

AdvaBond®8232

Section 1. Product and Company Identification

| | |
|--------------------------|----------------------------------------------------|
| Product Name: | AdvaBond®8232 |
| Chemical Name/Family: | Adhesion Promoter |
| CAS No.: | Mixture |
| Product Use: | Adhesion Promoter |
| Restrictions: | For Industrial Use Only |
| Company: | Advanced Polymer. |
| Address: | 400 Paterson Plank Road Carlstadt, NJ 07072 U.S.A. |
| Telephone: | 201-933-0600 |
| Fax: | 201-933-8442 |
| 24 Hour Emergency Number | 800-424-9300 |
| 24 Hour Chemtrec Number | 800-424-9300 |

Section 2. Hazards Identification

GHS Classification:

| | |
|---------------------------------|-------------|
| Acute toxicity, oral | Category 4 |
| Skin corrosion/irritation | Category 2 |
| Serious eye damage / irritation | Category 2A |
| Sensitization-skin | Category 1 |
| Carcinogenicity | Category 2 |
| Toxic to reproduction | Category 2 |

GHS Label:



Pictogram:

Signal Word: Warning

Hazard Classification:

Hazard Statement:

- Harmful if swallowed
- Causes skin irritation
- Causes serious eye irritation
- May cause an allergic skin reaction
- Suspected of causing cancer
- Suspected of damaging fertility or the unborn child

Precautionary Statement:

Prevention

- Wash uncovered body surface and hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Wear protective gloves / eye protection / face protection.
- Avoid breathing dust/fume/gas/mist/vapours/spray.
- Contaminated work clothing should not be allowed out of workplace.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Use personal protective equipment as required.

Response

- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- Rinse mouth.
- IF ON SKIN: Wash with plenty of soap and water.
- If skin irritation or rash occurs: Get medical advice/attention.
- Take off contaminated clothing and wash before use.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If eye irritation persists: Get medical advice/attention.
- Wash contaminated clothing before reuse.
- If exposed or concerned: Get medical advice/attention.

Storage

- Store locked up.

Disposal

- Dispose of contents/container in accordance with local / regional / national / international regulations.

Section 3. Composition/Information on Ingredients

| Ingredients | CAS No. | Percent |
|-----------------------------------------------|-----------|---------|
| ((4-(1,1-Dimethylethyl)phenoxy)methyl)oxirane | 3101-60-8 | <1.5 |
| Chloroform | 67-66-3 | <0.3 |

Section 4. First Aid Measures

- Skin Contact:** Wash with plenty of soap and water. If skin irritation or rash occurs, get medical advice / attention.
- Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists get medical advice / attention.
- Inhalation:** Remove to fresh air and keep at rest comfortable for breathing. Get medical attention if you feel unwell.
- Ingestion:** Rinse mouth with water. Call a POISON CENTER or doctor/physician if you feel unwell.

Section 5. Firefighting Measures

| | |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fire and Explosion Hazard: | None |
| Fire Extinguishing Media: | Water, regular dry chemical, carbon dioxide, alcohol resistant foam. |
| Unsuitable Extinguishing Media: | None |
| Specific Hazards in Case of Fire: | Avoid inhalation of toxic gas (containing carbon monoxide and hydrogen chloride) or fume generated by combustion. |
| Special Fire Fighting Information: | Evacuate personnel to a safe area. Wear self-contained breathing apparatus. Wear full protective equipment, air purifying respirators. Move containers from fire area if it can be done without risk. If you can not move, cool container and its surroundings with water spray. |

Section 6. Accidental Release Measures

| | |
|---------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal Precautions: | Avoid contact with skin or eyes. Avoid breathing vapours or mist. Ensure adequate ventilation. Evacuate personnel to safe areas. |
| Protective Equipment: | Use personal protective equipment (e.g. protective gloves, gas respirators, safety glasses or goggles). |
| Environmental Precautions: | The split materials stays for a long time in the environment and may affect adversely on wild animals. Sweep up thoroughly and place in a waste container. Discharge into the environment must be avoided. Do not let product enter the drain. |
| Methods and Materials for Containment and Cleaning up: | Pick-up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal. Use only non-sparking tools. Ground container and receiving equipment. Remove all sources of ignition. |

Section 7. Handling and Storage

| | |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Handling Conditions: | Provide appropriate exhaust ventilation at places where dust is formed. Since dust may be generated or static electricity may occur during handling, install electrostatics eliminators. Wash hands thoroughly and gargle after handling. When dissolving in a flammable liquid, or when using flammable liquids near the working place, electrostatics eliminators and grounding should be fixed to such equipment as air transferring pipes, bag filters and hoppers. Use an anti-static clothing, gloves and masks. Avoid contact with skin, eyes and clothing. Avoid inhalation of dust. Do not contact with (strong) oxidizing materials. |
| Storage Conditions: | Store at room temperature in a well-ventilated place. Store dark place. Store in a tightly closed container. Store at >32°F (>0°C). Preferably 41 – 104°F (5 – 40°C). Protect from sunlight. |
| Incompatible Substances | Strong oxidizing agents. |

Section 8. Exposure Control/Personal Protection

| | |
|------------------------------------------|----------------------------------------------------------------|
| Exposure Limits: | Chloroform: 10ppm ACGIH TLV-TWA |
| Appropriate engineering controls: | Provide local exhaust or process enclosure ventilation system. |
| Personal protective equipment: | |
| Respiratory Protection: | Chemical cartridge respirators, dust respirators |
| Hand Protection: | Chemical resistant gloves. |

| | |
|-----------------------------|--------------------------------------------------------------------------------------------|
| Eye Protection: | Wear Safety glasses. Chemical goggles. |
| Skin and Body Protection: | Wear appropriate chemical resistant clothing. |
| Other Protective Equipment: | Provide an emergency eye wash fountain and quick drench shower in the immediate work area. |
| Hygiene Measures: | Wash hands thoroughly after handling. |

Section 9. Physical and Chemical Properties

| | |
|-----------------------------------------------|--------------------|
| Physical State: | Viscous Liquid |
| Color: | Yellow |
| Odor: | Distinct odor |
| Odor Threshold: | No data available |
| pH: | No data available |
| Specific Gravity (77°F): | 0.99 |
| % Volatile by Weight: | No data available |
| Melting Point: | No data available |
| Freezing Point: | No data available |
| Boiling point: | No data available |
| Flash Point: | No data available |
| Evaporation Rate (BuAc=1): | No data available |
| Flammability: | No data available |
| Explosion Limits: | No data available |
| Vapor Pressure (mmHg): | No data available |
| Vapor Density (Air=1): | No data available |
| Solubility: | Insoluble in water |
| n-Octanol/Water Partition Coefficient: | No data available |
| Auto-ignition Temperature: | No data available |
| Viscosity: | No data available |
| Decomposition Temperature: | No data available |

Section 10. Stability and Reactivity

| | |
|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chemical Stability: | Stable at normal temperatures and pressure. On contact with hot surfaces or flames this substance decomposes forming carbon monoxide, hydrogen chloride. |
| Hazardous Polymerization: | May not occur |
| Conditions to Avoid: | Avoid heat and hot surface |
| Incompatible Materials: | Strong oxidizing materials |
| Hazardous Decomposition Products: | Thermal decomposition products: Carbon monoxide, hydrogen chloride |

Section 11. Toxicological Information

Primary Routes of Entry:

| | | | | | | | |
|------|-----|-------|-----|-------------|----|------------|-----|
| Eye: | Yes | Skin: | Yes | Inhalation: | No | Ingestion: | Yes |
|------|-----|-------|-----|-------------|----|------------|-----|

Potential Health Effects:

| | |
|-------------------------------------------|-----------------------------------------------------|
| Inhalation | No information available. |
| Ingestion: | Harmful if swallowed. |
| Skin: | Causes skin irritation. |
| Eyes: | Causes serious eye irritation. |
| Signs and Symptoms of Exposures: | No information available |
| Acute Toxicity: | Chloroform: Oral-Rat LD50 450mg/kg |
| Chronic Toxicity: | No information available |
| Respiratory or Skin Sensitization: | May cause an allergic skin reaction |
| Mutagenicity: | No information available |
| Reproductive toxicity: | Suspected of damaging fertility or the unborn child |
| Carcinogenicity: | Suspected of causing cancer Chloroform |

| | | | | | |
|-------|----|-------|----|-------|-------------------|
| IARC: | 2B | ACGIH | A3 | OSHA: | No data available |
|-------|----|-------|----|-------|-------------------|

