



## Safety Data Sheet

TECHNOMELT PUR 3317 BR 20KG

Page 1 of 8

SDS No. : 56121

V001.5

Date of issue: 14.09.2020

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

**Product name:** TECHNOMELT PUR 3317 BR 20KG

**Intended use:** Adhesive for the graphic industry

**Supplier:**  
Henkel Australia Pty Ltd  
135-141 Canterbury Road  
Kilsyth, Victoria, 3137  
Australia

**Phone:** +61 (3) 9724 6444

**Emergency information:** 24 HOUR EMERGENCY CONTACT NUMBER: 1800 032 379

### Section 2. Hazards identification

#### Classification of the substance or mixture

Hazardous according to the criteria of Safe Work Australia.

#### GHS Classification:

##### Hazard Class

Respiratory sensitizer  
Skin sensitizer  
Carcinogenicity

##### Hazard Category

Category 1  
Category 1  
Category 2

#### Hazard pictogram:



#### Signal word:

Danger

<b>Hazard statement(s):</b>	H317 May cause an allergic skin reaction. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H351 Suspected of causing cancer.
<b>Precautionary Statement(s):</b>	
<b>Prevention:</b>	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves. P281 Use personal protective equipment as required. P285 In case of inadequate ventilation wear respiratory protection.
<b>Response:</b>	P302+P352 IF ON SKIN: Wash with plenty of water. P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. P308+P313 IF exposed or concerned: Get medical advice/attention. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P363 Wash contaminated clothing before reuse.
<b>Storage:</b>	P405 Store locked up.
<b>Disposal:</b>	P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations.

**Dangerous Goods information:**

Not classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).

**Section 3. Composition / information on ingredients**

<b>General chemical description:</b>	Substance
<b>General chemical description:</b>	Mixture
<b>Type of preparation:</b>	Polyurethane prepolymer with isocyanate groups 1-Component PU adhesive

**Identity of ingredients:**

Chemical ingredients	CAS-No.	Proportion
o-(p-Isocyanatobenzyl)phenyl isocyanate	5873-54-1	1- < 10 %
2,2'-Methylenediphenyl diisocyanate	2536-05-2	< 1 %
non hazardous ingredients~		60- < 100 %

**Section 4. First aid measures**

<b>Ingestion:</b>	Rinse mouth, do not induce vomiting, consult a doctor.
<b>Skin:</b>	Molten product. After skin contact cool down immediately with cold water. Do not remove adherent product. Seek medical advice.
<b>Eyes:</b>	After contact with the hot melt: cool with water, seek medical attention.
<b>Inhalation:</b>	Fresh air, oxygen supply, warmth; seek specialist medical attention. Delayed effects possible after inhalation.

<b>First Aid facilities:</b>	Eye wash and safety shower Normal washroom facilities
<b>Medical attention and special treatment:</b>	Treat symptomatically as for contact dermatitis or thermal burns.

### Section 5. Fire fighting measures

<b>Suitable extinguishing media:</b>	All common extinguishing agents are suitable. Water spray (fog), foam, dry chemical or carbon dioxide.
<b>Improper extinguishing media:</b>	High pressure waterjet
<b>Decomposition products in case of fire:</b>	Thermal decomposition can lead to release of irritating gases and vapors. carbon monoxide Carbon dioxide. Oxides of nitrogen. Isocyanates. Hydrogen cyanide.
<b>Special protective equipment for fire-fighters:</b>	Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA). Wear self-contained breathing apparatus.

### Section 6. Accidental release measures

<b>Personal precautions:</b>	Wear protective equipment. Avoid contact with skin and eyes. Keep unprotected persons away.
<b>Environmental precautions:</b>	Do not empty into drains / surface water / ground water.
<b>Clean-up methods:</b>	Allow to solidify. Remove mechanically. Dispose of contaminated material as waste according to Section 13.

### Section 7. Handling and storage

<b>Precautions for safe handling:</b>	Always be careful around molten material. Do not inhale vapors and fumes. Ensure adequate ventilation, especially in confined areas. Avoid skin and eye contact. Wear suitable protective clothing, safety glasses and gloves. See advice in section 8
<b>Conditions for safe storage:</b>	Store in sealed original container protected against moisture. Ensure good ventilation/extraction. Store in a cool place in closed original container. Ensure adequate ventilation. Store in a dry place.

