Acute Tox. 3: H311; Acute Tox. 4: H302; Acute Tox. 4: H332	1-10%

DIAZABICYCLO(5.4.0) UNDEC-7-ENE, 1, 8 - REACH registered number(s): 05-2115401720-64-0000

EINECS	CAS	CHIP Classification	CLP Classification	Percent
-	6674-22-2	Xn: R22; C: R34; -: R52/53	Acute Tox. 4: H302; Skin Corr. 1B: H314; Aquatic Chronic 3: H412	1-10%

## Section 4: First aid measures

### 4.1. Description of first aid measures

**Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin.

Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.

**Eye contact:** Immediately flush with plenty of water for at least 15 mins holding eyelids apart to ensure flushing of the entire surface. Washing within one minute is essential to achieve maximum effectiveness. Obtain medical attention.

[cont...]

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**Ingestion:** Do not induce vomiting. Give large amounts of water followed by milk if available. If vomiting should occur spontaneously, keep airway clear. Get medical attention. Never give anything by mouth to an unconscious person.

**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious and breathing is OK, place in the recovery position. If conscious, ensure the casualty sits or lies down. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.

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

**Skin contact:** Causes severe skin irritation or burns. Avoid contact

**Eye contact:** Causes severe irritation and burns. Possible permanent injury or blindness.

**Ingestion:** Can cause gastrointestinal tract irritation, nausea, vomiting, diarrhea and possible burns to mucous membranes.

**Inhalation:** Mist or vapour can cause respiratory tract irritation and possible burns to mucous membranes.

**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

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

**Immediate / special treatment:** Eye bathing equipment should be available on the premises.

## Section 5: Fire-fighting measures

### 5.1. Extinguishing media

**Extinguishing media:** Water spray. Carbon dioxide. Foam. Dry chemical powder.

### 5.2. Special hazards arising from the substance or mixture

**Exposure hazards:** Corrosive. In combustion emits toxic fumes.

### 5.3. Advice for fire-fighters

**Advice for fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes. Cool fire-exposed containers with water.

## Section 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions:** Notify the police and fire brigade immediately. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid.

### 6.2. Environmental precautions

**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.

[cont...]

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### 6.3. Methods and material for containment and cleaning up

**Clean-up procedures:** Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Wear adequate protective clothing and equipment.

### 6.4. Reference to other sections

**Reference to other sections:** Refer to section 8 of SDS.

## Section 7: Handling and storage

### 7.1. Precautions for safe handling

**Handling requirements:** Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage conditions:** Store in cool, well ventilated area. Keep container tightly closed. Keep at temperatures of between 5 and 40degC. Do not store together with epoxy constituents. Keep out of the reach of children.

### 7.3. Specific end use(s)

**Specific end use(s):** No data available.

## Section 8: Exposure controls/personal protection

### 8.1. Control parameters

**Workplace exposure limits:** No data available.

### DNEL/PNEC Values

**DNEL / PNEC** No data available.

### 8.2. Exposure controls

**Engineering measures:** Ensure there is sufficient ventilation of the area. If product is handled in an open system, the use of process enclosures, local exhaust ventilation, and/or other engineering controls should be considered to control airborne levels to below recommended exposure limits, or below acceptable levels.

**Respiratory protection:** Self-contained breathing apparatus must be available in case of emergency. Use a NIOSH approved full-face respirator with organic vapour acid gas cartridge when handling this material if warranted.

**Hand protection:** Wear chemical resistance gloves such as rubber, neoprene or vinyl, and work clothing with full length sleeves.

**Eye protection:** Tightly fitting safety goggles. Ensure eye bath is to hand.

**Skin protection:** Impermeable protective clothing.

[cont...]

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**Section 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

**State:** Liquid

**Colour:** Yellow/Amber

**Odour:** Mercaptan-like odour

**Solubility in water:** Dispersible in water

**Flash point°C:** >93

**Relative density:** 1.12

**9.2. Other information**

**Other information:** No data available.

**Section 10: Stability and reactivity**

**10.1. Reactivity**

**Reactivity:** Stable under recommended transport or storage conditions.

**10.2. Chemical stability**

**Chemical stability:** Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

**Hazardous reactions:** Hazardous reactions will not occur under normal transport or storage conditions.

Decomposition may occur on exposure to conditions or materials listed below.

