

Safety Data Sheet according to (EC) No 1907/2006

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sds no.: 41754

V001.11 Revision: 11.07.2012

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Tangit ABS

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

1.1. Product identifier

Tangit ABS

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

Intended use: Pipe adhesive

1.3. Details of the supplier of the safety data sheet

Henkel AG & Co. KGaA

Henkelstr. 67

40191 Düsseldorf

Germany

Phone: +49 (211) 797-0

ua-productsafety.de@henkel.com

1.4. Emergency telephone number

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (DPD):

F - Highly flammable

R11 Highly flammable.

Xi - Irritant

R36 Irritating to eyes.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

2.2. Label elements

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Label elements (DPD):

F - Highly flammable







Risk phrases:

R11 Highly flammable.

R36 Irritating to eyes.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

Safety phrases:

S2 Keep out of the reach of children.

S9 Keep container in a well-ventilated place.

S16 Keep away from sources of ignition - No smoking.

S25 Avoid contact with eyes.

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

S51 Use only in well-ventilated areas.

Further advice:

S37 Wear suitable gloves.

2.3. Other hazards

Solvents contained in the product evaporate during processing and their vapors can form explosive/highly inflammable air/vapor mixtures.

Pregnant women should absolutely avoid inhalation and skin contact.

SECTION 3: Composition/information on ingredients

General chemical description:

Adhesive solution

Base substances of preparation:

ABS copolymer

in a mixture of organic solvents

Declaration of the ingredients according to CLP (EC) No 1272/2008:

Hazardous components	EC Number	content	Classification
CAS-No.	REACH-Reg No.		
Butanone	201-159-0	> 50-< 60 %	Flammable liquids 2
78-93-3	01-2119457290-43		H225
			Specific target organ toxicity - single exposure 3 H336
			Serious eye irritation 2 H319
n-Butyl acetate 123-86-4	204-658-1	> 15-< 25 %	Flammable liquids 3 H226
			Specific target organ toxicity - single exposure 3 H336

For full text of the H - statements and other abbreviations see section 16 "Other information". Substances without classification may have community workplace exposure limits available.

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Declaration of ingredients according to DPD (EC) No 1999/45:

Hazardous components CAS-No.	EC Number REACH-Reg No.	content	Classification
Butanone 78-93-3	201-159-0 01-2119457290-43	> 50 - < 60 %	F - Highly flammable; R11 R67 Xi - Irritant; R36 R66
n-Butyl acetate 123-86-4	204-658-1	> 15 -< 25 %	R10 R66 R67

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.

SECTION 4: First aid measures

4.1. Description of 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.

Eye contact:

Immediately flush eyes with soft jet of water or eye rinse solution for at least 5 minutes. If pains remains (intensive smarting, sensivity to light, visual disturbance) continue flushing and contact/seek doctor or hospital.

Ingestion:

Rinse mouth and throat. Drink 1-2 glasses of water. Seek medical advice.

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

EYE: Irritation, conjunctivitis.

Repeated exposure may cause skin dryness or cracking.

Vapors may cause drowsiness and dizziness.

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

See section: Description of first aid measures

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

5.2. Special hazards arising from the substance or mixture

Can form explosive gas/air mixtures.

5.3. Advice for firefighters

Wear protective equipment.

Wear self-contained breathing apparatus.

Additional information:

Cool endangered containers with water spray jet.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Keep away from sources of ignition.

Wear protective equipment.

Danger of slipping on spilled product.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Dispose of contaminated material as waste according to Chapter 13.

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

6.4. Reference to other sections

See advice in chapter 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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.

Also to be noted when processing larger amounts (> 1 kg): during processing and drying after adhesion, ventilate well. Avoid all sources of fire such as stoves and ovens. Switch off all electrical devices such as parabolic heaters, hot plates, storage heaters etc. in good time for them to have cooled down before commencing work. Avoid all sparks, including those occurring at electrical switches and devices.

Avoid skin and eye contact.

Hygiene measures:

Do not breathe solvent vapors.

Avoid skin and eye contact.

Do not eat, drink or smoke while working.

Wash hands before work breaks and after finishing work.

7.2. Conditions for safe storage, including any incompatibilities

Ensure adequate ventilation.

Keep only in the original container.

Close the container carefully after use and store it at a good ventilated place.

Store protected from heat influence.

Temperatures between + 5 °C and + 35 °C

Do not store together with food or other consumables (coffee, tea, tobacco, etc.).

Do not store together with oxidants.

