



Clear tack® W 100

Safety Data Sheet

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Section 1: Identification

1.1. Product identifier

Product form : Substance
Product Identifier(s) : Clear tack® W 100
Norsolene EU W100
CAS-No. : 9011-11-4

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 1-877-871-2729
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) : **If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air**
Precautionary statements (GHS-US) : Precautionary statements not required. Consult the SDS for additional safety information.

2.3. Hazards not otherwise classified

Other hazards not contributing to the classification : Product can accumulate electrostatic charges that may cause fire by electrical discharges.

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.
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

Substance type : Polymer
Chemical name : Ethenylbenzene, copolymer with (1-methylethenyl)benzene
CAS-No. : 9011-11-4
Generic name : Hydrocarbon Resin

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3.2. Mixture

Not applicable

Section 4: First aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- First-aid measures after skin contact : Wash skin with plenty of water. If irritation persists, consult a doctor. Contact burns from hot or very cold materials should be flooded with cool low pressure water for 15 minutes. In case of severe burns, seek hospital treatment.
- 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/effects : 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 : Water spray or fog. Carbon dioxide. Foam. Dry chemical. Dry powder. Sand.
- Unsuitable extinguishing media : Use of heavy stream of water may spread fire.

5.2. Special hazards arising from the chemical

- Fire hazard : vapors may cause fire/explosion if source of ignition is present.
- Explosion hazard : Potential dust explosion hazard. Avoid raising powdered material due to explosion hazard. Local exhaust and general room ventilation are both essential to prevent accumulation of flammable vapor or dust mixtures.
- Hazardous decomposition products in case of fire : Carbon oxides (CO, CO₂). Toxic fumes. aromatic hydrocarbons.

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 : If spilled, may cause the floor to be slippery. Clean up immediately by sweeping or vacuum. 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 : Do not attempt to take action without suitable protective equipment. Avoid contact with skin, eyes and clothing.

6.2. Methods and material for containment and cleaning up

- For containment : Spilled material may present a slipping hazard. 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.

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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.

When heated above 170 °C for at least 20 minutes, alpha-methyl styrene is generated by depolymerization. Wear Approved organic vapor respirator.

Combustible dust precautions: Handling this product may result in electrostatic accumulation. Use proper grounding procedures. Use only non-sparking tools. Avoid raising powdered material due to explosion hazard. Prevent the build-up of electrostatic charge. 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. The low Glass Transition (T_g) temperature of this product(s) make it prone to remassing.

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. Protect from sunlight. Store in a well-ventilated place. degradation by free radicals OH.

Incompatible materials : Strong oxidizing agents.

Storage temperature : < 35 °C

Packaging materials : Plastic.

Section 8: Exposure controls/personal protection

8.1. Occupational Exposure Limits

The following constituents are the only constituents of the product which have a PEL, TLV, or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

| Clear tack® W 100 (9011-11-4) | | |
|-------------------------------|-------------------------------------|--|
| 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) |
| USA OSHA | Remark (OSHA) | Particulates, not otherwise classified |

8.2. Exposure controls

Appropriate engineering controls : Provide readily accessible eye wash stations and safety showers. Ensure good ventilation of the work station.

Hand protection : Protective gloves.

Eye protection : Safety glasses.

Skin and body protection : 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 : Pastilles.

Color : Colorless.

Odor : Mild. Hydrocarbon.

Odor threshold : No data available

pH : No data available

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 : > 250 °C

Auto-ignition temperature : No data available

Decomposition temperature : No data available

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|---------------------------------|---|
| Flammability (solid, gas) | : No data available |
| Vapor pressure | : No data available |
| Relative vapor density at 20 °C | : No data available |
| Relative density | : No data available |
| Specific gravity / density | : 1.05 - 1.07 g/m ³ @ 20 °C |
| Solubility | : Soluble in most organic solvents. Soluble in aromatic hydrocarbons. Water: Insoluble |
| Log Kow | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosion limits | : No data available |

9.2. Other information

| | |
|-------------------------|---|
| Explosive properties | : Explosion Index, Kst (bar. m/s) : 200 - 315* Max. Explosive Pressure (Pmax), bar : 8.8*. |
| Minimum ignition energy | : 1 - 3 mJ * |
| Softening point | : 100 °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. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

No additional information available

Section 11: Toxicological information

11.1. Information on toxicological effects

| | |
|---------------------------|--|
| Likely routes of exposure | : Inhalation. Ingestion. Skin and eye contact. |
| Acute toxicity | : Not classified Based on available data, the classification criteria are not met |

| | |
|--------------------------------------|--|
| Clear tack® W 100 (9011-11-4) | |
| LD50 oral rat | > 2000 mg/kg Directive (92/69/EEC) - Method B1 / (OECD 423 method) |

| | |
|-----------------------------------|--|
| Skin corrosion/irritation | : Not classified Based on available data, the classification criteria are not met Not irritating to skin (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 Based on available data, the classification criteria are not met |

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|--|--|
| Carcinogenicity | : Not classified Based on available data, the classification criteria are not met |
| Reproductive toxicity | : Not classified Based on available data, the classification criteria are not met |
| Specific target organ toxicity – single exposure | : Not classified Based on available data, the classification criteria are not met |
| Specific target organ toxicity – repeated exposure | : Not classified Based on available data, the classification criteria are not met |
| Aspiration hazard | : Not classified Not applicable |

Section 12: Ecological information

12.1. Toxicity

Ecology - general : Do not allow product to spread into 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.

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Section 14: Transport information

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

Not regulated by US DOT

Transport by sea (IMDG)

Not regulated by IMDG

Air transport (IATA)

Not regulated by IATA

Section 15: Regulatory information

15.1. US Federal regulations

EPA TSCA Status

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

SARA Section 313 Supplier Notification

This product contains no toxic 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.

SARA Section 311/312 Hazard Classes : Fire hazard

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

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15.2. International regulations

CANADA

No additional information available

National inventories

Ethenylbenzene, copolymer with (1-methylethenyl)benzene (9011-11-4)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on the Canadian DSL (Domestic Substances List)

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

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on the Philippines Inventory of Chemicals and Chemical Substances (PICCS)

15.3. US State regulations

This product may contain California Proposition 65 substances at concentration levels below those required to be classified as hazardous by OSHA's Hazard Communication Standard (29 CFR 1910.1200). Contact Total Petrochemicals & Refining USA, Inc. if you need specific information regarding status of this product with regard to California Proposition 65.

Section 16: Other information

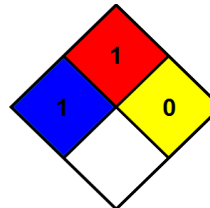
Other information : Unless agreed to in a separate written agreement with the Customer, Total Petrochemicals & Refining USA, Inc. makes no representations and disclaims all warranties, express or implied, with respect to biocompatibility and/or the suitability of this product for medical device applications including : (i) implantable devices intended for human or animal body, (ii) devices intended to be used in contact with internal body fluids, and (iii) devices intended to be used in contact with internal body tissues. If the Customer intends to use this product for any such application, it must first contact Total Petrochemicals & Refining USA, Inc. and establish agreed terms and conditions for such use.

NFPA (National Fire Protection Association)

NFPA health hazard : 1

NFPA fire hazard : 1

NFPA reactivity : 0



Hazard 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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Total Petrochemicals & Refining USA, Inc., Cray Valley Division
PO Box 674411
Houston, TX 77267-4411 USA
Tel. 713-483-5000 or 1-877-871-2729

Warning

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Precautionary statements not required. Consult the SDS for additional safety information.

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SDS REFERENCE NUMBER: FP11705

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Safety Data Sheet

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