### Section 8. Exposure controls / personal protection

**National exposure standards:**

Ingredient [Regulated substance]	form of exposure	TWA (ppm)	TWA (mg/m3)	Peak Limit. (ppm)	Peak Limit. (mg/m3)	STEL (ppm)	STEL (mg/m3)
ISOCYANATES, ALL (AS-NCO) 5873-54-1							0.07
ISOCYANATES, ALL (AS-NCO) 5873-54-1			0.02				
ISOCYANATES, ALL (AS-NCO) 2536-05-2							0.07
ISOCYANATES, ALL (AS-NCO) 2536-05-2			0.02				

**Engineering controls:**

Ensure good ventilation/extraction.

**Eye protection:**

Goggles which can be tightly sealed.

**Skin protection:**

Protective clothing that covers arms and legs.  
Wear refractive gloves while working with the hot melt.  
Please note that in practice the working life of chemical resistant gloves may be considerably reduced as a result of many influencing factors (e.g. temperature). Suitable risk assessment should be carried out by the end user. If signs of wear and tear are noticed then the gloves should be replaced.

**Respiratory protection:**

If inhalation risk exists, wear a respirator or air supplied mask complying with the requirements of AS/NZS 1715 and AS/NZS 1716.

**Section 9. Physical and chemical properties****Appearance:**

white  
Solid, crystalline

**Odor:**

characteristic

**pH:**

Not applicable

**Flash point:**

&gt; 200 °C (&gt; 392 °F)

**Vapor pressure:**

&lt; 0.03 mbar

(no method; 20 °C (68 °F))

**Density:**

1.1 g/cm3

**Solubility in water:**

Insoluble (20 °C)

**Viscosity (dynamic):**

2,500 - 4,500 mPa.s

(Brookfield; 130 °C (266 °F);

speed of rotation: 20 min-1;

Spindle No: 27; Method: ;; TIA-

PD-PD/HM PA10-049; viscosity

Brookfield (Purmelt))

**Section 10. Stability and reactivity****Stability:**

Stable under recommended storage conditions.

**Conditions to avoid:**

Humidity  
Heat.

**Incompatible materials:** Reaction with water, alcohols, amines.  
Reacts with water: Pressure built up in closed vessel (CO<sub>2</sub>).

**Hazardous decomposition products:** Thermal decomposition can lead to release of irritating gases and vapors.  
  
carbon monoxide  
carbon dioxide  
Oxides of nitrogen.  
Isocyanates.  
Hydrogen cyanide.

## Section 11. Toxicological information

**Health Effects:**

**Ingestion:** May cause gastrointestinal tract irritation if swallowed.

**Skin:** May cause mild skin irritation.

May cause allergic skin reaction.

When it is heated, this material may cause thermal burns.

**Eyes:** May cause mild irritation

Molten adhesive may cause severe burns.

**Inhalation:** May cause respiratory tract irritation.

May cause allergic respiratory reaction.

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

**Carcinogenicity:** Category 2 (Carcinogen), Suspected of causing cancer by inhalation.

**Acute toxicity:**

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
o-(p- Isocyanatobenzyl)phenyl isocyanate 5873-54-1	LD50 LD50	> 2,000 mg/kg > 9,400 mg/kg	oral  dermal		rat rabbit	other guideline: OECD Guideline 402 (Acute Dermal Toxicity)
2,2'-Methylenediphenyl diisocyanate 2536-05-2	LD50 LD50	> 2,000 mg/kg > 9,400 mg/kg	oral  dermal		rat rabbit	EU Method B.1 (Acute Toxicity (Oral)) OECD Guideline 402 (Acute Dermal Toxicity)

**Skin corrosion/irritation:**

Hazardous components CAS-No.	Result	Exposure time	Species	Method
o-(p- Isocyanatobenzyl)phenyl isocyanate 5873-54-1	irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

**Respiratory or skin sensitization:**

Hazardous components CAS-No.	Result	Test type	Species	Method
o-(p-Isocyanatobenzyl)phenyl isocyanate 5873-54-1	sensitising	Respirator y sensitisation	guinea pig	not specified
o-(p-Isocyanatobenzyl)phenyl isocyanate 5873-54-1	not sensitising	Buehler test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
o-(p-Isocyanatobenzyl)phenyl isocyanate 5873-54-1	sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
2,2'-Methylenediphenyl diisocyanate 2536-05-2	sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
2,2'-Methylenediphenyl diisocyanate 2536-05-2	sensitising	Respirator y sensitisation	guinea pig	not specified

