Revision Number: 001.0

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name: HYSOL 7809FR PS 25LB PA
Product type: Hotmelt adhesive

IDH number: 420483
Item number: 83676
Region: United States

Company address:
Henkel Corporation
1001 Trout Brook Crossing
Rocky Hill, Connecticut 06067

Contact information:
Telephone: 860.571.5100
Emergency telephone: 860.571.5100
Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HMIS:

Physical state: Solid
Color: Colorless to light yellow
Odor: Odorless

HEALTH: 1
FLAMMABILITY: 0
PHYSICAL HAZARD: 0
Personal Protection: See MSDS Section 8

CAUTION: STATIC CHARGES GENERATED BY EMPTYING PACKAGE IN OR NEAR FLAMMABLE VAPORS MAY CAUSE IGNITION.
MOLTEN ADHESIVE MAY CAUSE SEVERE BURNS.
VAPORS ABOVE MOLTEN ADHESIVE MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

Relevant routes of exposure: Skin, Inhalation, Eyes, Ingestion

Potential Health Effects

Inhalation: Continuous breathing of vapors above molten adhesive may irritate mucous membranes. Dusts from solid adhesive may cause irritation.
Skin contact: Molten adhesive may cause severe burns. Repeated contact may cause skin irritation
Eye contact: Fumes released during thermal processing may cause eye irritation. Molten adhesive in eyes will cause severe and permanant damage.
Ingestion: No significant adverse effects are expected upon ingestion of the product.

Existing conditions aggravated by exposure: Not available

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	%
Fatty acids, tall-oil, dimers, polymers with azelaic acid, ethylenediamine, piperazine and polypropylene glycol diamine	68911-38-6	60 - 100
Aluminium hydroxide	21645-51-2	10 - 30

Hazardous components	CAS NUMBER	%
Fatty acids, tall-oil, dimers, polymers with azelaic acid, ethylenediamine, piperazine and polypropylene glycol diamine	68911-38-6	60 - 100

4. FIRST AID MEASURES

Inhalation:	Move to fresh air. If symptoms persist, seek medical advice.
Skin contact:	Cool skin rapidly with cold water after contact with molten material. Cover affected areas with clean sheeting or gauze and seek immediate medical attention.
Eye contact:	If eye contact occurs with molten material immediately cool with water. Do not remove adhesive. Seek medical attention.
Ingestion:	Do not induce vomiting. Seek medical advice.

5. FIRE FIGHTING MEASURES

Flash point:	> 280.00 °C (> 536°F) ; Estimated
Autoignition temperature:	Not available
Flammable/Explosive limits - lower:	Not available
Flammable/Explosive limits - upper:	Not available
Extinguishing media:	water, carbon dioxide, foam, powder
Special firefighting procedures:	Not available
Unusual fire or explosion hazards:	Not available
Hazardous combustion products:	Oxides of carbon, oxides of nitrogen, irritating organic vapors.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions:	Do not allow material to contaminate ground water system.
Clean-up methods:	Sweep up spilled material. Avoid creating dust. Keep in suitable and closed containers for disposal.

7. HANDLING AND STORAGE

Handling:	Do not place wet or damp solid into melt tank. Follow suggested application temperature. Always be careful around molten material. Avoid skin contact with molten resins. Do not wear contact lenses. Avoid dust formation.
Storage:	Keep cool in accordance with information on label and in Technical Data Sheets.

For information on product shelf life contact Henkel Customer Service at (800) 243-4874.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Fatty acids, tall-oil, dimers, polymers with azelaic acid, ethylenediamine, piperazine and polypropylene glycol diamine	None	None	None	None
Aluminium hydroxide	10 mg/m3 TWA (as Al) Total dust.	15 mg/m3 TWA (as Al) Total dust. 5 mg/m3 TWA (as Al) Respirable fraction.	None	None
Hazardous components	**ACGIH TLV**	**OSHA PEL**	**AIHA WEEL**	**OTHER**
Fatty acids, tall-oil, dimers, polymers with azelaic acid, ethylenediamine, piperazine and polypropylene glycol diamine	None	None	None	None

Engineering controls: Use adequate ventilation to remove molten vapors or fumes.

Respiratory protection: Solid Resin: Dust safety masks are recommended when the potential for dust inhalation exists. Molten Resin: Use a NIOSH approved air-purifying respirator with an organic vapor cartridge.

Eye/face protection: Safety goggles or safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists. Do not wear contact lenses.

Skin protection: Insulated gloves and long sleeved clothing are strongly recommended when working with molten adhesive.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid
Color: Colorless to light yellow
Odor: Odorless
Odor threshold: Not available
pH: Not available
Vapor pressure: Not determined
Boiling point/range: > 280.0 °C (> 536°F)
Melting point/ range: Not available
Specific gravity: 0.98
Vapor density: Not available
Flash point: > 280.00 °C (> 536°F) ; Estimated
Flammable/Explosive limits - lower: Not available
Flammable/Explosive limits - upper: Not available
Autoignition temperature: Not available
Evaporation rate: Not available
Solubility in water: Insoluble
Partition coefficient (n-octanol/water): Not available
VOC content: 0.00 %

10. STABILITY AND REACTIVITY

Stability: Stable

Hazardous reactions: Will not occur.

Hazardous decomposition products: Carbon dioxide, carbon monoxide and irritating and/or toxic gases and particulate may be generated by thermal decomposition or combustion.

Incompatible materials: Acids. Bases. Oxidizing agents.

Conditions to avoid: Excessive heat.

11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Fatty acids, tall-oil, dimers, polymers with azelaic acid, ethylenediamine, piperazine and polypropylene glycol diamine	No	No	No
Aluminium hydroxide	No	No	No

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Fatty acids, tall-oil, dimers, polymers with azelaic acid, ethylenediamine, piperazine and polypropylene glycol diamine	No	No	No

Hazardous components	Health Effects/Target Organs
Fatty acids, tall-oil, dimers, polymers with azelaic acid, ethylenediamine, piperazine and polypropylene glycol diamine	No Records
Aluminium hydroxide	Irritant, Lung, Respiratory

Hazardous components	Health Effects/Target Organs
Fatty acids, tall-oil, dimers, polymers with azelaic acid, ethylenediamine, piperazine and polypropylene glycol diamine	No Records

12. ECOLOGICAL INFORMATION

Ecological information: No specific studies have been conducted by Henkel on the ecotoxicity or environmental fate of this material; however, commonly available data on the material indicate that uncontrolled releases to soil, ground water, or surface waters could entail acute and/or chronic ecological effects, depending on the quantity and concentration of such releases. Releases of volatile components to the atmosphere are not believed to entail significant ecological consequences provided such releases are within the exposure levels set forth in this document. Accordingly, all appropriate measures should be taken to avoid uncontrolled releases to the environment, and any spills or other uncontrolled releases which may occur should be contained and cleaned up immediately in accordance with Section 6.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Dispose of according to Federal, State and local governmental regulations.

Hazardous waste number: Not a RCRA hazardous waste.

14. TRANSPORT INFORMATION

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

International Air Transportation (ICAO/IATA)

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

Water Transportation (IMO/IMDG)

Proper shipping name:	Not regulated
Hazard class or division:	None
Identification number:	None
Packing group:	None

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status:	All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.
TSCA 12(b) Export Notification:	None above reporting de minimus
CERCLA/SARA Section 302 EHS:	None above reporting de minimus
CERCLA/SARA Section 311/312:	Immediate Health
CERCLA/SARA 313:	None above reporting de minimus
California Proposition 65:	No California Proposition 65 listed chemicals are known to be present.

Canada Regulatory Information

CEPA DSL/NDSL Status:	All components are listed on or are exempt from listing on the Canadian Domestic Substances List.
WHMIS hazard class:	D.2.B

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: New Material Safety Data Sheet format.

Prepared by: Lou Fabrizio, Regulatory Affairs Specialist

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