Section 12. Ecological Information

| | |
|------------------------------------|----------------------------------------------------------------------------------------|
| Ecotoxicity | Classification not possible Chloroform: Oncorhynchus mykiss LC50 1.24-2.03mg/L/96hr |
| Persistence / Degradability | Classification not possible Chloroform: 0% (BOD) There is no rapid degradation. |
| Bioaccumulation | It is presumed that bioaccumulation is low. Chloroform: BCF = 13 |
| Mobility in Soil: | No data available |
| Other Adverse Effects: | No data available |

Section 13. Disposal Considerations

| | |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product: | Dispose of contents/container in accordance with local / regional / national / international regulations. Do not dump into sewers, on the ground or into any body of water. |
| Disposing of Contaminated Packaging: | Contact a licensed professional waste disposal service to this material. |

Section 14. Transport Information

| | |
|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Land Transport (DOT): | Not regulated |
| Sea Transport (IMDG): | Not regulated |
| Air Transport (IATA): | Not regulated |
| Environmental Hazards (e.g., Marine pollutant): | No data available |
| Specific precautions | Follow all of the laws and regulations in your country. Do not drop, overturn or destroy containers for heavy load. To prevent packages from breaking, keep dry and handle with care. |

Section 15. Regulatory Informational

International Inventories:



| | |
|----------------------|------------------------------------------------|
| TSCA (USA): | Listed |
| DSL (Canada): | Listed |
| ENCS (Japan) | One or more of the ingredients are not listed. |
| REACH (Europe): | Pre-registered substances |
| IECSC (China): | One or more of the ingredients are not listed. |
| KECL (Korea): | One or more of the ingredients are not listed. |
| PICCS (Philippines): | One or more of the ingredients are not listed. |
| AICS (Australia): | One or more of the ingredients are not listed. |
| TCSI (Taiwan): | Listed |
| ERMA (New Zealand): | One or more of the ingredients are not listed. |

Federal Regulations:

| | |
|------------------------------------------------|--------------------------|
| SARA 313: | Chloroform |
| SARA 311/312: | No information available |
| Clean Water Act: | No information available |
| Clean Air Act, Section 112 HAPs (See 40CFR61): | No information available |

State Regulations:

| | |
|-----------------------------------------|--------------------------|
| Massachusetts Right to Know Components: | No information available |
| New Jersey Right to Know Components: | Chloroform |
| Pennsylvania Right to Know Components: | No information available |
| California Proposition 65: | Chloroform |

Section 16. Other Information

WHMIS Classification: No information available

HMIS Rating:

| | |
|--------------------------------|---|
| Health Hazard | 1 |
| Flammability: | 1 |
| Physical Hazard: | 0 |
| Personal Protection Equipment: | X |

NFPA Rating

| | |
|--------------------|---|
| Health Hazard: | 1 |
| Fire Hazard: | 1 |
| Reactivity Hazard: | 0 |

Date Prepared July 12, 2018
 Prepared By Advanced Polymer.
 Date Revised October 20, 2021
 Revised By Advanced Polymer.

THE INFORMATION AND RECOMMENDATIONS HEREIN, ARE TO THE BEST OF OUR KNOWLEDGE, TRUE AND ACCURATE. NO WARRANTY, EXPRESS OR IMPLIED, IS MADE OR INTENDED.

TO THE CUSTOMERS OF ADVANCED POLYMER, INC.

All statements, technical information and recommendations contained herein are based on tests we believe to be reliable, but the accuracy or completeness thereof is not guaranteed, and the following is made in lieu of all warranties, express or implied:

Seller's and manufacturer's only obligation shall be to replace such quantity of the product proved to be defective. Neither seller nor manufacturer shall be liable for any injury, loss of damage, direct, or consequential arising out of the use of or the inability to use the product. Before using, user shall determine the suitability of the product for his intended use. The user assumes all risk and liability whatsoever in connection therewith.

No statement or recommendation contained herein shall have any force or effect unless in an agreement signed by officers of seller and manufacturer. Since the manufacturer of the product described in this technical data sheet has no means of controlling the final use of the product by the consumer for the user, it is the responsibility of the immediate purchaser and any intermediate seller or sellers to inform the user of the purposes for which the product may be fit and suitable and of the properties of the product, including the precautionary measures which must be taken in order to ensure the safety of the user and of other third persons and property.

No statement made herein shall be taken as an authorization or inducement to practice any patented invention without appropriate license.