Cleartack® W 110

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) : Cleartack® W 110
Cleartack® W 110 OS

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

TotalEnergies 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@totalenergies.com

1.4. Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300 (Toll Free USA & Canada) / 703-527-3887 (Multiple languages)
TotalEnergies 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

Carcinogenicity Category 2

2.2. Label elements

GHS US labeling

Hazard pictograms (GHS-US) :

Signal word (GHS US) : Warning

Hazard statements (GHS-US) : **Suspected of causing cancer**
If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air

Precautionary statements (GHS-US) : Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wear impermeable protective gloves, eye protection.
If exposed or concerned: Get medical advice/attention.
Store locked up.
Dispose of contents and container in accordance with all local, regional, national and international regulations.

2.3. Hazards not otherwise classified

Other hazards which do not result in 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
Name	:	Cleartack® W 110
CAS-No.	:	9011-11-4
Chemical name	:	Ethenylbenzene, copolymer with (1-methylethenyl)benzene
Generic name	:	Hydrocarbon Resin

Where concentrations in this product are displayed as ranges, it is due to batch-to-batch variability.

Impurities and/or Stabilizing Additives which Contribute to the Classification:

Name	CAS-No.	% (Weight Percent)
2-phenylpropene; alpha-methylstyrene (Impurity)	98-83-9	0.1 – 1

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	:	Gently 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 remove clothing adhering to the skin.
First-aid measures after eye contact	:	Rinse cautiously with water for several minutes. Obtain medical attention if pain, blinking, tears or redness persist. Heated Material: For serious burns from heated material, get medical attention. In case of contact with the eyes : Rinse immediately with plenty of water for 15 minutes.
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 after inhalation	:	Fine dust may cause irritation of respiratory system and mucous.
Symptoms/effects after skin contact	:	Contact with hot material - prevent serious burns. Repeated or prolonged skin contact may cause irritation.
Symptoms/effects after eye contact	:	Contact with hot material - prevent serious burns. Fine dust may cause irritation to ocular mucous.
Chronic symptoms	:	Suspected of causing cancer.

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 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. 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.

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 oC 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", and “Combustible Dust in Industry: Preventing and Mitigating the Effects of Fire and Explosions” (OSHA SHIB, July 31, 2005, updated Nov. 12, 2014, https://www.osha.gov/dts/shib/shib073105.html) for a complete discussion on dust explosion prevention and control measures.
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.
Incompatible materials	:	Strong oxidizing agents.
Storage temperature	:	< 40 °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.

Cleartack® W 110 (9011-11-4)		
USA ACGIH	ACGIH OEL TWA	10 mg/m³ inhalable dust 3 mg/m³ respirable dust
USA ACGIH	Remark (ACGIH)	Particulates, not otherwise classified

USA OSHA	OSHA PEL (TWA) [1]	15 mg/m³ (total dust)
USA OSHA	Remark (OSHA)	Particulates, not otherwise classified

2-phenylpropene; alpha-methylstyrene (98-83-9)		
USA ACGIH	ACGIH OEL TWA [ppm]	10 ppm
USA OSHA	OSHA PEL (Ceiling)	480 mg/m³
USA OSHA	OSHA PEL C [ppm]	100 ppm
IDLH	IDLH [ppm]	700 ppm

8.2. Exposure controls

Appropriate engineering controls : Ensure good ventilation of the work station. Safety shower. Eye fountain.
Hand protection : Impermeable protective gloves.
Eye protection : Safety glasses with side shields.
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 : Not applicable
Boiling point : Not applicable
Flash point : > 250 °C
Auto-ignition temperature : Not applicable
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapor pressure : Not applicable
Relative vapor density at 20 °C : Not applicable
Relative density : No data available
Density : 1.05 – 1.07 g/m³ (20 °C)
Solubility : soluble in most organic solvents. Soluble in aromatic hydrocarbons.
Water: Insoluble
Partition coefficient n-octanol/water (Log Kow) : No data available
Viscosity, kinematic : Not applicable
Viscosity, dynamic : Not applicable
Explosion limits : No data available

9.2. Other information

Explosive properties : Dust may form explosive mixture in air
Explosion Index, Kst (bar. m/s) : 200 - 315*
Max. Explosive Pressure (Pmax), bar : 8.8*.
Minimum ignition energy : 1 – 3 mJ *
Softening point : 110 °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

When heated above 170 oC for at least 20 minutes, alpha-methyl styrene is generated by depolymerization.

