SAFETY DATA SHEET

This safety data sheet complies with the requirements of: REACH Regulation (EC) No 1907/2006, as retained in UK law by (SI 2019/758 as amended)

THERMELT 207N NATURAL
Supercedes Date: 07-Mar-2023

Revision date 25-Aug-2023
Revision Number 2.01

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

1.1. Product identifier

Product Name THERMELT 207N NATURAL

Pure substance/mixture Mixture

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

Recommended use Hot-melt adhesives

Uses advised against None known

1.3. Details of the supplier of the safety data sheet

Company Name
Bostik Limited
Common Rd
ST16 3EH
Stafford UK
Tel: +44 (1785) 27 26 25
Fax: +44 (1785) 25 72 36

E-mail address SDS.box-EU@bostik.com

1.4. Emergency telephone number

United Kingdom Bostik: +44 (1785) 272650 (9am to 5pm Mon-Fri)
NHS: 111

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP (SI 2020/1567 as amended)

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

Signal word
None

Hazard statements
This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

EU Specific Hazard Statements
EUH210 - Safety data sheet available on request

2.3. Other hazards

Contact with product at elevated temperatures can result in thermal burns.

PBT & vPvB
This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	EC No (EU Index No)	CAS No.	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	REACH registration number
Vinyl acetate	(607-023-00-0) 203-545-4	108-05-4	0.1 - <0.3	Flam Liq. 2 (H225) Acute Tox. 4 (H332) Carc. 2 (H351) STOT SE 3 (H335) STOT SE 3 (H336) STOT RE 2 (H373) Aquatic Chronic 3 (H412)	-	01-2119471301-50-XXXX

Full text of H- and EUH-phrases: see section 16

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Notes
See section 16 for more information

Chemical name	Notes
Vinyl acetate - 108-05-4	D

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice If medical advice is needed, have product container or label at hand. Show this safety data sheet to the doctor in attendance.

Inhalation **Molten** . Move to fresh air in case of accidental inhalation of vapours or decomposition products. **Solid:** . Not an expected route of exposure.

Eye contact	**Solid:** . In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. **Molten** . Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Contact with molten materials requires immediate medical assistance.
Skin contact	**Solid:** . Wash skin with soap and water. **Molten** . After contact with molten product, cool skin area rapidly with cold water. For severe burns, immediate medical attention is required. Do not remove clothing if adhering to skin. Removal of solidified molten material from skin requires medical assistance. Do not try to remove solidified material from the skin.
Ingestion	Get immediate medical attention. Do not induce vomiting without medical advice.

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

Symptoms	Contact with molten substance may cause severe burns to skin and eyes.

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

Note to doctors	Burns caused by molten material must be treated clinically. Treat any burns as thermal burns, after decontamination.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media	CO_2, dry chemical, dry sand, alcohol-resistant foam.
Unsuitable extinguishing media	Do not use straight streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	The product is insoluble and floats on water. The melted product can cause severe burns.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation. Avoid contact with hot, molten product.
Other information	Where possible allow molten material to solidify naturally.
For emergency responders	Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions	Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for containment and cleaning up

Methods for containment	**Molten** . Cover with dry sand/earth.
Methods for cleaning up	**Solid:** . Take up mechanically, placing in appropriate containers for disposal. **Molten** . Where possible allow molten material to solidify naturally. Use appropriate personal protective equipment (PPE). Carefully shovel or sweep up spilled material and place in

suitable container. Avoid generating dust. Clean contaminated surface thoroughly.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Avoid contact with skin and eyes. Wash thoroughly after handling. Take precautionary measures against static discharges. Use adequate ventilation and/or engineering controls in high temperature processing to prevent exposure to vapours. Facilities for quickly drenching the body should be provided within the immediate work area for emergency use where there is a possibility of exposure.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Store in a cool, dry area away from potential sources of heat, open flames, sunlight or other chemicals.

Recommended storage temperature Keep at temperatures between 10 and 35 °C.

7.3. Specific end use(s)

Specific use(s)
Hot-melt adhesives.

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

Other information Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical name	European Union	United Kingdom
Vinyl acetate 108-05-4	TWA: 5 ppm TWA: 17.6 mg/m³ STEL: 10 ppm STEL: 35.2 mg/m³	TWA: 5 ppm TWA: 17.6 mg/m³ STEL: 10 ppm STEL: 35.2 mg/m³

Derived No Effect Level (DNEL) No information available

Derived No Effect Level (DNEL)			
Vinyl acetate (108-05-4)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Systemic health effects	Inhalation	17.6 mg/m³	
worker Short term Systemic health effects	Inhalation	35.2 mg/m³	

worker Long term Local health effects	Inhalation	17.6 mg/m³	
worker Short term Local health effects	Inhalation	35.2 mg/m³	
worker Long term Systemic health effects	Dermal	0.42 mg/kg bw/d	

Predicted No Effect Concentration (PNEC)

Predicted No Effect Concentration (PNEC)	
Vinyl acetate (108-05-4)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.016 mg/l
Marine water	0.002 mg/l
Microorganisms in sewage treatment	6 mg/l
Freshwater sediment	0.067 mg/kg dry weight
Marine sediment	0.007 mg/kg dry weight
Soil	0.004 mg/kg dry weight

8.2. Exposure controls

Engineering controls **Molten** . Ensure adequate ventilation, especially in confined areas. Vapours/aerosols must be exhausted directly at the point of origin.

Personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). Eyewash fountains should be provided in areas where there is any possibility that workers could be exposed to the substances; this is irrespective of the recommendation involving the wearing of eye protection.

Hand protection **Molten** . Heat resistant gloves are recommended when handling molten materials. **Solid:** . For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn. Gloves must conform to standard EN 374

Skin and body protection Wear appropriate personal protective clothing to prevent skin contact.

Environmental exposure controls No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Solid
Appearance	Granules
Colour	Amber
Odour	Odourless.
Odour threshold	Not applicable

Property	**Values**	**Remarks • Method**
Melting point / freezing point	No data available	See section 9.2 for more information
Initial boiling point and boiling range	No data available	Not applicable
Flammability	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	

Flash point	> 250 °C	CC (closed cup)
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
pH	No data available	Not applicable. Insoluble in water.
pH (as aqueous solution)	No data available	Not applicable
Kinematic viscosity	No data available	Not applicable
Dynamic viscosity	4.0 - 6.5 Pa.s	Spindle A27 @ 50 rpm @ 190 °C
Water solubility	Not applicable. Insoluble in water.	None known
Solubility(ies)	Ethyl acetate Methyl ethyl ketone	None known
Partition coefficient	No data available	None known
Vapour pressure	No data available	Not applicable
Relative density	No data available	Not applicable
Bulk Density	No data available	
Density	1 g/cm³	
Relative vapour density	No data available	Not applicable
Particle characteristics		Not applicable
Particle Size	No information available	
Particle Size Distribution	No information available	

9.2. Other information

Solid content (%)	100
Softening Point	125 - 139 °C
VOC content	No data available

9.2.1. Information with regards to physical hazard classes
Not applicable

9.2.2. Other safety characteristics
No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact	None.
Sensitivity to static discharge	Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Extremes of temperature and direct sunlight. To avoid thermal decomposition, do not overheat. Do not add water or other volatile material to molten adhesive. Under dusty conditions avoid all sources of ignition, including sparks and static electricity.

10.5. Incompatible materials

Incompatible materials Strong oxidising agents, strong acids, and strong bases.

10.6. Hazardous decomposition products

Hazardous decomposition products Carbon monoxide. Carbon dioxide (CO2). Hydrocarbons.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure

Product Information

Inhalation Based on available data, the classification criteria are not met.

Eye contact Based on available data, the classification criteria are not met.

Skin contact Based on available data, the classification criteria are not met.

Ingestion Based on available data, the classification criteria are not met.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Acute toxicity

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	>5000 mg/kg
ATEmix (dermal)	>5000 mg/kg
ATEmix (inhalation-gas)	>20000 ppm
ATEmix (inhalation-dust/mist)	>5 mg/l
ATEmix (inhalation-vapour)	>20 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Vinyl acetate	=2900 mg/kg (Rattus)	= 2335 mg/kg (Oryctolagus cuniculus)	=11.4 mg/L (Rattus) 4 h = 3680 ppm (Rattus) 4 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Vinyl acetate (108-05-4)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 404: Acute Dermal Irritation/Corrosion	Rabbit	Dermal			Non-irritant

Serious eye damage/eye irritation Based on available data, the classification criteria are not met.

Vinyl acetate (108-05-4)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405:	Rabbit	eye			Non-irritant

Acute Eye Irritation/Corrosion					

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

Vinyl acetate (108-05-4)

Method	Species	Exposure route	Results
OECD Test No. 429: Skin Sensitisation: Local Lymph Node Assay	Mouse		No sensitisation responses were observed

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Component Information
Vinyl acetate (108-05-4)

Method	Species	Results
OECD Test No. 473: In vitro Mammalian Chromosome Aberration Test	Human lymphocytes, in vitro	Mutagenic
OECD Test No. 471: Bacterial Reverse Mutation Test		Not mutagenic in AMES Test

Carcinogenicity Based on available data, the classification criteria are not met.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component Information
Vinyl acetate (108-05-4)

Method	Species	Results
OECD Test No. 453: Combined Chronic Toxicity/Carcinogenicity Studies	Rat	Carcinogenic

Chemical name	European Union
Vinyl acetate	Carc. 2

Reproductive toxicity Based on available data, the classification criteria are not met.

Vinyl acetate (108-05-4)

Method	Species	Results
OECD Test No. 416: Two-Generation Reproduction Toxicity	Rat	NOAEL 100 mg/kg bw/d

STOT - single exposure Based on available data, the classification criteria are not met.

STOT - repeated exposure Based on available data, the classification criteria are not met.

