



# SAFETY DATA SHEET

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

**THERMELT 4229 NATURAL W/O**  
Supersedes date 01-Aug-2023

Revision date 18-Dec-2024  
Revision Number 1.03

**This Safety Data Sheet is prepared voluntarily: it is not required according to Article 31 of Regulation (EC) No 1907/2006**

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

### 1.1. Product identifier

**Product Name** THERMELT 4229 NATURAL W/O

**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]

### 2.3. Other hazards

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Contact with product at elevated temperatures can result in thermal burns. Pellets: Extremely slippery when spilled.

## PBT & vPvB

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

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable

### 3.2 Mixtures

The product contains no substances which at their given concentration, are considered to be hazardous to health

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

### Acute Toxicity Estimate

No information available

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>General advice</b>	If medical advice is needed, have product container or label at hand. Show this safety data sheet to the doctor in attendance.
<b>Inhalation</b>	<b>Molten</b> . Move to fresh air in case of accidental inhalation of vapours or decomposition products. <b>Solid</b> : . Not an expected route of exposure.
<b>Eye contact</b>	<b>Molten</b> . In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes. Contact with molten materials requires immediate medical assistance. <b>Solid</b> : . Pellets Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a doctor. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>Skin contact</b>	<b>Molten</b> . 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. Do not try to remove solidified material from the skin. Removal of solidified molten material from skin requires medical assistance. <b>Solid</b> : . Wash skin with soap and water.
<b>Ingestion</b>	Get immediate medical attention. Do not induce vomiting without medical advice.

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

<b>Symptoms</b>	Contact with molten substance may cause severe burns to skin and eyes.
<b>Effects of Exposure</b>	No information available.

### 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

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burns, after decontamination.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable Extinguishing Media** CO2, dry chemical, dry sand, alcohol-resistant foam. Water spray.

**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 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** Avoid contact with hot, molten product. Ensure adequate ventilation. Pellets: Slippery, can cause falls if walked on.

**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** Where possible allow molten material to solidify naturally. Prevent product from entering drains. Dyke to collect large liquid spills.

**Methods for cleaning up** **Molten** . Where possible allow molten material to solidify naturally. Take up mechanically, placing in appropriate containers for disposal. **Solid**: . Sweep up and shovel into suitable containers for disposal.

**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.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Advice on safe handling** Avoid contact with skin and eyes. If hot processing this material, ensure adequate ventilation and wear personal protective equipment. 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. Take precautionary measures against static discharges.

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**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. Protect from moisture.

**Recommended storage temperature** Keep at temperatures between 5 and 50 °C (41 and 122 °F).

## 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** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

**Derived No Effect Level (DNEL)** No information available

**Predicted No Effect Concentration (PNEC)**

### 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

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<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
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	approx 260 °C	CC (closed cup)
Autoignition temperature	approx 460 °C	None known
Decomposition temperature	approx 310°C	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	2.5 - 5.5 Pa.s	Spindle A27 @ 50 rpm @ 200 °C
Water solubility	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/cm <sup>3</sup>	
Relative vapour density	No data available	Not applicable
Particle characteristics		Not applicable
Particle Size	No information available	
Particle Size Distribution	No information available	
<b>9.2. Other information</b>		
Solid content (%)	= 100	
Softening point	135 - 153 °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.

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## 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. Protect from moisture.

## 10.5. Incompatible materials

**Incompatible materials** None known based on information supplied.

## 10.6. Hazardous decomposition products

**Hazardous decomposition products** Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). 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

<b>Inhalation</b>	Based on available data, the classification criteria are not met.
<b>Eye contact</b>	Based on available data, the classification criteria are not met.
<b>Skin contact</b>	Based on available data, the classification criteria are not met.
<b>Ingestion</b>	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

<b>ATEmix (oral)</b>	>2000 mg/kg
<b>ATEmix (dermal)</b>	>2000 mg/kg
<b>ATEmix (inhalation-gas)</b>	>20000 ppm
<b>ATEmix (inhalation-dust/mist)</b>	>5 mg/l
<b>ATEmix (inhalation-vapour)</b>	>20 mg/l

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

**Skin corrosion/irritation** Contact with molten substance may cause severe burns to skin and eyes.

**Serious eye damage/eye irritation** Contact with molten substance may cause severe burns to skin and eyes.

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

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

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

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

**STOT - single exposure** Thermal decomposition can lead to release of irritating gases and vapours.

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

**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**

### 12.2. Persistence and degradability

**Persistence and degradability** No information available.

### 12.3. Bioaccumulative potential

**Bioaccumulation** There is no data for this product.

### 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.

### 12.6. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

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## 12.7. Other adverse effects

No information available.

## **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

<b>Waste from residues/unused products</b>	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
<b>Contaminated packaging</b>	Do not reuse empty containers.
<b>European Waste Catalogue</b>	08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09
<b>Other information</b>	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, Authorisation, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)



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## SVHC: Substances of Very High Concern for Authorisation:

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (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)

## Export Notification requirements

This product does not contain substances which are regulated pursuant to Regulation (EC) No. 649/2012 of the European parliament and of the council concerning the export and import of dangerous chemicals above the level that triggers a labeling obligation under Regulation (EC) No 1272/2008. Therefore this product is not subject to prior informed consent notification.

## Ozone-depleting substances (ODS) Regulation (EU) 2024/590

Not applicable

## Persistent Organic Pollutants

Not applicable

## REGULATION (EU) 2019/1148 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 20 June 2019 on the marketing and use of explosives precursors

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

#### Legend

TWA	TWA (time-weighted average)
STEL	STEL (Short Term Exposure Limit)
Ceiling	Ceiling Limit Value
Sk*	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

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## **Key literature references and sources for data**

No information available

**Prepared By** Product Safety & Regulatory Affairs  
**Revision date** 18-Dec-2024

## **Indication of changes**

**Revision Note** SDS sections updated, 7, 9.  
**Training Advice** No information available  
**Further information** No information available

**This SDS complies with the 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**