Section 11: Toxicological information

11.1. Information on toxicological effects

Likely routes of exposure : Inhalation. Ingestion. Skin and eye contact.

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

2-phenylpropene; alpha-methylstyrene (98-83-9)	
LD50 oral rat	4900 mg/kg
LD50 dermal rabbit	> 16 ml/kg

Skin corrosion/irritation : Not classified
Not irritating to skin
(rabbit)

Serious eye damage/irritation : Not classified

Respiratory or skin sensitization : Not classified
Does not cause cutaneous sensitization for guinea-pigs

Germ cell mutagenicity : Not classified

Carcinogenicity : Suspected of causing cancer.

2-phenylpropene; alpha-methylstyrene (98-83-9)	
IARC group	2B - Possibly carcinogenic to humans
National Toxicology Program (NTP) Status	Not listed

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified
Not applicable

Section 12: Ecological information

12.1. Toxicity

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

2-phenylpropene; alpha-methylstyrene (98-83-9)	
LC50 - Fish [1]	28 mg/l/48h (Leuciscus idus)

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

2-phenylpropene; alpha-methylstyrene (98-83-9)	
Partition coefficient n-octanol/water (Log Pow)	3.265

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) Active inventory. This product has no special requirements under TSCA, such as significant new use rules (SNUR), consent orders, test rules, or sections 4, 5, 6, 8(a), 8(d), 12(b) requirements.

SARA Section 313 Supplier Notification

This product contains the following toxic chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR 372:

CAS number	Chemical name	Concentration
98-83-9	2-phenylpropene; alpha-methylstyrene	0.1 – 1%

This information must be included in all Safety Data Sheets that are copied and distributed for this product. For additional information, see 40 CFR §372.45 Notification About Toxic Chemicals.

SARA Section 311/312 Hazard Classes: Health hazard - Carcinogenicity
Physical hazard - Combustible dust

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

15.2. International regulations

CANADA

No additional information available

National inventories

Cleartack® W 110 (9011-11-4)
Listed on or exempt from listing on the AICS (Australian Inventory of Chemical Substances)
Listed on or exempt from listing on the Canadian DSL (Domestic Substances List)
Listed on or exempt from listing on the China Inventory of Existing Chemical Substances (IECSC)
Listed on or exempt from listing on the Korean ECL (Existing Chemicals List)
Listed on or exempt from listing on NZIoC (New Zealand Inventory of Chemicals)
Listed on or exempt from listing on the Philippines Inventory of Chemicals and Chemical Substances (PICCS)

15.3. US State regulations

California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer and/or reproductive toxicity, not limited to any that may be listed below.

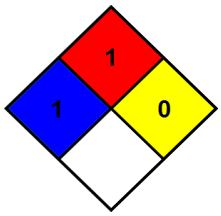
2-phenylpropene; alpha-methylstyrene (98-83-9)	
U.S. - California - Proposition 65 - Carcinogens List	Yes
U.S. - California - Proposition 65 - Developmental Toxicity	No
U.S. - California - Proposition 65 - Reproductive Toxicity - Female	No
U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No

Section 16: Other information

Other information : Unless agreed to in a separate written agreement with the Customer, TotalEnergies 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 TotalEnergies 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 System Rating

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

US SDS Version: 2.3
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SDS REFERENCE NUMBER: FP11706

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