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

SDS no. : 260822
V001.1

Tangit FP100

Revision: 03.11.2008
printing date: 03.08.2009

1. Identification of the substance/preparation and of the company/undertaking

Trade name:
Tangit FP100

Intended use:
Sealant

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 guideline.
F+ - Extremely flammable
Xn - Harmful
R12 Extremely flammable.
R36/37/38 Irritating to eyes, respiratory system and skin.
R42/43 May cause sensitization by inhalation and skin contact.
Persons suffering from allergic reactions to isocyanates should avoid contact with the product.

3. Composition / information on ingredients

General chemical description:
1-Component PU foam in pressurized can

Base substances of preparation:
Polyurethane prepolymer with free 4,4'-methylenediphenyl diisocyanate (MDI)
Propellant gas base: dimethyl ether-isobutane/propane mixture

Declaration of ingredients according to EC/1907/2006:

Hazardous components CAS-No.	EINECS ELINCS	content	Classification
4,4'-Methylenediphenyl diisocyanate 101-68-8	202-966-0	5 - < 25 %	carcinogenic, category 3; Xn - Harmful; R40 Xn - Harmful; R20, R48/20, R42/43 Xi - Irritant; R36/37/38
Dimethyl ether 115-10-6	204-065-8	1 - < 20 %	F+ - Extremely flammable; R12
Isobutane 75-28-5	200-857-2	1 - < 25 %	F+ - Extremely flammable; R12
Propane 74-98-6	200-827-9	1 - < 25 %	F+ - Extremely flammable; R12

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.

Skin contact:
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.

5. Fire fighting measures

Suitable extinguishing media:
Powder
Foam.
Carbon dioxide.
Sand.
water spray jet

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) and carbon dioxide (CO2) can be released.

Additional information:
Cool endangered containers with water spray jet., Explosive bursting of containers is possible.

6. Accidental release measures

General information:
Keep away from sources of ignition and naked flames.

Personal precautions:
Ensure adequate ventilation.
Wear protective equipment.
Avoid contact with skin and eyes.

Environmental precautions:
Do not empty into drains / surface water / ground water.

Clean-up methods:
Remove mechanically.
Dispose of contaminated material as waste according to item 13.

7. Handling and storage

Handling:

Avoid skin and eye contact.
Ventilate working rooms thoroughly. Avoid naked flames, sparking and sources of ignition. Switch off electrical devices. Do not smoke, do not weld. Do not empty waste into waste water drains.
Transport by automobile: leave the container wrapped in a cloth in the trunk, never in the passenger area.

Storage:

For pressurized can: protect from direct sunshine and temperatures above 50°C.
Store in a cool, dry place.
Ensure that storage and workrooms are adequately ventilated.
Do not store together with flammable substances/solutions.
Do not store together with oxidants.
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/m³	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			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
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
dimethyl ether 115-10-6	1.000	1.900	Occupational Exposure Limit (OEL).	8 (II)	TRGS 900
DIMETHYLETHER 115-10-6	1.000	1.920	Time Weighted Average (TWA).		EU-2000/39/EC
dimethyl ether 115-10-6			Short Term Exposure Classification.	Category II: substances with a resorptive effect.	TRGS 900
ISOBUTAN 75-28-5	1.000	2.400	Occupational Exposure Limit (OEL).	4	TRGS 900
ISOBUTAN 75-28-5			Short Term Exposure Classification.	Category II: substances with a resorptive effect.	TRGS 900
PROPAN 74-98-6	1.000	1.800	Occupational Exposure Limit (OEL).	4	TRGS 900
PROPAN 74-98-6				Listed.	TRGS 900
PROPAN 74-98-6			Short Term Exposure Classification.	Category II: substances with a resorptive effect.	TRGS 900

Engineering controls:

Ensure good ventilation/extraction.
Avoid naked flames, sparking and sources of ignition.