**Germ cell mutagenicity:**

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
o-(p-Isocyanatobenzyl)phenyl isocyanate 5873-54-1	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
o-(p-Isocyanatobenzyl)phenyl isocyanate 5873-54-1	negative	inhalation		rat	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
2,2'-Methylenediphenyl diisocyanate 2536-05-2	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
2,2'-Methylenediphenyl diisocyanate 2536-05-2	negative	inhalation		rat	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

**Repeated dose toxicity:**

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
o-(p-Isocyanatobenzyl)phenyl isocyanate 5873-54-1	NOAEL=0,2 mg/m <sup>3</sup>	inhalation: aerosol	2 y6 h/d, 5 d/w	rat	OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
2,2'-Methylenediphenyl diisocyanate 2536-05-2	NOAEL=0,2 mg/m <sup>3</sup>	inhalation: aerosol	2 y6 h/d, 5 d/w	rat	OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

**Section 12. Ecological information**

**General ecological information:**

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

**Toxicity:**

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
o-(p-Isocyanatobenzyl)phenyl isocyanate 5873-54-1	LC50	> 1,000 mg/l	Fish	96 h	Danio rerio	OECD Guideline 203 (Fish, Acute Toxicity Test)
2,2'-Methylenediphenyl diisocyanate 2536-05-2	LC50	> 1,000 mg/l	Fish	96 h	Danio rerio	OECD Guideline 203 (Fish, Acute Toxicity Test)

**Bioaccumulative potential / Mobility in soil:**

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
o-(p-Isocyanatobenzyl)phenyl isocyanate 5873-54-1	5.22					not specified

**Section 13. Disposal considerations****Waste disposal of product:**

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

**Disposal for uncleaned package:**

Packaging that cannot be cleaned are to be disposed of in the same manner as the product.

**Section 14. Transport information****Road and Rail Transport:**

Dangerous Goods information:

Not classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).

**Marine transport IMDG:**

Not dangerous goods

**Air transport IATA:**

Not dangerous goods

**Section 15. Regulatory information****SUSMP Poisons Schedule**

None

**AICS:**

All components are listed or are exempt from listing on the Australian Inventory of Chemical Substances (AICS).

## Section 16. Other information

**Abbreviations/acronyms:**

ADGC - Australian Dangerous Goods Code  
GHS: Globally Harmonized System  
CAS: Chemical Abstracts Service  
OECD: Organization for Economic Cooperation and Development  
LD 50: Lethal Dose 50%  
LC 50: Lethal Concentration 50%  
IMDG: International Maritime Dangerous Goods code  
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations  
STEL - Short term exposure limit  
TWA - Time weighted average

**Reason for issue:**  
:

Reviewed MSDS. Reissued with new date. involved chapters: 2,3,7,9,16  
Updated composition in Section 3.

**Date of previous issue:**

30.09.2015

**Disclaimer:**

The percentage weight (% w/w) of ingredients is not to be taken as a specification guaranteed by Henkel Australia Pty. Limited, but only as an approximate guide to the content of hazardous ingredients in the material. The information contained herein does not constitute a guarantee by Henkel Australia Pty. Limited concerning the properties of the material.

The information contained in the Safety Data Sheet is offered in good faith and has been developed from what is believed to be accurate and reliable sources. The information is offered without warranty, representation, inducement or licence and Henkel Australia Pty. Limited assumes no legal responsibility for reliance upon same. Henkel Australia Pty. Limited disclaims any liability for loss, injury or damage incurred in connection with the use of the material or its associated Safety Data Sheet.

This information is not to be construed as a representation that the material is suitable for any particular purpose or use except those conditions and warranties implied by either Commonwealth or State statutes. Customers are encouraged to make their own enquiries as to the material's characteristics and, where appropriate, to conduct their own tests in the specific context of the material's intended use.

No warranty or representation of any kind is given with respect to the substantive or export laws of any other jurisdiction or country. Please confirm that the information provided herein conforms to the substantive export or other law of any other jurisdiction prior to export. Please contact Henkel Product Safety and Regulatory Affairs for additional assistance.