**10.4. Conditions to avoid**

**Conditions to avoid:** None established.

**10.5. Incompatible materials**

**Materials to avoid:** Strong oxidising agents.

**10.6. Hazardous decomposition products**

**Haz. decomp. products:** In combustion emits toxic fumes of carbon dioxide / carbon monoxide. In combustion emits toxic fumes of nitrogen oxides. In combustion emits toxic fumes of sulphur oxides.  
Hydrogen sulphides

**Section 11: Toxicological information**

**11.1. Information on toxicological effects**

**Toxicity values:**

Route	Species	Test	Value	Units
ORL	RAT	LD50	>3000	mg/kg

[cont...]

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**Hazardous ingredients:**

**TETRAMETHYL BIS(AMINOETHYL) ETHER**

DERMAL	RBT	LD50	750	mg/kg
ORAL	RAT	LD50	570	mg/kg
VAPOURS	RAT	LD50	2.2	mg/l

**Relevant effects for mixture:**

Effect	Route	Basis
Acute toxicity (harmful)	INH DRM	Hazardous: calculated
Irritation	OPT DRM	Hazardous: calculated

**Symptoms / routes of exposure**

**Skin contact:** Causes severe skin irritation or burns. Avoid contact

**Eye contact:** Causes severe irritation and burns. Possible permanent injury or blindness.

**Ingestion:** Can cause gastrointestinal tract irritation, nausea, vomiting, diarrhea and possible burns to mucous membranes.

**Inhalation:** Mist or vapour can cause respiratory tract irritation and possible burns to mucous membranes.

**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

**Section 12: Ecological information**

**12.1. Toxicity**

**Ecotoxicity values:** No data available.

**12.2. Persistence and degradability**

**Persistence and degradability:** No data available.

**12.3. Bioaccumulative potential**

**Bioaccumulative potential:** No data available.

**12.4. Mobility in soil**

**Mobility:** No data available

**12.5. Results of PBT and vPvB assessment**

**PBT identification:** This product is not identified as a PBT/vPvB substance.

**12.6. Other adverse effects**

**Other adverse effects:** No data available.

**Section 13: Disposal considerations**

**13.1. Waste treatment methods**

**Disposal operations:** Transfer to a suitable container and arrange for collection by specialised disposal company.

[cont...]

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**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

**Section 14: Transport information**

**14.1. UN number**

**UN number:** UN3267

**14.2. UN proper shipping name**

**Shipping name:** CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.(Mercaptan/amine Blend)  
(TETRAMETHYL BIS(AMINOETHYL) ETHER; DIAZABICYCLO(5.4.0) UNDEC-7-ENE, 1,  
8)

**14.3. Transport hazard class(es)**

**Transport class:** 8

**14.4. Packing group**

**Packing group:** III

**14.5. Environmental hazards**

**Environmentally hazardous:** No

**Marine pollutant:** No

**14.6. Special precautions for user**

**Special precautions:** No special precautions.

**Tunnel code:** E

**Transport category:** 1

**Section 15: Regulatory information**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**15.2. Chemical Safety Assessment**

**Chemical safety assessment:** A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

**Section 16: Other information**

**Other information**

**Other information:** This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

\* indicates text in the SDS which has changed since the last revision.

**Phrases used in s.2 and s.3:** H302: Harmful if swallowed.

H311: Toxic in contact with skin.

H314: Causes severe skin burns and eye damage.

H332: Harmful if inhaled.

H412: Harmful to aquatic life with long lasting effects.

[cont...]

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R20/21: Harmful by inhalation and in contact with skin.

R22: Harmful if swallowed.

R23/24: Toxic by inhalation and in contact with skin.

R34: Causes burns.

R36/38: Irritating to eyes and skin.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Legend to abbreviations:** PNEC = predicted no effect level

DNEL = derived no effect level

LD50 = median lethal dose

LC50 = median lethal concentration

EC50 = median effective concentration

IC50 = median inhibitory concentration

dw = dry weight

bw = body weight

cc = closed cup

oc = open cup

MUS = mouse

GPG = guinea pig

RBT = rabbit

HAM = hamster

HMN = human

MAM = mammal

PGN = pigeon

IVN = intravenous

SCU = subcutaneous

SKN = skin

DRM = dermal

OCC = ocular/corneal

PCP = physico-chemical properties

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.