



## Safety Data Sheet according to (EC) No 1907/2006 - ISO 11014-1

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Tangit FP 550 Fire Protection Part A

SDS no. : 188381  
V001.1

Revision: 05.12.2008  
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### 1. Identification of the substance/preparation and of the company/undertaking

**Trade name:**

Tangit FP 550 Fire Protection Part A

**Intended use:**

Foam, 2-component without propellant gas

**E-mail address of person responsible for Safety Data Sheet:**

ua-productsafety.de@henkel.com

**Emergency information:**

The Henkel information service also provides an around-the-clock telephone service on phone no.+49-(0)211-797-3350 for exceptional cases.

The product is notified at the 'Information Centers for Cases of Poisoning in Germany'. These centers provide information by telephone day and night in poisoning cases. Central emergency phone number: ++49 (0) 30 19240

### 2. Hazards identification

The product is classified as hazardous within the meaning of the valid (EU) preparation directive.

Xn - Harmful

R20 Harmful by inhalation.

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

R40 Limited evidence of a carcinogenic effect.

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

R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Persons suffering from allergic reactions to isocyanates should avoid contact with the product.

Persons suffering from allergic reactions to amines should avoid contact with the product.

### 3. Composition / information on ingredients

**General chemical description:**

Hardening component of a 2-component PU adhesive

**Base substances of preparation:**

4,4'-Methylenediphenyl diisocyanate (MDI)

Inorganic fillers

**Declaration of ingredients according to (EC) No 1907/2006:**

Hazardous components CAS-No.	EINECS ELINCS	content	Classification
Diphenylmethane-diisocyanate, isomers and homologues 9016-87-9		> 60 %	carcinogenic, category 3; Xn - Harmful; R40 Xn - Harmful; R20, R42/43, R48/20 Xi - Irritant; R36/37/38
Ethylenediamine, salt with phosphoric acid 14852-17-6	238-914-9	< 20 %	Xi - Irritant; R43

For full text of the R-Phrases indicated by codes see section 16 'Other Information'.

Substances without classification may have community workplace exposure limits available.

#### 4. First aid measures

**General information:**

In case of adverse health effects seek medical advice.

**Inhalation:**

Move to fresh air, consult doctor if complaint persists.

**Skin contact:**

Rinse with running water and soap. Skin care. Remove contaminated clothes immediately.

Fresh foam : Wipe off affected skin area immediately with a soft cloth and then remove residues with vegetable oil; apply skin care product. Cured foam can be removed only mechanically.

**Eye contact:**

Immediately flush eyes with water, put on a bandage with sterile gauze, see an oculist.

**Ingestion:**

Rinse out mouth. Do not drink.

Do not induce vomiting, seek medical advice immediately.

#### 5. Fire fighting measures

**Suitable extinguishing media:**

carbon dioxide, foam, powder, water spray jet, fine water spray

**Extinguishing media which must not be used for safety reasons:**

High pressure waterjet

**Special protection equipment for firefighters:**

Wear self-contained breathing apparatus.

Wear protective equipment.

**Special hazards by the product itself:**

In the event of a fire, carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>) can be released.

#### 6. Accidental release measures

**Personal precautions:**

Ensure adequate ventilation.

Wear protective equipment.

**Environmental precautions:**

Do not empty into drains / surface water / ground water.

**Clean-up methods:**

Remove with liquid-absorbing material (sand, peat, sawdust).

Dispose of contaminated material as waste according to item 13.

#### 7. Handling and storage

**Handling:**

Ensure that workrooms are adequately ventilated.

**Storage:**

Store in sealed original container protected against moisture.  
Frost-sensitive  
Keep away from heat and direct sunlight.  
Avoid strictly temperatures below + 2°C and above + 30 °C.  
Do not store together with food or other consumables (coffee, tea, tobacco, etc.).

**8. Exposure controls / personal protection****Components with specific control parameters for workplace:**

Valid for  
Germany  
Basis  
Germany - Occupational Exposure Limits

Ingredient	ppm	mg/m <sup>3</sup>	Type	Category	Remarks
4,4'-METHYLENDIPHENYLDIISOCYANAT, SUMME AUS DAMPF UND AEROSOLEN 101-68-8				Listed.	TRGS 900
4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate 101-68-8		0,05	Occupational Exposure Limit (OEL).	=2=	TRGS 900
4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate 101-68-8			STEL factor	1 Substance listed with both Peak factor and STEL factor. The Peak factor is supplied with the AGW values.	TRGS 900
4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate 101-68-8			Short Term Exposure Classification.	Category I: substances for which the localized effect has an assigned OEL or for substances with a sensitizing effect in respiratory passages.	TRGS 900

**Engineering controls:**

Ensure good ventilation/extraction.