Vinyl acetate (108-05-4)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 408: Repeated Dose 90-Day Oral Toxicity Study in Rodents	Mouse, female	Oral		91 days	NOAEL: 281 mg/kg
OECD Test No. 408:	Mouse, male	Oral		91 days	NOAEL 285 mg/kg

Repeated Dose 90-Day Oral Toxicity Study in Rodents					
OECD Test No. 408: Repeated Dose 90-Day Oral Toxicity Study in Rodents	Rat, male	Oral		91 days	NOAEL 684 mg/kg
OECD Test No. 408: Repeated Dose 90-Day Oral Toxicity Study in Rodents	Rat, female	Oral		91 days	NOAEL 810 mg/kg

Aspiration hazard Based on available data, the classification criteria are not met.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties No information available.

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea	M-Factor	M-Factor (long-term)
Vinyl acetate 108-05-4	-	LC50 96 h = 14 mg/L (Pimephales promelas static)	EC50 = 2080 mg/L 5 min	EC50 48 h = 12.6 mg/L (Daphnia magna)		

12.2. Persistence and degradability

Persistence and degradability No information available.

Vinyl acetate (108-05-4)

Method	Exposure time	Value	Results
OECD Test No. 301C: Ready Biodegradability: Modified MITI Test (I) (TG 301 C)	14 days	82-92% biodegradation	Readily biodegradable

12.3. Bioaccumulative potential

Bioaccumulation

Component Information

Chemical name	Partition coefficient
Vinyl acetate	0.73

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product does not contain any substance(s) classified as PBT or vPvB above the threshold of declaration.

Chemical name	PBT and vPvB assessment
Vinyl acetate	The substance is not PBT / vPvB PBT assessment does not apply

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

12.7. Other adverse effects
No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

European Waste Catalogue 08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09

Other information Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: Transport information

Land transport (ADR/RID)
14.1 UN number or ID number Not regulated
14.2 UN proper shipping name Not regulated
14.3 Transport hazard class(es) Not regulated
14.4 Packing group Not regulated
14.5 Environmental hazards Not applicable
14.6 Special precautions for user
Special Provisions None

IMDG
14.1 UN number or ID number Not regulated
14.2 UN proper shipping name Not regulated
14.3 Transport hazard class(es) Not regulated
14.4 Packing group Not regulated
14.5 Marine pollutant NP
14.6 Special precautions for user
Special Provisions None
14.7 Maritime transport in bulk according to IMO instruments
Transport in bulk according to Annex II of MARPOL and the IBC Code Not applicable

Air transport (ICAO-TI / IATA-DGR)
14.1 UN number or ID number Not regulated
14.2 UN proper shipping name Not regulated
14.3 Transport hazard class(es) Not regulated
14.4 Packing group Not regulated
14.5 Environmental hazards Not applicable

14.6 Special precautions for user
Special Provisions None

Section 15: REGULATORY INFORMATION

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

European Union

Registration, Evaluation, Authorization, and Restriction of Chemicals (REACh) Regulation (EC 1907/2006)

SVHC: Substances of Very High Concern for Authorisation:
This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction
This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

Substance subject to authorisation per REACH Annex XIV
This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

Ozone-depleting substances (ODS) regulation (EC) 1005/2009
Not applicable

Persistent Organic Pollutants
Not applicable

National regulations

15.2. Chemical safety assessment

Chemical Safety Assessments have been carried out by the Reach registrants for substances registered at >10 tpa. No Chemical Safety Assessment has been carried out for this mixture

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3
H225 - Highly flammable liquid and vapour
H332 - Harmful if inhaled
H335 - May cause respiratory irritation
H336 - May cause drowsiness or dizziness
H351 - Suspected of causing cancer
H373 - May cause damage to organs through prolonged or repeated exposure
H412 - Harmful to aquatic life with long lasting effects
Notes relating to the identification, classification and labelling of substances
Note D: Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3.
However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier must state on the label the name of the substance followed by the words ‘non-stabilised’

Legend

TWA	TWA (time-weighted average)
STEL	STEL (Short Term Exposure Limit)
Ceiling	Ceiling Limit Value
*	Skin designation
SVHC	Substance(s) of Very High Concern
PBT	Persistent, Bioaccumulative, and Toxic (PBT) Chemicals
vPvB	Very Persistent and very Bioaccumulative (vPvB) Chemicals
STOT RE	Specific target organ toxicity - Repeated exposure
STOT SE	Specific target organ toxicity - Single exposure
EWC	European Waste Catalogue
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG	International Maritime Dangerous Goods (IMDG)
IATA	International Air Transport Association (IATA)
RID	Regulations concerning the International Transport of Dangerous Goods by Rail

Key literature references and sources for data
No information available

Prepared By	Product Safety & Regulatory Affairs
Revision date	25-Aug-2023

Indication of changes

Revision note	SDS sections updated, 3, 9, 11.
Training Advice	No information available
Further information	No information available

This material safety data sheet complies with requirements of UK REACH Regulations (SI 2019/758 as amended)

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet