

**1. Identification****Product identifier** American Safety Technologies AS-250 Hardener - Part B**Other means of identification****SKU#** AS211H**Recommended use** Not available.**Recommended restrictions** None known.**Manufacturer/Importer/Supplier/Distributor information****Manufacturer****Company name** ITW Engineered Polymers  
**Address** 130 Commerce Drive  
Montgomeryville, PA 18936  
United States**Telephone** Customer Service 215-855-8450**Website** www.itwengineeredpolymers.com**E-mail** orders.na@itwep.com**Contact person** EHS Department**Emergency phone number** CHEMTREC 800-424-9300  
International 703-527-3887**2. Hazard(s) identification****Physical hazards** Flammable liquids Category 3**Health hazards** Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2A

Sensitization, skin Category 1

Specific target organ toxicity, single exposure Category 3 narcotic effects

**Environmental hazards** Not classified.**OSHA defined hazards** Not classified.**Label elements****Signal word** Warning**Hazard statement** Flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause drowsiness or dizziness.**Precautionary statement****Prevention**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing mist or vapor. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/eye protection/face protection.

**Response**

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. In case of fire: Use appropriate media to extinguish.

**Storage**

Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.

**Disposal**

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

**Hazard(s) not otherwise classified (HNOC)** None known.

**Supplemental information** None.

### 3. Composition/information on ingredients

#### Mixtures

| Chemical name                            | Common name and synonyms | CAS number    | %        |
|--|--------------------------|---------------|----------|
| Polyamide                                |                          | Not available | 60 - 100 |
| 1-methoxy-2-propanol                     |                          | 107-98-2      | 10 - 30  |
| Other components below reportable levels |                          |               | 7 - 13   |

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### 4. First-aid measures

**Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.

**Skin contact** Remove contaminated clothing immediately and wash skin with soap and water. Take off immediately all contaminated clothing. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.

**Eye contact** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

**Ingestion** Rinse mouth. Get medical attention if symptoms occur.

**Most important symptoms/effects, acute and delayed** Dermatitis. Rash. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction.

**Indication of immediate medical attention and special treatment needed** Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

**General information** Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

### 5. Fire-fighting measures

**Suitable extinguishing media** Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical** Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

**Special protective equipment and precautions for firefighters** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Fire fighting equipment/instructions** In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

**Specific methods** Use standard firefighting procedures and consider the hazards of other involved materials.

**General fire hazards** Flammable liquid and vapor.

### 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures** Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of vapors or mists. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

**Methods and materials for containment and cleaning up**

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

**Environmental precautions****7. Handling and storage****Precautions for safe handling**

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

**Conditions for safe storage, including any incompatibilities**

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in original tightly closed container. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Refrigeration recommended. Store away from incompatible materials (see Section 10 of the SDS). Keep in an area equipped with sprinklers.

**8. Exposure controls/personal protection****Occupational exposure limits****US. ACGIH Threshold Limit Values**

| Components                          | Type | Value   |
|-------------------------------------|------|---------|
| 1-methoxy-2-propanol (CAS 107-98-2) | STEL | 100 ppm |
|                                     | TWA  | 50 ppm  |

**US. NIOSH: Pocket Guide to Chemical Hazards**

| Components                          | Type | Value                 |
|-------------------------------------|------|-----------------------|
| 1-methoxy-2-propanol (CAS 107-98-2) | STEL | 540 mg/m <sup>3</sup> |
|                                     | TWA  | 150 ppm               |
|                                     |      | 360 mg/m <sup>3</sup> |
|                                     |      | 100 ppm               |

**Biological limit values**

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

**Exposure guidelines****US - California OELs: Skin designation**

1-methoxy-2-propanol (CAS 107-98-2) Can be absorbed through the skin.

**Appropriate engineering controls**

Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin protection**

**Hand protection** Wear appropriate chemical resistant gloves.

**Other** Wear appropriate chemical resistant clothing.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

|                                       |   |
|---------------------------------------|---|
| <b>Thermal hazards</b>                | Wear appropriate thermal protective clothing, when necessary.   |
| <b>General hygiene considerations</b> | When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace. |

## 9. Physical and chemical properties

|   |                                  |
|---|----------------------------------|
| <b>Appearance</b>                                   | Liquid.                          |
| <b>Physical state</b>                               | Liquid.                          |
| <b>Form</b>   | Liquid.                          |
| <b>Color</b>  | Amber                            |
| <b>Odor</b>   | Amine-like.                      |
| <b>Odor threshold</b>                               | Not available.                   |
| <b>pH</b>   | Not available.                   |
| <b>Melting point/freezing point</b>                 | Not available.                   |
| <b>Initial boiling point and boiling range</b>      | > 240 °F (> 115.56 °C)           |
| <b>Flash point</b>                                  | > 131.0 °F (> 55.0 °C)           |
| <b>Evaporation rate</b>                             | 0.5 BuAc                         |
| <b>Flammability (solid, gas)</b>                    | Not available.                   |
| <b>Upper/lower flammability or explosive limits</b> |                                  |
| <b>Flammability limit - lower (%)</b>               | Not available.                   |
| <b>Flammability limit - upper (%)</b>               | Not available.                   |
| <b>Explosive limit - lower (%)</b>                  | Not available.                   |
| <b>Explosive limit - upper (%)</b>                  | Not available.                   |
| <b>Vapor pressure</b>                               | 8 mm Hg                          |
| <b>Vapor density</b>                                | 3.1                              |
| <b>Relative density</b>                             | Not available.                   |
| <b>Solubility(ies)</b>                              |                                  |
| <b>Solubility (water)</b>                           | Not available.                   |
| <b>Partition coefficient (n-octanol/water)</b>      | Not available.                   |
| <b>Auto-ignition temperature</b>                    | Not available.                   |
| <b>Decomposition temperature</b>                    | Not available.                   |
| <b>Viscosity</b>                                    | Not available.                   |
| <b>Other information</b>                            |                                  |
| <b>Density</b>                                      | 0.98 g/cm <sup>3</sup> estimated |
| <b>Flammability class</b>                           | Combustible II estimated         |
| <b>Specific gravity</b>                             | 0.98                             |

## 10. Stability and reactivity

|   |  |
|---|--|
| <b>Reactivity</b>                         | The product is stable and non-reactive under normal conditions of use, storage and transport.  |
| <b>Chemical stability</b>                 | Material is stable under normal conditions.  |
| <b>Possibility of hazardous reactions</b> | Hazardous polymerization does not occur.   |
| <b>Conditions to avoid</b>                | Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials. |
| <b>Incompatible materials</b>             | Strong acids.  |
| <b>Hazardous decomposition products</b>   | No hazardous decomposition products are known.   |

## 11. Toxicological information

### Information on likely routes of exposure

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | Prolonged inhalation may be harmful. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. |
| <b>Skin contact</b> | Causes skin irritation. May cause an allergic skin reaction.  |
| <b>Eye contact</b>  | Causes serious eye irritation.  |
| <b>Ingestion</b>    | Expected to be a low ingestion hazard.  |

**Symptoms related to the physical, chemical and toxicological characteristics** Dermatitis. Rash. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

### Information on toxicological effects

**Acute toxicity** Narcotic effects. May cause an allergic skin reaction.

**Skin corrosion/irritation** Causes skin irritation.

**Serious eye damage/eye irritation** Causes serious eye irritation.

### Respiratory or skin sensitization

**Respiratory sensitization** Not available.

**Skin sensitization** May cause an allergic skin reaction.

**Germ cell mutagenicity** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

### Carcinogenicity

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

**Reproductive toxicity** This product is not expected to cause reproductive or developmental effects.

**Specific target organ toxicity - single exposure** May cause drowsiness or dizziness.

**Specific target organ toxicity - repeated exposure** Not classified.

**Aspiration hazard** Not available.

**Chronic effects** Prolonged inhalation may be harmful.

## 12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Persistence and degradability** Not available.

**Bioaccumulative potential** Not available.

**Mobility in soil** No data available.

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

## 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Hazardous waste code** The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Waste from residues / unused products** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## 14. Transport information

### DOT

|                              |   |
|------------------------------|---|
| UN number                    | UN1263  |
| UN proper shipping name      | Paint   |
| Transport hazard class(es)   |   |
| Class                        | 3   |
| Subsidiary risk              | -   |
| Label(s)                     | 3   |
| Packing group                | III   |
| Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. |
| