

Section 1: Identification**1.1. Product identifier**

Product form : Substance
Product Identifier(s) : Wingtack® 98
Wingtack® 98 Flake
Wingtack® 98 Pastille
Wingtack® 98 Molten
WT 98
CAS No : 26813-14-9

1.2. Recommended use of the chemical and restrictions on use

Use of the substance/mixture : Additive for paints, coatings, inks, adhesives
Rubbers

1.3. Details of the supplier of the safety data sheet

Total Petrochemicals & Refining USA, Inc.
Cray Valley Division
PO Box 674411
Houston, TX 77267-4411

For non-emergency product information:
Phone: 713-483-5000 or 1-877-871-2709
Email: product.stewardship@total.com

1.4. Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300 (Toll Free USA & Canada) / 703-527-3887 (Multiple languages)
Total Petrochemicals & Refining USA, Inc.: 1-800-322-3462 (Language: English only)

Section 2: Hazards identification**2.1. Classification of the substance or mixture****Classification (GHS-US)**

Combustible Dust

2.2. Label elements**GHS-US labeling**

Signal word (GHS-US) : **Warning**
Hazard statements (GHS-US) : **May form combustible dust concentrations in air**
Precautionary statements (GHS-US) : Precautionary statement not required.

2.3. Hazards not otherwise classified

No additional information available

2.4. Unknown acute toxicity (GHS-US)

Not applicable

2.5. Additional information

Based on conditions common to industrial workplace use of this product : Contact with skin or eyes with hot material may cause serious thermal burns to skin or eyes.
Vapors formed when material is processed at high temperatures may be irritating to the eyes and upper respiratory tract.
Based on professional judgment, inconclusive testing, or sensitive individuals : Dust from this product may cause respiratory irritation
Repeated or prolonged contact may cause slight irritation to the skin

Section 3: Composition/information on ingredients**3.1. Substance**

Chemical name : 1,3-Pentadiene, polymer with 2-methyl-2-butene

Wingtack® 98

Safety Data Sheet

CAS No : 26813-14-9
Generic name : Aliphatic C5 Petroleum Hydrocarbon Resin

3.2. Mixture

Not applicable

Section 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove to fresh air and keep at rest in a position comfortable for breathing.
First-aid measures after skin contact : Wash with plenty of soap and water. If irritation persists, consult a doctor. Heated Material: For serious burns from heated material, get medical attention. In case of skin contact, immediately immerse in or flush with clean, cold water. Do not attempt to remove adhered material from skin.
First-aid measures after eye contact : Rinse cautiously with water for several minutes. Obtain medical attention if pain, blinking, tears or redness persist.
First-aid measures after ingestion : Rinse mouth out with water. If necessary seek medical advice.

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

Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

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

Treat symptomatically.

Section 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide. Foam. Dry chemical.

5.2. Special hazards arising from the chemical

Fire hazard : May form combustible dust concentrations in air. Vapors generated from overheating/melting/decomposition may be flammable and may cause fire/explosion if source of ignition is present.
Explosion hazard : Potential dust explosion hazard. When dust becomes airborne and is exposed to an ignition source, sufficient combustible/flammable dust may exist to burn in the open or explode if confined. The minimum explosive dust cloud for Wingtack dust was measured to be 0.12 oz/ft3.
Hazardous decomposition products in case of fire : Carbon oxides (CO, CO2). Toxic fumes.

5.3. Advice for firefighters

Firefighting instructions : Fight fire from safe distance and protected location. Use water spray or fog for cooling exposed containers. Avoid raising powdered materials into airborne dust, creating an explosion hazard. Apply aqueous extinguishing media carefully to prevent frothing/steam explosion. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Complete protective clothing. Self-contained breathing apparatus.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Emergency procedures for non-emergency personnel : Remove ignition sources. Ensure adequate ventilation. Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures for emergency responders : No additional requirement.

6.2. Methods and material for containment and cleaning up

For containment : Sweep up or vacuum up the product.
Methods for cleaning up : Dispose of materials or solid residues at an authorized site.

6.3. Reference to other sections

See section 8. Exposure controls/personal protection.

Wingtack® 98

Safety Data Sheet

Section 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with heated product to prevent burns. Prevent the build-up of electrostatic charge. Use only non-sparking tools. Handling this product may result in electrostatic accumulation. Use proper grounding procedures. The plastic packaging film used to secure bags of material on pallets can also develop static electricity -- remove packaging film in an area free from ignitable vapors/dust. Refer to the latest edition of the National Fire Protection Association (NFPA) 654 publication, "Standard for the Prevention of Fire and Dust Explosions in the Chemical, Dye, Pharmaceutical, and Plastics Industries", for complete discussion on dust explosion prevention and control measures. This material may be shipped as a viscous, molten product at elevated temperatures (approximately 204 °C), but below its flashpoint, to facilitate transfer to storage containers or processing vessels. If frozen, thaw and mix thoroughly before use.
- Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Electrical equipment should conform to the National Electric Code.
- Storage conditions : Keep container tightly closed. Store in a dry, cool area. Flaked forms may degrade by gradual oxidation. Protect from freezing.
- Maximum storage period : 12 months
- Storage temperature : < 40 °C

Section 8: Exposure controls/personal protection

8.1. Occupational Exposure Limits

Wingtack® 98 (26813-14-9)		
USA ACGIH	ACGIH TWA (mg/m ³)	10 mg/m ³ (inhalable dust) 3 mg/m ³ (respirable dust)
USA ACGIH	Remark (ACGIH)	Particulates, not otherwise classified
USA OSHA	OSHA PEL (TWA) (mg/m ³)	15 mg/m ³ (total dust) 5 mg/m ³ (respirable dust)
USA OSHA	Remark (US OSHA)	Particulates, not otherwise classified

