



Safety Data Sheet according to GB/T 16483-2008

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TECHNOMELT PA 646

SDS No. : 44194

V001.5

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

Product name: TECHNOMELT PA 646

Trade name: Macromelt OM 646

Intended use: Hotmelt adhesive

Manufacturer/Importer/Distributor Representative Company

Henkel Adhesive Technology (Shanghai) Co., Ltd.

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Revision date: 16.09.2020

Emergency information: Emergency telephone: +86 21 2891 8311 (24h).

2. Hazards identification

Classification of the substance or mixture according to GB 13690-2009 (General rule for classification and hazard communication of chemicals):

No classification required.

Label elements according to GB 15258-2009 (General rules for preparation of precautionary label for chemicals):

No classification required.

3. Composition / information on ingredients

General description: Mixture

Declaration of the ingredients according to GB 13690-2009:

Hazard component CAS-No.	Content	GHS Classification
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene 68411-46-1	1- < 2.5 %	Acute hazards to the aquatic environment 3 H402 Chronic hazards to the aquatic environment 3 H412

Only hazardous ingredients for which a classification according to GB 13690-2009 is already available are displayed in this table. For full text of the Hazard statements see section 16 "Other information".

4. First aid measures

Skin contact:	Molten product. After skin contact cool down immediately with cold water. Do not remove adherent product. Seek medical advice.
Eye contact:	After contact with the hot melt: cool with water, seek medical attention.
Inhalation:	Move to fresh air, consult doctor if complaint persists.
Ingestion:	Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

5. Fire fighting measures

Hazardous combustion products:	Oxides of carbon, oxides of nitrogen, irritating organic vapors.
Extinguishing media:	water, carbon dioxide, foam, powder
Notice and measures for firing fighting:	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

6. Accidental release measures

Emergency measures:	Wear protective equipment. Do not empty into drains / surface water / ground water.
Clean-up methods:	Allow to solidify. Remove mechanically. Dispose of contaminated material as waste according to Section 13.

7. Handling and storage

Notice for handling:	Do not wear contact lenses. Avoid skin contact with molten resins. Follow suggested application temperature. Do not place wet or damp solid into melt tank.
Notice for storage:	Always be careful around molten material. Refer to Technical Data Sheet

8. Exposure controls / personal protection

Hazardous components	GBZ 2.1-2019	ACGIH	NIOSH	OSHA
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	none	none		none

Engineering controls:	Ensure good ventilation/extraction.
Respiratory protection:	Suitable breathing mask when there is inadequate ventilation.
Eye protection:	Protective goggles
Body protection:	Wear protective equipment.

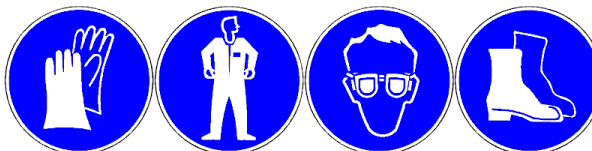
Hand protection:

Wear refractive gloves while working with the hot melt.

Other protection:

The selection of PPE shall at least compliant with "Law of the People's Republic of China on Prevention and Control of Occupational Diseases" and "Code of practice for selection of personal protective equipments" (GB/T 11651-2008).

Do not eat, drink or smoke while working. Wash hands before work breaks and after finishing work.

Pictograms for recommended PPE:**9. Physical and chemical properties**

Physical state:	solid	Appearance:	black
Evaporation rate:	Not available.	Odor:	typical
pH:	Not available.	Melting point:	Not available.
Boiling point:	Not available.	Density:	0.98 g/cm3
Vapor density:	Not available.	Vapor pressure:	Not available.
Flash point:	No flash point up to 200 °C	Ignition temperature:	Not available.
Lower explosive limit:	Not available.	Upper explosive limit:	Not available.
Solubility in water	Insoluble	Viscosity:	3,000 - 5,500 mPa.s
Auto-ignition temperature:	Not available.	Flammability:	Not available.
Octanol / water distribution coefficient:	Not available.	Decomposition temperature:	Not available.
VOC:	Bulk adhesive Thermoplastic Transportation, Assembly Industry < 50 g/kg , GB 33372-2020 Limit of volatile organic compounds content in adhesive		

10. Stability and reactivity

Stability:	Stable under recommended storage conditions.
Conditions to avoid:	Excessive heat.
Incompatible products:	None if used for intended purpose.
Decomposition products:	Carbon dioxide, carbon monoxide and irritating and/or toxic gases and particulate may be generated by thermal decomposition or combustion.