7.3. Specific end use(s)

Pipe adhesive

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters Valid for

Germany

Ingredient	ppm	mg/m³	Type	Category	Remarks
Butanone			Short Term Exposure	Category I: substances for	TRGS 900
78-93-3			Classification:	which the localized effect has	
				an assigned OEL or for	
				substances with a sensitizing	
				effect in respiratory passages.	
Butanone			Skin designation:	Can be absorbed through the	TRGS 900
78-93-3				skin.	
Butanone	200	600	AGW:	1	TRGS 900
78-93-3				If the AGW and BGW values	
				are complied with, there	
				should be no risk of	
				reproductive damage (see	
				Number 2.7).	
BUTANONE	200	600	Time Weighted Average	Indicative	ECTLV
78-93-3			(TWA):		
BUTANONE	300	900	Short Term Exposure	Indicative	ECTLV
78-93-3			Limit (STEL):		

Predicted No-Effect Concentration (PNEC):

Name on list	Environmental		Value		Remarks		
	Compartment	period					
			mg/l	ppm	mg/kg	others	
Butanone	aqua					55,8 mg/L	
78-93-3	(freshwater)						
Butanone	aqua (marine					55,8 mg/L	
78-93-3	water)						
Butanone	aqua					55,8 mg/L	
78-93-3	(intermittent						
	releases)						
Butanone	STP					709 mg/L	
78-93-3							
Butanone	sediment				284,7		
78-93-3	(freshwater)				mg/kg		
Butanone	sediment				284,7		
78-93-3	(marine water)				mg/kg		
Butanone	soil				22,5 mg/kg		
78-93-3							

Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Butanone 78-93-3	worker	dermal	Long term exposure - systemic effects		1161 mg/kg bw/day	
Butanone 78-93-3	worker	inhalation	Long term exposure - systemic effects		600 mg/m3	
Butanone 78-93-3	general population	dermal	Long term exposure - systemic effects		412 mg/kg bw/day	
Butanone 78-93-3	general population	inhalation	Long term exposure - systemic effects		106 mg/m3	
Butanone 78-93-3	general population	oral	Long term exposure - systemic effects		31 mg/kg bw/day	

8.2. Exposure controls:

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Respiratory protection:

Suitable breathing mask when there is inadequate ventilation.

Combination filter: ABEKP

This recommendation should be matched to local conditions.

Hand protection:

Recommended are gloves made from Nitril rubber (Material thickness >0,1 mm, Perforation time < 30s). Gloves should be replaced after each short time contact or contamination. Available at laboratory specialized trade or at pharmacies / chemist's shops.

In the case of longer contact protective gloves made from butyl rubber are recommended according to EN 374.

material thickness > 0,3 mm Perforation time > 30 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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance liquid

light, thixotropic, free-flowing

grey

Odor intensive, of ester

and keton

pH No data available / Not applicable

Initial boiling point 79,6 °C (175.3 °F)

Flash point -1 °C (30.2 °F); no method
Decomposition temperature No data available / Not applicable
Vapour pressure No data available / Not applicable

Density 0,8 - 0,9 g/cm3

(20 °C (68 °F)) Bulk density No data available / Not applicable

Viscosity 8.000 - 11.000 mPa.s

(Brookfield; 20 °C (68 °F))
Viscosity (kinematic)
No data available / Not applicable
Explosive properties
No data available / Not applicable

Solubility (qualitative) partially soluble

(20 °C (68 °F); Solvent: Water)
Solidification temperature
No data available / Not applicable

Melting point No data available / Not applicable Flammability No data available / Not applicable Auto-ignition temperature No data available / Not applicable

Explosive limits lower 1,2 %(V)

Solid content 23,0 - 25,0 %

(130 °C)
Oxidising properties
No data available / Not applicable

9.2. Other information

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No data available / Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

None if used for intended purpose.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity

10.4. Conditions to avoid

None if used for intended purpose.

10.5. Incompatible materials

None if used properly.

10.6. Hazardous decomposition products

None known

SECTION 11: Toxicological information

11.1. Information on toxicological effects

General toxicological information:

The preparation is classified based on the conventional method outlined in Article 6(1)(a) of Directive 1999/45/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

Inhalative toxicity:

The toxicity of the product is due to its narcotic effect after inhalation.

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

Vapors may cause drowsiness and dizziness.

Skin irritation:

Repeated exposure may cause skin dryness or cracking.

