



Parker Hannifin Corporation
Sporlan Division
206 Lange Drive
Washington, MO, U.S.A., 63090
Telephone: +001 (636) 239 1111

Thermal Mastic

PM8 (P/N 475321); PM21 (P/N 475313); PM25 (P/N 475315); PM50 (P/N 475319)

SDS Revision Date (dd/mm/yyyy): 15/10/2024

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Revision No.: 2

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product identifier : Thermal Mastic

Product Code(s) : PM8 (P/N 475321); PM21 (P/N 475313); PM25 (P/N 475315); PM50 (P/N 475319)

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

: Heat conducting compound.

Restricted to professional users.

1.3 Details of the supplier of the safety data sheet:

Parker Hannifin Corporation - Sporlan Division

206 Lange Drive
Washington, MO, U.S.A.
63090

Telephone : (636) 239 1111

1.4 Emergency Telephone Number

: Chemtrec 1-800-424-9300 (Within Continental U.S.); Chemtrec 703-527-3887 (Outside U.S.).

Poisons Information Centre

The United Kingdom NHS 111

France +33383852192

Germany +493018412-0

Spain +34917689800

Poland +48422538400

Italy

06 68593726 (CAV "Osp. Pediatrico Bambino Gesù" Dip. Emergenza - Roma) 800

183459 (Az. Osp. Univ. Foggia - Foggia)

081 5453333 (Az. Osp. "A. Cardarelli" - Napoli)

06 49978000 (CAV Policlinico "Umberto I" - Roma)

06 3054343 (CAV Policlinico "A. Gemelli" - Roma)

055 7947819 (Az. Osp. "Careggi" U.O. Tossicologia Medica - Firenze)

0382 24444 (CAV Centro Nazionale di Informazione Tossicologica - Pavia) 02

66101029 (Osp. Niguarda Ca' Granda - Milano)

800 883300 (Azienda Ospedaliera Papa Giovanni XXII - Bergamo)

1.5 National Contact

: +001 (636) 239-1111

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

tan paste, No odour.

Most important hazards: Occupational exposure to the substance or mixture may cause adverse effects. For further information, please refer to section 11 of the SDS.

The product is not classified as hazardous according to Regulation (EC) No. 1272/2008.

2.2 Label elements

Hazard pictogram(s)



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None required according to Regulation (EC) No. 1272/2008.

Hazardous components which must be listed on the label:
None.

Signal word:
None required according to Regulation (EC) No. 1272/2008.

Hazard statements:
None required according to Regulation (EC) No. 1272/2008.

Supplemental Hazard Statements
None.

Precautionary statements:
None required according to Regulation (EC) No. 1272/2008.

2.3 Other hazards

Other hazards which do not result in classification:
Burning produces obnoxious and toxic fumes. May form combustible dust concentrations in air (during processing). May be mildly irritating to eyes and skin. Fumes from heated product may irritate respiratory tract. If dusts are formed, inhalation may cause adverse lung effects.
Environmental precautions: Avoid release to the environment. See ECOLOGICAL INFORMATION, Section 12.

Endocrine disrupting properties: Not applicable.

PBT assessment:
This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable

3.2 Mixtures

Chemical nature of the preparation: Mixture

| Substance name | <u>CAS No</u> | <u>EC No.</u> | <u>Reach Registration No.</u> | <u>% Weight</u> | <u>Classification according to Regulation (EC) nr. 1272/2008</u> | <u>SCL, M-factor, ATE</u> |
|-------------------|---------------|---------------|---------------------------------------|-----------------|--|-----------------------------------|
| Calcium carbonate | 1317-65-3 | 215-279-6 | Present | 60.0 - 80.0 | Not classified | Not applicable. |
| Talc | 14807-96-6 | 238-877-9 | Not available | 5.0 - 10.0 | STOT RE 2; H373 | Not applicable. |

For the full text of the H phrases not mentioned in this Section or in Section 2, see Section 16.

SECTION 4. FIRST-AID MEASURES

4.1 Description of first aid measures



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- Ingestion* : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms persist.
- Inhalation* : Move to fresh air. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing has stopped, give artificial respiration. If irritation or symptoms develop, seek medical attention.
- Skin contact* : For skin contact, wash with soap and water while removing contaminated clothing. If irritation persists, seek prompt medical attention. Wash contaminated clothing before reuse.
- Eye contact* : Immediately flush eyes with running water for at least 5 to 10 minutes. If irritation persists, seek prompt medical attention.

4.1.2 Self-protection for the first aider

- : Not applicable.

4.2 Most important symptoms and effects, both acute and delayed

- : May be mildly irritating to eyes and skin. Fumes from heated product may irritate respiratory tract. If dusts are formed, inhalation may cause adverse lung effects.

4.3 Indication of any immediate medical attention and special treatment needed

- : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

- : Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.

Unsuitable extinguishing media

- : Do not use water jet, as this may spread burning material.

5.2 Special hazards arising from the substance or mixture

- : Not flammable under normal conditions of use. However, may ignite if exposed to extreme heat and flame. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.
In the event of fire the following can be released: Carbon oxides; Calcium oxides; Nitrogen oxides (NO_x); Phosphorus oxides; Sulphur oxides; Polycyclic aromatic hydrocarbons; formaldehyde; Other unidentified organic compounds

5.3 Advice for firefighters

Protective equipment for fire-fighters

- : Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

Special fire-fighting procedures

- : Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

- : Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. All persons dealing with the clean-up should wear the appropriate chemically protective equipment. Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

- : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces.

6.3 Methods and material for containment and cleaning up

- : Ventilate area of release. Stop the spill at source if it is safe to do so. Use inert, non-combustible absorbents to assist the pick up of material. Scrape up product and place it into a container for disposal. Notify the appropriate authorities as required. Refer to Section 13 for disposal of contaminated material.



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6.4 Reference to other sections

- : Refer to protective measures listed in sections 7 and 8. Refer to Section 13 for disposal of material.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

- : Wear suitable protective equipment during handling. Use with adequate ventilation. Training the workers on the potential health hazards associated with product vapor, dust or fume is important. Secondary inhalation exposures could occur when cleaning equipment, or when removing or laundering the clothing. Avoid breathing vapors, fumes or dust. Avoid contact with skin, eyes and clothing. Keep away from extreme heat and flame. Keep away from acids and incompatibles. Keep containers closed when not in use. Wash thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

- : Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat. Inspect periodically for damage or leaks. Protect against physical damage. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel.

7.3 Specific end use(s)

- : Heat conducting compound.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

Exposure Limits:

| <u>Chemical Name</u> | <u>Exposure Limits</u> | <u>Type</u> | <u>Notes</u> |
|----------------------|--|---------------------------|--|
| Calcium carbonate | 10 mg/m ³ (Inhalable dust) (TWA) 4 mg/m ³ (Respirable dust) (TWA) | The United Kingdom (WELs) | N/Av |
| Talc | 2 mg/m ³ (respirable dust) (TWA) | Italy (OEL) | Recommended exposure limit based on ACGIH TLVs |
| | 4 mg/m ³ (total inhalable dust); 1 mg/m ³ (respirable dust) (TWA) | Poland (OEL) | None. |
| | 2 mg/m ³ (respirable dust) (TWA) | Spain (OEL) | None. |
| | 1 mg/m ³ (respirable dust) (TWA) | The United Kingdom (WELs) | None. |

Biological Exposure Indices:

No biological exposure limits noted for the ingredient(s).



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Derived No Effect Level (DNEL)

(CAS 14807-96-6)

general population inhalation systemic effects long term exposure 1.08 mg/m³ ; general population inhalation systemic effects acute/short term exposure 1.08 mg/m³ ; general population inhalation local effects long term exposure 1.8 mg/m³ ; general population inhalation local effects acute/short term exposure 1.8 mg/m³ ; workers inhalation systemic effects long term exposure 2.16 mg/m³ ; workers inhalation systemic effects acute/short term exposure 2.16 mg/m³ ; general population dermal local effects long term exposure 2.27 mg/cm² ; workers inhalation local effects long term exposure 3.6 mg/m³ ; workers inhalation local effects acute/short term exposure 3.6 mg/m³ ; workers dermal local effects long term exposure 4.54 mg/cm² ; general population dermal systemic effects long term exposure 21.6 mg/kg bw/day ; workers dermal systemic effects long term exposure 43.2 mg/kg bw/day ; general population oral systemic effects long term exposure 160 mg/kg bw/day ; general population oral systemic effects acute/short term exposure 160 mg/kg bw/day