Respiratory protection:

When processing large amounts.
Suitable breathing mask when there is inadequate ventilation.
Combination filter: A1-B1-P2

Hand protection:

For shorttime contact (e.g. as protection against splashes) protective gloves made from nitrile rubber are recommended according to EN 374.
material thickness > 0.4 mm
Perforation time > 240 minutes
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:

Avoid skin and eye contact.
Remove any dirt that gets onto the skin with vegetable oil; skin care.
Do not eat, drink or smoke while working.
When using the product avoid alcohol consumption.
Wash hands before work breaks and after finishing work.

9. Physical and chemical properties

General characteristics:

Appearance	Pressurized can pasty beige
Odor:	Characteristic

Phys./chem. properties:

Solubility (qualitative) (23 °C (73.4 °F); Solvent: Water)	Reacts with water: generation of heat.

10. Stability and reactivity

Conditions to avoid:

Container may burst when heated to over 50ºC. The contents may form explosive, combustible mixture. Avoid ignition sources and naked flames. Comply with warming on container label.

Materials to avoid:

Reacts with water: generation of heat.
Reacts with amines, alcohols, acids and alkalis.
Reacts with strong oxidants.

Hazardous decomposition products:

None known

11. Toxicological information

General toxicological information:
Cross-reactions with other isocyanate 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 CO2 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:
Collection and delivery to recycling enterprise or other registrated elimination institution.
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:
Completely empty pressurized gas containers (including propellant gas).
Only empty containers are to be disposed of as recoverable materials.
Empty PU foam canisters should be returned in the original carton to PDR GmbH, D-95449 Thurnau (free of charge collection service under tel.: 0800-783 6736, Fax: 0800-783 6737) for recycling. They can also be delivered to any general cargo collection point of the Deutsche Bahn AG. Individual containers should be disposed of at communal collection points.

14. Transport information

Road transport ADR:

Class:	2
Packaging group:	
Classification code:	5F
Hazard ident. number:	
UN no.:	1950
Label:	2.1
Technical name:	AEROSOLS

Railroad transport RID:

Class:	2
Packaging group:	
Classification code:	5F
Hazard ident. number:	23
UN no.:	1950
Label:	2.1
Technical name:	AEROSOLS

Inland water transport ADN:

Class:	2
Packaging group:	
Classification code:	5F
Hazard ident. number:	
UN no.:	1950
Label:	2.1
Technical name:	AEROSOLS

Marine transport IMDG:

Class:	2.1
Packaging group:	
UN no.:	1950
Label:	2.1
EmS:	F-D ,S-U
Seawater pollutant:	-
Proper shipping name:	AEROSOLS

Air transport IATA:

Class:	2.1
Packaging group:	
Packaging instructions (passenger)	203
Packaging instructions (cargo)	203
UN no.:	1950
Label:	2.1
Proper shipping name:	Aerosols, flammable

15. Regulations - classification and identification

Indication of danger:

F+ - Extremely flammable Xn - Harmful

Contains

4,4'-Methylenediphenyl diisocyanate

Risk phrases:

R12 Extremely flammable.
R36/37/38 Irritating to eyes, respiratory system and skin.
R42/43 May cause sensitization by inhalation and skin contact.

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).
S51 Use only in well-ventilated areas.

Additional labeling:

Contains isocyanates. Observe manufacturer's instructions!
Container under pressure. Protect against direct sunshine and temperatures above 50°C. Do not forcibly open after use or burn the container. Do not spray into flames or onto glowing objects. Keep away from ignition sources. Do not smoke. Keep out of the reach of children.

Contains 4,4'-Methylenediphenyl diisocyanate. May produce an allergic reaction.

National regulations/information (Germany):

WGK:	1, slightly water-endangering product. (German VwVwS of May 17, 1999) Classification in conformity with the calculation method
BG regulations, rules, infos:	
	BG regulation: BGV B 1 Handling hazardous substances BG data sheet: BGI 524 Hazardous substances: polyurethane production and processing / isocyanates (M 044)
Storage class VCI:	2B

16. Other information

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

R12 Extremely flammable.
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.

Further information:

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.