11. Toxicological information**General toxicological information:**

No laboratory animal data available.

Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene 68411-46-1	LD50	> 5,000 mg/kg	oral		rat	OECD Guideline 401 (Acute Oral Toxicity) equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity)
	LD50	> 2,000 mg/kg	dermal		rat	

12. Ecological information**General ecological information:**

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

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Benzenamine, N-phenyl-, reaction products with 2,4,4- trimethylpentene 68411-46-1	LC50	> 71 mg/l	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Benzenamine, N-phenyl-, reaction products with 2,4,4- trimethylpentene 68411-46-1	EC50	51 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Benzenamine, N-phenyl-, reaction products with 2,4,4- trimethylpentene 68411-46-1	EC50	> 100 mg/l	Algae	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Benzenamine, N-phenyl-, reaction products with 2,4,4- trimethylpentene 68411-46-1	NOEC	10 - 100 mg/l	Algae	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Benzenamine, N-phenyl-, reaction products with 2,4,4- trimethylpentene 68411-46-1	IC50	> 100 mg/l	Bacteria	3 h	activated sludge, domestic	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

Persistence and degradability:

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
Benzenamine, N-phenyl-, reaction products with 2,4,4- trimethylpentene 68411-46-1	not readily biodegradable.	aerobic	0 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)

Bioaccumulative potential / Mobility in soil:

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
Benzenamine, N-phenyl-, reaction products with 2,4,4- trimethylpentene 68411-46-1		> 411 - 1,730	42 d	Cyprinus carpio	24 °C	other guideline:
Benzenamine, N-phenyl-, reaction products with 2,4,4- trimethylpentene 68411-46-1	> 5				25 °C	QSAR (Quantitative Structure Activity Relationship)

13. Disposal considerations**Product disposal:**

Dispose of in accordance with local and national regulations.

Disposal of uncleaned packages:

After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated.

14. Transport information**Road transport CN_DG:**

Not dangerous goods

Marine transport IMDG:

Not dangerous goods

Air transport IATA:

Not dangerous goods

Notice For Transportation:

Transport according to local and national regulations. Ensure containers will not leak, collapse, or being damaged when transported. DO NOT transport with incompatible materials. Transportation vehicle should be equipped with right fire-fighting equipment in case of emergency. Avoid solarization, drenched and high temperature when transported.

15. Regulatory information

The following laws and regulations lay down provisions in terms of chemicals safety use, storage, transportation, loading/unloading, classification as well as symbol.

“Law of the People's Republic of China on Work Safety” (Adopted by the 28th meeting of 9th NPC standing committee on 29th June 2002, revised by 10th meeting of 12nd NPC standing committee on 31st Aug 2014).

Law of the People's Republic of China on the Prevention and Treatment of Occupational Diseases” (Adopted by the 24th meeting of 9th NPC standing committee on 27th October 2001, revised by 7th meeting of 13rd NPC standing committee on 29th Dec 2018).

“Law of the People's Republic of China on environmental protection” (Adopted by 11st meeting of 7th NPC standing committee on 26th December 1989, revised by 8th meeting of 12nd NPC standing committee on 24th Apr 2014).

“Regulation on the Safety Management of Hazardous Chemicals” (Adopted by 32nd State Council executive meeting on 4th December 2013).

“Regulations on License to Work Safety” (Adopted by 54th State Council executive meeting on 29th July 2014).

16. Other information

Issue date:

26.03.2022

Issue department:

Product Safety & Regulatory Affairs for China

Disclaimer:

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Others:

The full text of all abbreviations indicated by codes in this safety data sheet section 3 are as follows:

H402 Harmful to aquatic life.