TECHNOMELT PA 6481 BLACK BG20KG

SDS No. : 279475
V001.3
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Section 1. Identification of the substance/preparation and of the company/undertaking

Product name: TECHNOMELT PA 6481 BLACK BG20KG

Other means of identification: TECHNOMELT PA 6481 BLACK BG20KG
Product code: IDH1066640
Recommended use of the chemical and restrictions on use

Intended use: Special hotmelt, based on polyamide
Manufacturer/Importer/Distributor Representative Company

Henkel Adhesive Tech. Vietnam Co., Ltd,
No. 7, Road 9A Bien Hoa II Industrial Zone,
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Emergency Telephone for Chemical Accidents: FOR EMERGENCIES ONLY (Spill, major leak, Fire, Exposure, or Accident). Call: +84 28 71006388

Section 2. Hazards identification

GHS Classification:

Substance or mixture is not classified as hazardous according to Globally Harmonized System(GHS).

GHS label elements:

Substance or mixture is not classified as hazardous according to Globally Harmonized System(GHS).

Section 3. Composition / information on ingredients

Substance or Mixture:
Mixture

Declaration of hazardous chemical:

Hazard component CAS-No.	Content	GHS Classification
Carbon black - Nano 1333-86-4	1- 10 %	
Bis(4-(1,1,3,3-tetramethylbutyl)phenyl)amine 15721-78-5	1- 10 %	

Section 4. First aid measures

Inhalation:	Move to fresh air, consult doctor if complaint persists.
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.
Ingestion:	Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.
Indication of immediate medical attention and special treatment needed:	See section: Description of first aid measures

Section 5. Fire fighting measures

Suitable extinguishing media:	All common extinguishing agents are suitable.
Improper extinguishing media:	High pressure waterjet
Specific hazards arising from the chemical:	In the event of a fire, carbon monoxide (CO) and carbon dioxide (CO2) can be released.
Special protection equipment and precautions for firefighters:	Wear self-contained breathing apparatus. Wear protective equipment.

Section 6. Accidental release measures

Personal precautions:	Wear protective equipment. See advice in section 8
Environmental precautions:	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.

Section 7. Handling and storage

Handling:	Avoid skin and eye contact. Use only in well-ventilated areas. Gloves and safety glasses should be worn
Storage:	Ensure good ventilation/extraction.Keep only in original container. Store in a dry place. Temperatures between + 5 °C and + 35 °C.

Section 8. Exposure controls / personal protection

Components with specific control parameters for workplace:

CARBON BLACK, INHALABLE FRACTION 1333-86-4	**Value type**	Time Weighted Average (TWA):
	mg/m³	3
	Remarks	ACGIH
CARBON BLACK 1333-86-4	**Value type**	Time Weighted Average (TWA):
	mg/m³	3.5
	Remarks	VN OEL
CARBON BLACK 1333-86-4	**Value type**	Short-term exposure limit (STEL):
	mg/m³	7
	Remarks	VN OEL

Respiratory protection: In case of dust formation, we recommend wearing of appropriate respiratory protection equipment with particle filter P (EN 14387).
This recommendation should be matched to local conditions.

Hand protection: Wear heat resistance gloves while working with the hot melt (EN 407).

Eye protection: Protective goggles
Protective eye equipment should conform to EN166.

Body protection: Wear protective equipment.
Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Engineering controls: Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product.

General protection and hygiene measures: The workplace should be equipped with an emergency shower and eye-rinsing facility.

Hygienic measures: Wash hands before work breaks and after finishing work.
Do not eat, drink or smoke while working.
Take off contaminated clothing and wash before reuse.

Section 9. Physical and chemical properties

Appearance: Black
solid, Granulate
Odor: Characteristic
Odor threshold (CA): No data available.
pH: Not applicable, Product is non-soluble (in water).
Melting point / freezing point: 170 - 180 °C (338 - 356 °F)
Specific gravity: No data available.
Boiling point: > 280 °C (> 536 °F)
Flash point: Not applicable
Evaporation rate: No data available.
Flammability (solid, gas): The product is not flammable.
Lower explosive limit: No data available.
Upper explosive limit: No data available.
Vapor pressure: < 0.1 hPa
(; 20 °C (68 °F))
Vapor density: Not applicable, Product is a solid
Density: 0.95 - 1.01 g/cm3
Solubility: Insoluble (20 °C)

Partition coefficient: n-octanol/water: No data available.
Auto ignition: No data available.
Decomposition temperature: > 300 °C

Viscosity: 3,500 - 5,500 mPa.s (Brookfield; Instrument: RVT; 225 °C (437 °F); Method: ;HI-method EPA1B; Viscosity Brookfield (Thermosel))

VOC content: No data available.

Section 10. Stability and reactivity

Reactivity/Incompatible materials: None if used for intended purpose.
None if used properly.
Chemical stability: Stable under recommended storage conditions.
Conditions to avoid: No decomposition if used according to specifications.
Hazardous decomposition products: No decomposition if used according to specifications.

Section 11. Toxicological information

General toxicological information: To the best of our knowledge no harmful effects are to be expected if the product is handled and used properly.
Symptoms of Overexposure**:** No data available.

Acute oral toxicity:

Carbon black - Nano 1333-86-4	Value type	LD50
	Value	> 8,000 mg/kg
	Species	rat
	Method	OECD Guideline 401 (Acute Oral Toxicity)
Bis(4-(1,1,3,3-tetramethylbutyl)phenyl)amine 15721-78-5	Value type	LD50
	Value	> 5,000 mg/kg
	Species	rat
	Method	equivalent or similar to OECD Guideline 420 (Acute Oral Toxicity)

Acute inhalative toxicity:

Carbon black - Nano 1333-86-4	Value type	LC50
	Value	> 0.0046 mg/l
	Exposure time	4 h
	Species	rat
	Method	equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity)
Bis(4-(1,1,3,3-tetramethylbutyl)phenyl)amine 15721-78-5	Value type	LC50
	Value	> 5.8 mg/l
	Exposure time	1 h
	Species	rat
	Method	equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity)
Bis(4-(1,1,3,3-tetramethylbutyl)phenyl)amine 15721-78-5	Value type	Acute toxicity estimate (ATE)
	Value	> 1.45 mg/l
	Exposure time	4 h
	Species	
	Method	Expert judgement

Acute dermal toxicity:

Bis(4-(1,1,3,3-tetramethylbutyl)phenyl)amine 15721-78-5	Value type	Acute toxicity estimate (ATE)
	Value	> 5,000 mg/kg
	Species	
	Method	Expert judgement

Skin corrosion/irritation:

Carbon black - Nano 1333-86-4	Result	not irritating
	Exposure time	4 h
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Bis(4-(1,1,3,3-tetramethylbutyl)phenyl)amine 15721-78-5	Result	not irritating
	Exposure time	24 h
	Species	rabbit
	Method	equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

Carbon black - Nano 1333-86-4	Result	not irritating
	Exposure time	
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Bis(4-(1,1,3,3-tetramethylbutyl)phenyl)amine 15721-78-5	Result	not irritating
	Exposure time	
	Species	rabbit
	Method	equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

Carbon black - Nano 1333-86-4	Result	not sensitising
	Test type	Mouse local lymphnode assay (LLNA)
	Species	mouse
	Method	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Bis(4-(1,1,3,3-tetramethylbutyl)phenyl)amine 15721-78-5	Result	not sensitising
	Test type	Mouse local lymphnode assay (LLNA)
	Species	mouse
	Method	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)

Germ cell mutagenicity:

Carbon black - Nano 1333-86-4	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Carbon black - Nano 1333-86-4	Result	negative
	Type of study / Route of administration	mammalian cell gene mutation assay
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Carbon black - Nano 1333-86-4	Result	negative
	Type of study / Route of administration	sister chromatid exchange assay in mammalian cells
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 479 (Genetic Toxicology: In Vitro Sister Chromatid Exchange Assay in Mammalian Cells)
Carbon black - Nano 1333-86-4	Result	negative
	Type of study / Route of administration	in vitro mammalian cell micronucleus test
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 487 (In vitro Mammalian Cell Micronucleus Test)
Carbon black - Nano 1333-86-4	Result	negative
	Type of study / Route of administration	mammalian cell gene mutation assay
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 490 (In Vitro Mammalian Cell Gene Mutation Tests Using the Thymidine Kinase Gene)
Carbon black - Nano 1333-86-4	Result	negative
	Type of study / Route of administration	inhalation
	Metabolic activation / Exposure time	
	Species	rat
	Method	OECD Guideline 489 (In Vivo Mammalian Alkaline Comet Assay)
Bis(4-(1,1,3,3-tetramethylbutyl)phenyl)amine 15721-78-5	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Bis(4-(1,1,3,3-tetramethylbutyl)phenyl)amine 15721-78-5	Result	ambiguous with metabolic activation
	Type of study / Route of administration	mammalian cell gene mutation assay
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Bis(4-(1,1,3,3-tetramethylbutyl)phenyl)amine 15721-78-5	Result	negative
	Type of study / Route of administration	in vitro mammalian cell micronucleus test
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 487 (In vitro Mammalian Cell Micronucleus Test)

Repeated dose toxicity:

Carbon black - Nano 1333-86-4	Result	NOAEL=> 1,000 mg/kg
	Route of application	oral: gavage
	Exposure time / Frequency of treatment	90 ddaily
	Species	rat
	Method	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Carbon black - Nano 1333-86-4	Result	NOAEL=1 mg/m3
	Route of application	inhalation
	Exposure time / Frequency of treatment	13 w6 h/d, 5 d/w
	Species	rat
	Method	not specified
Bis(4-(1,1,3,3-tetramethylbutyl)phenyl)amine 15721-78-5	Result	NOAEL=1,000 mg/kg
	Route of application	oral: gavage
	Exposure time / Frequency of treatment	90 ddaily
	Species	rat
	Method	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

Section 12. Ecological information

General ecological information: Do not empty into drains / surface water / ground water.

Toxicity:

Carbon black - Nano 1333-86-4	Value type	LC50
	Value	Toxicity > Water solubility
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Danio rerio
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
Carbon black - Nano 1333-86-4	Value type	EC50
	Value	Toxicity > Water solubility
	Acute Toxicity Study	Daphnia
	Exposure time	24 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Carbon black - Nano 1333-86-4	Value type	EC50
	Value	Toxicity > Water solubility
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Desmodesmus subspicatus
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	EC10
	Value	Toxicity > Water solubility
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Desmodesmus subspicatus
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
Carbon black - Nano 1333-86-4	Value type	EC0
	Value	Toxicity > Water solubility
	Acute Toxicity Study	Bacteria
	Exposure time	3 h
	Species	activated sludge, domestic
	Method	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Bis(4-(1,1,3,3-tetramethylbutyl)phenyl)amine 15721-78-5	Value type	EC50
	Value	Toxicity > Water solubility
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Oncorhynchus mykiss
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
	Value type	NOEC
	Value	Toxicity > Water solubility
	Acute Toxicity Study	Fish
	Exposure time	33 d
	Species	Pimephales promelas
	Method	OECD Guideline 210 (fish early lite stage toxicity test)
Bis(4-(1,1,3,3-tetramethylbutyl)phenyl)amine 15721-78-5	Value type	EC50
	Value	Toxicity > Water solubility
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Bis(4-(1,1,3,3-tetramethylbutyl)phenyl)amine 15721-78-5	Value type	EC50
	Value	Toxicity > Water solubility
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	EC10
	Value	Toxicity > Water solubility

	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)

Persistence and degradability:

Bis(4-(1,1,3,3-tetramethylbutyl)phenyl)amine 15721-78-5	Result	not readily biodegradable.
	Route of application	aerobic
	Degradability	20 %
	Method	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)

Bioaccumulative potential / Mobility in soil:

Bis(4-(1,1,3,3-tetramethylbutyl)phenyl)amine 15721-78-5	LogPow	8.8
	Temperature	40 °C
	Method	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)

Section 13. Disposal considerations

Product

Method of disposal: Dispose of in accordance with local and national regulations.

Packaging

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

Section 14. Transport information

Road transport ADR:
Not dangerous goods

Railroad transport RID:
Not dangerous goods

Inland water transport ADN:
Not dangerous goods

Marine transport IMDG:
Not dangerous goods

Air transport IATA:
Not dangerous goods

Section 15. Regulatory information

Regulatory Information: This Safety Data Sheet has been generated based on

LAW ON CHEMICALS No. 06/2007/QH12, issued on November 21, 2007;

Decree No. 113/2017/ND-CP SPECIFYING AND PROVIDING GUIDELINES FOR IMPLEMENTATION OF CERTAIN ARTICLES OF THE LAW ON CHEMICALS, issued on November 25, 2017;

Circular No 32/2017/TT-BCT SPECIFYING AND PROVIDING GUIDELINES FOR IMPLEMENTATION OF CERTAIN ARTICLES OF THE LAW ON CHEMICALS AND THE GOVERNMENT'S DECREE NO. 113/2017/ND-CP DATED OCTOBER 09, 2017 SPECIFYING AND PROVIDING GUIDELINES FOR IMPLEMENTATION OF CERTAIN ARTICLES OF THE LAW ON CHEMICALS, issued on December 28, 2017;

Decree No. 82/2022/ND-CP AMENDMENTS TO SOME ACTICLES OF GOVERNMENT'S DECREE NO.113/2017/ND-CP DATED OCTOBER 09, 2017 SPECIFYING AND PROVIDING GUIDELINES FOR IMPLEMENTATION OF CERTAIN ARTICLES OF THE LAW ON CHEMICALS, issued on December 22, 2022;

Circular No. 17/2022/TT-BCT AMENDMENTS TO SOME ACTICLES OF CIRCULAR NO. 32/2017/TT-BCT DATED DECEMBER 28, 2017 OF THE MINISTER OF INDUSTRY AND TRADE ON ELABORATION AND PROVISION OF GUIDELINES FOR IMPLEMENTATION OF CERTAIN ARTICLES OF THE LAW ON CHEMICALS AND THE GOVERNMENT'S DECREE NO. 113/2017/ND-CP DATED OCTOBER 09, 2017 ON ELABORATION AND PROVISION OF GUIDELINES FOR IMPLEMENTATION OF CERTAIN ARTICLES OF THE LAW ON CHEMICALS, issued on December 22, 2022.

Global inventory status:

Regulatory list	Notification
TSCA	yes
DSL	yes
ISHL (JP)	yes
KECI (KR)	yes
NZIOC	yes

Section 16. Other information

Disclaimer:

This Safety Data Sheet has been generated based on LAW ON CHEMICALS No. 06/2007/QH12; Decree No. 113/2017/ND-CP; Circular No 32/2017/TT-BCT; Decree No. 82/2022/ND-CP and Circular No. 17/2022/TT-BCT.
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