**Respiratory protection:**

Suitable breathing mask when there is inadequate ventilation.  
Combination filter: A2 - P3

**Hand protection:**

For shorttime contact (e.g. as protection against splashes) protective gloves made from nitrile rubber (material thickness > 0.4 mm, break through time > 480 min) are recommended according to EN 374.  
In the case of longer and repeated contact please note that in practice the penetration times may be considerably shorter than those determined according to EN 374. The protective gloves must always be checked for their suitability for use at the specific workplace (e.g. mechanical and thermal stress, product compatibility, antistatic effects, etc.). The gloves must be replaced immediately at the first signs of wear and tear. The information provided by the manufacturers and given in the relevant trade association regulations for industrial safety must always be observed. We recommend that a hand care plan is drawn up in cooperation with a glove manufacturer and the trade association in accordance with the local operating conditions.

**Eye protection:**

Goggles which can be tightly sealed.

**Skin protection:**

suitable protective clothing

**General protection and hygiene measures:**

- Do not breath vapours.
- Avoid contact with skin and eyes. Remove soiled or soaked clothing immediately. Wash off any contamination that gets onto the skin with plenty of water and soap, skin care.
- When using the product avoid alcohol consumption.
- Do not eat, drink or smoke while working.
- Wash hands before work breaks and after finishing work.

## 9. Physical and chemical properties

**General characteristics:**

Appearance	liquid thixotropic beige
Odor:	neutral

**Phys./chem. properties:**

Density (23 °C (73.4 °F))	1,15 - 1,29 g/cm <sup>3</sup>
Solubility (qualitative) (20 °C (68 °F); Solvent: Water)	Reaction with water.

## 10. Stability and reactivity

**Conditions to avoid:**

No decomposition if used according to specifications.

**Materials to avoid:**

- Reacts with water: Pressure built up in closed vessel (CO<sub>2</sub>).
- Reacts with amines, alcohols, acids and alkalis.

**Hazardous decomposition products:**

None known

## 11. Toxicological information

**General toxicological information:**

- Cross-reactions with other isocyanate compounds are possible.
- Cross-reactions with other amine compounds are possible.

**Inhalative toxicity:**

- Irritating to respiratory system
- In the event of protracted or repeated exposure, damage to health cannot be excluded.

**Skin irritation:**

Primary skin irritation: irritating

**Eye irritation:**

Primary eye irritation: irritating

**Sensitizing:**

- May cause sensitization by inhalation.
- May cause sensitization by skin contact.

## 12. Ecological information

### **Persistence and degradability:**

#### **Ultimate biodegradation:**

The total of the organic components contained in the product achieve values below 60% BOD/COD or CO<sub>2</sub> liberation, or below 70% DOC reduction in tests for ease of degradability. Threshold values for 'readily degradable' (e.g. to OECD method 301) are not reached.

#### **General ecological information:**

Do not empty into drains, soil or bodies of water.

## 13. Disposal considerations

### **Product disposal:**

Dispose of waste and residues in accordance with local authority requirements.

After curing with component B :

Small amounts of cured or dried product residues can be disposed of as household waste or as industrial waste similar to household waste.

The valid EEC waste code numbers are not product-related but are largely source-related. The manufacturer is therefore unable to specify EEC waste codes for the articles or products used in the various sectors. These can be requested from the manufacturer.

### **Disposal of uncleaned packages:**

Use packages for recycling only when totally empty.

## 14. Transport information

### **General information:**

Not hazardous according to RID, ADR, ADNR, IMDG, IATA-DGR.

## 15. Regulations - classification and identification

### **Indication of danger:**

Xn - Harmful



### **Contains**

Diphenylmethane-diisocyanate, isomers and homologues,  
Ethylenediamine, salt with phosphoric acid

### **Risk phrases:**

R20 Harmful by inhalation.

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

R40 Limited evidence of a carcinogenic effect.

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

R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

**Safety phrases:**

- S23 Do not breathe vapour.
- 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 the label where possible).
- S46 If swallowed, seek medical advice immediately and show this container or label.
- S51 Use only in well-ventilated areas.

**Additional labeling:**

Contains isocyanates. See information supplied by the manufacturer.

**National regulations/information (Germany):**

WGK:	3, highly water-endangering product. (German VwVwS of May 17, 1999 ) Classification in conformity with the calculation method
BG regulations, rules, infos:	BG data sheet: BGI 524 Hazardous substances: polyurethane production and processing / isocyanates (M 044) BG regulation: BGV B 1 Handling hazardous substances
Storage class VCI:	10

**16. Other information**

The labelling of the product is indicated in Section 15. The full text of the R-phrases indicated by codes in this safety data sheet are as follows:

- R20 Also harmful by inhalation.
- R36/37/38 Irritating to eyes, respiratory system and skin.
- R40 Limited evidence of a carcinogenic effect.
- R42/43 May cause sensitization by inhalation and skin contact.
- R43 May cause sensitization by skin contact.
- R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

**Further information:**

The product is intended for industrial use.  
This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.