Predicted No Effect Concentration (PNEC)

(CAS#14807-96-6)

10 mg/m³ (ai); 597.97 mg/L (freshwater); 141.26 mg/L (marine water); 597.97 mg/L (freshwater (intermittent releases); 141.26 mg/L (marine water (intermittent releases); 31.33 mg/kg C (sediment (freshwater); 3.13 mg/kg (sediment (marine water)

8.2 Exposure controls

Ventilation and engineering measures

: Use with adequate ventilation. Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.

Respiratory protection : In case of inadequate ventilation wear respiratory protection. Advice should be sought from respiratory protection specialists.

Skin protection : Gloves impervious to the material are recommended. Advice should be sought from glove suppliers.

Eye / face protection : Safety goggles or glasses as appropriate for the job.

Other protective equipment

: Where extensive exposure to product is possible, use resistant coveralls, apron and boots to prevent contact. Ensure that eyewash stations and safety showers are close to the workstation location.

General hygiene considerations

: Avoid breathing vapors, fumes or dust. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use.

8.3 Environmental exposure controls

: Avoid release to the environment.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state : Paste

Colour : Tan

Odour : No odour.

Odour threshold : Not available.

pH : Not available.

Flash point : Not applicable.

Flashpoint (Method) : Not applicable.

Lower flammable limit (% by vol.)

: Not applicable.

Upper flammable limit (% by vol.)

: Not applicable.



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Auto-ignition temperature

: Not applicable.

Decomposition temperature

: Not available.

Oxidizing properties : Not applicable

Explosive properties : Not explosive

Initial boiling point and boiling range

: Not available.

Melting/Freezing point : Not available.

Relative density : 1.6

Solubility in water : insoluble

Other solubility(ies) : Not available.

Vapour pressure : Not available.

Vapour density : Not available.

Partition coefficient: n-octanol/water

: Not available.

Viscosity : Not available.

Evaporation rate (BuAe = 1)

: Not available.

Particle characteristics : Not applicable.

9.2 Other Information

Volatiles (% by weight) : Not available.

Volatile organic Compounds (VOC's)

: Not applicable.

Other physical/chemical comments

: No additional information.

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity : Not normally reactive.

10.2 Chemical stability : Stable under the recommended storage and handling conditions prescribed.

10.3 Possibility of hazardous reactions

: Hazardous polymerization will not occur.

10.4 Conditions to avoid : Avoid heat and open flame. Avoid contact with incompatible materials. Do not use in areas without adequate ventilation.

10.5 Incompatible materials

: Acids; Oxidizing agents.

10.6 Hazardous decomposition products

: None known.

In the event of fire the following can be released: Carbon oxides; Nitrogen oxides (NOx); Phosphorus oxides; Sulphur oxides; Polycyclic aromatic hydrocarbons; formaldehyde; Other unidentified organic compounds

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological effects:

Acute toxicity : According to the classification criteria of the European Union, this product is not considered as being an acutely toxic chemical.



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Skin corrosion/Irritation : According to the classification criteria of the European Union, this product is not considered as being a skin corrosive or irritant.

Serious eye damage/irritation

: According to the classification criteria of the European Union, the product is not considered as being an eye irritant.

Respiratory or skin sensitisation

: According to the classification criteria of the European Union, this product is not considered as being an allergic skin sensitiser. According to the classification criteria of the European Union, this product is not considered as being an allergic respiratory sensitiser.

Germ cell mutagenicity : According to the classification criteria of the European Union, the product is not considered as being a germ cell mutagen.

Carcinogenicity : According to the classification criteria of the European Union, the product is not considered as being a carcinogen.

Reproductive toxicity : According to the classification criteria of the European Union, this product is not considered as being toxic to reproduction.