8.2. Exposure controls

- Appropriate engineering controls : Ensure good ventilation of the work station.
- Hand protection : Protective gloves made of rubber or PVC.
- Eye protection : Safety glasses.
- Skin and body protection : Wear fire/flamm resistant/retardant clothing. Wear suitable protective clothing.
- Respiratory protection : In case of inadequate ventilation wear respiratory protection.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Solid
- Appearance : Flakes. Pastilles.
- Color : Pale yellow.
- Odor : Mild.
- Odor threshold : No data available
- pH : Not applicable
- Relative evaporation rate (butyl acetate=1) : No data available
- Melting point : No data available
- Freezing point : No data available
- Boiling point : No data available
- Flash point : ~ 225 °C (PMCC)
- Auto-ignition temperature : No data available
- Decomposition temperature : No data available
- Flammability (solid, gas) : No data available
- Vapor pressure : 8 @204°C/400°F
- Relative vapor density at 20 °C : No data available
- Relative density : 0.95

Wingtack® 98

Safety Data Sheet

Solubility	: Water: Insoluble
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive limits	: No data available

9.2. Other information

Explosive properties	: Explosion Index, Kst (bar. m/s) : 200 - 213 * Max. Explosive Pressure (Pmax), bar : 8.8 *
Minimum ignition energy	: < 3 mJ
Softening point	: 99 °C
Additional information	: Data denoted with an asterisk is from a representative product or class of products

Section 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable under use and storage conditions as recommended in section 7.

10.3. Possibility of hazardous reactions

Dust may form explosive mixture in air.

10.4. Conditions to avoid

Avoid the build-up of electrostatic charge. High temperature. Avoid dust formation. Direct sunlight.

10.5. Incompatible materials

Strong acids.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11: Toxicological information

11.1. Information on toxicological effects

Likely routes of exposure	: Ingestion. Skin and eye contact.
Acute toxicity	: Not classified Based on available data, the classification criteria are not met
Skin corrosion/irritation	: Not classified Based on available data, the classification criteria are not met Practically non-irritating (rabbit)
Serious eye damage/irritation	: Not classified Based on available data, the classification criteria are not met
Respiratory or skin sensitization	: Not classified Based on available data, the classification criteria are not met Does not cause cutaneous sensitization for guinea-pigs
Germ cell mutagenicity	: Not classified Lack of data
Carcinogenicity	: Not classified Lack of data
Reproductive toxicity	: Not classified Lack of data
Specific target organ toxicity (single exposure)	: Not classified Lack of data
Specific target organ toxicity (repeated exposure)	: Not classified Lack of data

Wingtack® 98

Safety Data Sheet

Aspiration hazard	: Not classified Not applicable
Potential Adverse human health effects and symptoms	: Product may cause mild skin irritation. Dust from this product may cause eye irritation. Dust from this product may cause respiratory irritation.

Section 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

Section 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Transfer to a safe disposal area in accordance with federal, state, and local regulations.

Section 14: Transport information

US Transport (DOT) for Bulk Shipments (Non-Bulk Shipments May Differ)

Not a DOT controlled material

If shipped as a liquid material at a temperature above 100 °C, this product should be classified for US DOT as: UN 3257, Elevated temperature liquid, n.o.s. (petroleum hydrocarbon resin), 9, PG III

Transport by sea (IMDG)

Not an IMDG controlled material

Air transport (IATA)

Not an IATA controlled material

Section 15: Regulatory information

15.1. US Federal regulations

Wingtack® 98

TSCA

All components of this product are listed or exempted from listing on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

SARA 313

This product contains no chemicals in excess of the applicable de minimis concentration that are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372 (Table 372.65).

SARA Section 311/312 Hazard Classes : Fire hazard

Export Control Classification Number (ECCN): : EAR99 (No License Required)

15.2. International regulations

CANADA

No additional information available

National inventories

1,3-Pentadiene, polymer with 2-methyl-2-butene (26813-14-9)

Listed on the AICS (the Australian Inventory of Chemical Substances)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Listed on the China Inventory of Existing Chemical Substances (IECSC)

Wingtack® 98

Safety Data Sheet

Listed on the Korean ECL (Existing Chemical List) inventory.
Listed on New Zealand - Inventory of Chemicals (NZIoC)
Listed on the Philippines Inventory of Chemicals and Chemical Substances (PICCS)

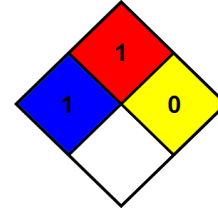
15.3. US State regulations

California Proposition 65 - To the best of our knowledge, there are no Proposition 65 chemicals present in this product at levels that would require warning under the California Safe Drinking Water and Toxic Enforcement Act.

Section 16: Other information

NFPA (National Fire Protection Association)

NFPA health hazard : 1
NFPA fire hazard : 1
NFPA reactivity : 0



HMIS III Rating

Health : 1
Flammability : 1
Physical Hazard : 0
Personal Protection : See section 8 of SDS

US OSHA LABEL as specified under 29 CFR §1910.1200 (f)

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Houston, TX 77267-4411 USA
Tel. 713-483-5000 or 1-877-871-2709

Warning

May form combustible dust concentrations in air

Precautionary statement not required.

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SDS REFERENCE NUMBER: 4559M

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