

SAFETY DATA SHEET

HMT 8203

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : HMT 8203
:

Manufacturer or supplier's details

Company : Hot Melt Technologies, Inc.
Address : 1723 W Hamlin Road
Rochester Hills, MI 48309
Telephone : 248-853-2011

Recommended use of the chemical and restrictions on use

Recommended use : Hot melt adhesive
Restrictions on use : For industrial use only.

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance	Solid form
Color	black
Odor	odorless

GHS Classification

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Potential Health Effects

Inhalation : Vapors/fumes may be irritating at application temperatures.
Skin : Contact with hot product will cause thermal burns.
Aggravated Medical Condition : None known.

Carcinogenicity:

IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA No component of this product present at levels greater than or

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NTP

equal to 0.1% is on OSHA's list of regulated carcinogens.
No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous ingredients

Chemical name	CAS-No.	Concentration [%]
calcium carbonate	471-34-1	30 - 50
zinc oxide	1314-13-2	1 - 5

SECTION 4. FIRST AID MEASURES

General advice : Show this material safety data sheet to the doctor in attendance.

If inhaled : Move to fresh air.
If symptoms persist, call a physician.

In case of skin contact : Wash off with soap and water.
Cool melted product on skin with plenty of water. Do not remove solidified product.

In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

If swallowed : Do not induce vomiting. Seek medical attention if symptoms develop. Provide medical care provider with this SDS.

Notes to physician : Use mineral oil to soften and loosen product for removal.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media : Do NOT use water jet.

Specific hazards during fire fighting : Burning produces irritant fumes.

Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.

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SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Refer to protective measures listed in sections 7 and 8.
Methods and materials for containment and cleaning up : Allow to solidify.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Avoid breathing vapors/fumes of heated product. Prevent contact with molten product.
Conditions for safe storage : Keep in a dry, cool place.
Materials to avoid : No special restrictions on storage with other products.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
calcium carbonate	471-34-1	PEL (Total dust)	10 mg/m ³	CAL PEL
		PEL (respirable dust fraction)	5 mg/m ³	CAL PEL
zinc oxide	1314-13-2	TWA (Respirable fraction)	2 mg/m ³	ACGIH
		STEL (Respirable fraction)	10 mg/m ³	ACGIH
		TWA (Fumes)	5 mg/m ³	OSHA Z-1
		TWA (total dust)	15 mg/m ³	OSHA Z-1
		TWA (respirable fraction)	5 mg/m ³	OSHA Z-1
		TWA (Total)	10 mg/m ³	OSHA P0
		TWA (Respirable fraction)	5 mg/m ³	OSHA P0
		TWA	5 mg/m ³	OSHA P0
		STEL	10 mg/m ³	OSHA P0
		TWA (Total dust)	10 mg/m ³	OSHA P0

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		TWA (respirable dust fraction)	5 mg/m ³	OSHA P0
		TWA (Fumes)	5 mg/m ³	OSHA P0
		STEL (Fumes)	10 mg/m ³	OSHA P0

Engineering measures : At the application temperature, use of local exhaust over the premelting reservoir is encouraged.

Personal protective equipment

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.

Filter type : Particulates type

Hand protection

Material : Protective gloves

Remarks : When handling hot material, use heat resistant gloves.

Eye protection : Safety glasses

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Solid form
Color : black
Odor : odorless
Odor Threshold : No data available
Boiling point/boiling range : not determined
Flash point : > 590 °F
Evaporation rate : not determined
Flammability (solid, gas) : Not classified as a flammability hazard

Upper explosion limit : Upper flammability limit
not determined
Lower explosion limit : Lower flammability limit
not determined
Relative vapor density : not determined
Density : 1.17 - 1.20 g/cm³
Solubility(ies)
Water solubility : insoluble
Partition coefficient: n-
octanol/water : No data available
Autoignition temperature : not determined
Thermal decomposition : 200 °C

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Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). To avoid thermal decomposition, do not overheat.

Viscosity
Viscosity, kinematic : Not applicable
Solid Content, % by weight: : 100
VOC, % by weight : 0

SECTION 10. STABILITY AND REACTIVITY

Chemical stability : The product is chemically stable.
Possibility of hazardous reactions : Hazardous polymerization does not occur.
Hazardous decomposition products : Stable under normal conditions.
Thermal decomposition can lead to release of irritating gases and vapors.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

STOT-single exposure

No data available

STOT-repeated exposure

No data available

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Aspiration toxicity

No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : To the best of our knowledge, this product does not meet the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. Solidify and dispose of in an approved landfill. Consult state, local or provincial authorities for more restrictive requirements.
The hazard and precautionary statements displayed on the label also apply to any residues left in the container.

SECTION 14. TRANSPORT INFORMATION

Special precautions for user

Remarks : Not dangerous goods

Domestic regulation

49 CFR

Not regulated as a dangerous good

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

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IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

SECTION 15. REGULATORY INFORMATION

SARA 311/312 Hazards : No SARA Hazards

SARA 302 : This material does not contain any components with a section 302 EHS TPQ.

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

zinc oxide	1314-13-2
zinc distearate	557-05-1

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

US State Regulations

California Prop 65 Please contact Supplier for more information.

The ingredients of this product are reported in the following inventories:

TSCA On TSCA Inventory

DSL All components of this product are on the Canadian DSL
Not in compliance with the inventory
Not in compliance with the inventory
Not in compliance with the inventory
Not in compliance with the inventory
Not in compliance with the inventory
Not in compliance with the inventory
Not in compliance with the inventory
Not in compliance with the inventory

Inventories Legend TSCA (USA), DSL (Canada), REACH(Europe), AICS (Australia), NZIoC (New Zealand), ENCS (Japan), KECI (Korea), PICCS (Philippines), IECSC (China), TWINV (Taiwan)

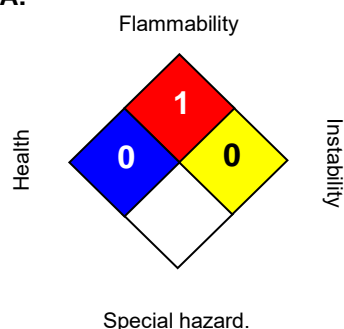
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SECTION 16. OTHER INFORMATION

Further information

NFPA:



HMIS III:

HEALTH	0
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

DISCLAIMER - The warranty, as stated above, supersedes all other warranties, express or implied. Hot Melt Technologies expressly disclaims any other warranties, including warranties of merchantability and fitness for a particular purpose. Hot Melt Technologies' acceptance of purchaser's order for this product is expressly conditional on purchaser's assent to terms and conditions set forth herein. Regardless of whether Hot Melt Technologies suggested the product or developed the product at the purchaser's request, it is the purchaser's responsibility to test and determine the suitability of the product for the purchaser's intended use and purpose, and purchaser assumes all risk and liability whatsoever.

We believe the information included on this Material Safety Data Sheet to be correct, to the best of our knowledge. The recommendations and suggestions herein are made without guarantee or representation as to results. We recommend that tests be made in a laboratory or plant to determine if this product meets all of your requirements. It is the responsibility of the buyer/user to determine the suitability of this product for his/her application/requirements.