STOT-single exposure : According to the classification criteria of the European Union, this product is not expected to cause target organ toxicity through a single exposure.

STOT-repeated exposure : According to the classification criteria of the European Union, this product is not expected to cause target organ toxicity through repeated exposures.

Aspiration hazard : According to the classification criteria of the European Union, this product is not considered as being an aspiration hazard to humans.

Routes of exposure : Eye contact; Skin contact; Inhalation; Ingestion

Effects of acute exposure : Inhalation; Mild respiratory irritant

Skin contact: Direct skin contact may cause slight or mild, transient irritation.

Eye contact: Dust contact with the eyes can lead to mechanical irritation. :

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Potential Chronic Health Effects

: None expected, when used as intended.

If dusts are formed, prolonged inhalation may result in chronic respiratory disease. Pneumoconiosis, or "dusty lung" disease, may result from chronic exposure to any dust.

11.1.1 Acute Toxicity

Toxicological data

: No data is available on the product itself. See below for individual ingredient acute toxicity data. Contains no ingredients that are considered to have acute toxicity hazards.

| <u>Chemical name</u> | <u>LC₅₀(4hr)</u> | <u>LD₅₀</u> | |
|----------------------|-----------------------------|------------------------|-------------------------|
| | <u>inh, rat</u> | <u>(Oral, rat)</u> | <u>(Rabbit, dermal)</u> |
| Calcium carbonate | >3 mg/L | 6450 mg/kg | >2000 mg/kg |
| Talc | N/Av | N/Av | N/Av |

11.2 Information on other Hazards

: None known or reported by the manufacturer.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

: No data is available on the product itself. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters. See the following tables for individual ingredient ecotoxicity data.



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Ecotoxicity data:

| <u>Ingredients</u> | CAS No | Toxicity to Fish | | |
|--------------------|------------|-----------------------|----------------------------|----------|
| | | LC50 / 96h | NOEC / 21 day | M Factor |
| Calcium carbonate | 1317-65-3 | N/Av | N/Av | N/Av |
| Talc | 14807-96-6 | > 110 000 mg/L (QSAR) | 1413 mg/L (30 days) (QSAR) | None. |

| <u>Ingredients</u> | CAS No | Toxicity to Daphnia | | |
|--------------------|------------|---------------------|----------------------------|----------|
| | | EC50 / 48h | NOEC / 21 day | M Factor |
| Calcium carbonate | 1317-65-3 | N/Av | N/Av | N/Av |
| Talc | 14807-96-6 | 36 812 mg/L (QSAR) | 1460 mg/L (30 days) (QSAR) | None. |

| <u>Ingredients</u> | CAS No | Toxicity to Algae | | |
|--------------------|------------|-------------------------------------|-------------------|----------|
| | | EC50 / 96h or 72h | NOEC / 96h or 72h | M Factor |
| Calcium carbonate | 1317-65-3 | N/Av | N/Av | N/Av |
| Talc | 14807-96-6 | 7203 mg/L/96hr (Green algae) (QSAR) | N/Av | None. |

12.2 Persistence and degradability

: The product itself has not been tested.

12.3 Bioaccumulation potential

: The product itself has not been tested. See the following data for ingredient information.

Components

Partition coefficient n-octanol/water (log Kow)

Bioconcentration factor (BCF)

Talc (CAS 14807-96-6)

- 1.5 (estimated)

N/Av

12.4 Mobility in soil

: The product itself has not been tested.

12.5 Results of PBT and vPvB assessment

: This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

12.6 Endocrine disrupting properties

: None known or reported by the manufacturer.

12.7 Other Adverse Environmental effects

: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

12.8 Additional information

: None known.