Eye irritation:

Primary eye irritation: irritating

Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Butanone 78-93-3	LD50 LC50 LD50	2.600 - 5.400 mg/kg > 5000 ppm 6.400 - 8.000 mg/kg	oral inhalation dermal	6 h	rat rat rabbit	
n-Butyl acetate 123-86-4	LD50 LC50	> 8.800 mg/kg > 23,4 mg/l	oral inhalation	4 h	rat rat	OECD Guideline 403 (Acute Inhalation Toxicity)

Skin corrosion/irritation:

Hazardous components	Result	Exposure	Species	Method
CAS-No.		time		
Butanone 78-93-3	moderately irritating		rabbit	
n-Butyl acetate 123-86-4	not irritating		rabbit	

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Serious eye damage/irritation:

Hazardous components	Result	Exposure	Species	Method
CAS-No.		time		
Butanone	irritating		rabbit	OECD Guideline 405 (Acute
78-93-3				Eye Irritation / Corrosion)
n-Butyl acetate	not irritating		rabbit	
123-86-4				

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Butanone 78-93-3	not sensitising	Guinea pig maximisat ion test	guinea pig	
n-Butyl acetate 123-86-4	not sensitising	Guinea pig maximisat ion test	guinea pig	

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Butanone 78-93-3	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
n-Butyl acetate 123-86-4	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		

Repeated dose toxicity

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Butanone	NOAEL=2500 ppm	inhalation	90 days 6 hours/day,	rat	
78-93-3			5 days/week		

SECTION 12: Ecological information

General ecological information:

The preparation is classified based on the conventional method outlined in Article 6(1)(a) of Directive 1999/45/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following. Do not empty into drains, soil or bodies of water.

12.1. Toxicity

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Butanone 78-93-3	LC50	3.220 mg/l	Fish	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute
Butanone 78-93-3	EC50	5.091 mg/l	Daphnia	48 h	Daphnia magna	Toxicity Test) OECD Guideline 202 (Daphnia sp. Acute Immobilisation
Butanone 78-93-3	EC50	> 1.000 mg/l	Algae			Test) OECD Guideline 201 (Alga, Growth Inhibition Test)
n-Butyl acetate 123-86-4	LC50	62 mg/l	Fish	96 h	Leuciscus idus	
n-Butyl acetate 123-86-4	EC50	72,8 mg/l	Daphnia	24 h	Daphnia magna	
n-Butyl acetate 123-86-4	EC50	674,7 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)

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12.2. Persistence and degradability

Hazardous components	Result	Route of	Degradability	Method
CAS-No.		application		
Butanone	readily biodegradable	aerobic	> 60 %	
78-93-3				
n-Butyl acetate	readily biodegradable	aerobic	98 %	OECD Guideline 301 D (Ready
123-86-4				Biodegradability: Closed Bottle
				Test)

12.3. Bioaccumulative potential / 12.4. Mobility in soil

Hazardous components	LogKow	Bioconcentration	Exposure	Species	Temperature	Method
CAS-No.		factor (BCF)	time			
Butanone	0,29					
78-93-3						
n-Butyl acetate	1,81				23 °C	OECD Guideline 107
123-86-4						(Partition Coefficient (n-
						octanol / water), Shake
						Flask Method)

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:

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

Disposal of uncleaned packages:

Use packages for recycling only when totally empty.

Waste code

08 04 09 waste adhesives and sealants containing organic solvents and other dangerous substances

SECTION 14: Transport information

Road transport ADR:

Class: 3
Packaging group: III
Classification code: F1
Hazard ident. number: 33
UN no.: 1133
Label: 3

Technical name: ADHESIVES

Tunnelcode: (D/E)

Additional information: Special provision 640H

Railroad transport RID:

Class: 3
Packaging group: III
Classification code: F1
Hazard ident. number: 33
UN no.: 1133
Label: 3

Technical name: ADHESIVES

Tunnelcode:

Additional information: Special provision 640H

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Inland water transport ADN:

Class: 3
Packaging group: III
Classification code: F1

Hazard ident. number:

UN no.: 1133 Label: 3

Technical name: ADHESIVES

Additional information: Special provision 640H

Marine transport IMDG:

Class: 3
Packaging group: III
UN no.: 1133
Label: 3
EmS: F-E ,S-D

Seawater pollutant:

Proper shipping name: ADHESIVES

Air transport IATA:

Class: 3
Packaging group: III
Packaging instructions (passenger) 355
Packaging instructions (cargo) 366
UN no.: 1133
Label: 3

Proper shipping name: Adhesives

SECTION 15: Regulatory information

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

VOC content 76,1 %

(VOCV 814.018 VOC regulation

CH)

National regulations/information (Germany):

WGK: 1, slightly water-endangering product. (German VwVwS of May 17, 1999)

Classification in conformity with the calculation method

Storage class VCI: 3

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SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text

of all abbreviations indicated by codes in this safety data sheet are as follows:

R10 Flammable.

R11 Highly flammable.

R36 Irritating to eyes.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

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.