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SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

- Handling for Disposal** : Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8. This material and its container must be disposed of in a safe way.
Handle waste according to recommendations in Section 7. Follow labeled warnings even after container is emptied. Empty containers retain residue and can be dangerous.
- Methods of Disposal** : Dispose of in accordance with the European Directives on waste and hazardous waste. Waste must be classified and labelled prior to recycling or disposal. Waste codes should be assigned by the user based on the application for which the product was used. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

SECTION 14. TRANSPORTATION INFORMATION

| Regulatory Information | 14.1 UN Number | 14.2 UN proper shipping name | 14.3 Transport hazard class(es) | 14.4 Packing Group | Label |
|----------------------------------|---|------------------------------|---------------------------------|--------------------|-------|
| ADR/RID | None. | not regulated | not regulated | none | |
| ADR/RID Additional information | Not classified as dangerous for conveyance in the meaning of the regulations for the transport of dangerous goods by road and rail. | | | | |
| ICAO/IATA | None. | Not regulated. | not regulated | none | |
| ICAO/IATA Additional information | None. | | | | |
| IMDG | None. | Not regulated. | not regulated | none | |
| IMDG Additional information | None. | | | | |

14.5 Environmental hazards : This substance does not meet the criteria for an environmentally hazardous substance according to the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.

14.6 Special precautions for user

- : Appropriate advice on safety must accompany the package.

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

- : This information is not available.

SECTION 15. REGULATORY INFORMATION

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



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: Classification according to Regulation (EC) No. 1272/2008 on the classification of hazardous mixtures. This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended [including Regulation (EU) 2023/707].

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended: Not applicable.

Restrictions on use:

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use, as amended: Not applicable.

Directive 2012/18/EU (Seveso III) on the control of major-accident hazards involving dangerous substances: Not applicable.

Directive 98/24/EC on the protection of the health and safety of workers from risks related to chemical agents at work: Not applicable.

Directive 94/33/EC on the protection of young people at work: Not applicable.

RoHS European Union's Directive 2002/95/EC, the Restriction of the Use of certain Hazardous Substances in Electrical and Electronic Equipment (RoHS): Not applicable

German legislation on substances that are hazardous to water AwSV: Water hazard class (Germany) - 1 (self classified)

15.2 Chemical safety assessment

: A chemical safety assessment has not been carried out by the Manufacturer of this product.



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SECTION 16. OTHER INFORMATION

| | |
|---------------|--|
| Legend | : ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road CAS: Chemical Abstract Services EC: European Community EC50: Effective Concentration 50% EU: European Union EN: European Standard EEC: European Economic Community ECHA: European Chemicals Agency HSDB: Hazardous Substances Data Bank IATA: International Air Transport Association IBC: Intermediate Bulk Container ICAO: International Civil Aviation Organisation IMDG: International Maritime Dangerous Goods Inh: Inhalation LC: Lethal Concentration LD: Lethal Dose NIOSH: National Institute of Occupational Safety and Health N/Av: Not Available N/Ap: Not Applicable NOEC: No observable effect concentration OECD: Organisation for Economic Co-operation and Development OSHA: Occupational Safety and Health Administration PEL: Permissible exposure limit PICCS: Philippine Inventory of Chemicals and Chemical Substances STEL: Short Term Exposure Limit TWA: Time Weighted Average TLV: Threshold Limit Values |
|---------------|--|

Information Source : 1. Material Safety Data Sheet from manufacturer.
2. Canadian Centre for Occupational Health and Safety, CCInfoWeb Databases
3. European Chemicals Agency, Classification Legislation
4. OECD - The Global Portal to Information on Chemical Substances

Preparation Date (dd/mm/yyyy) : 20/04/2023

Reviewed Date SDS (dd/mm/yyyy) : 15/10/2024

Revision No. : 2

Revision Information : 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY /
UNDERTAKING 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Regulation and Procedure :

not regulated; Expert judgement

H-phrases (full-text)
EUH210 - Safety data sheet available on request.

Other special considerations for handling

: Provide adequate information, instruction and training for operators.



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|---|--|
| <p><u>Prepared for:</u> Parker Hannifin Corporation Sporlan Division 206 Lange Drive, Washington, MO 63090 U.S.A. Telephone: +001 (636) 239-1111 www.parker.com Direct all enquiries to: Parker Hannifin Corp. Sporlan Division.</p> |  |
| <p><u>Prepared by:</u> ICC The Compliance Center Inc. http://www.thecompliancecenter.com</p> |  |

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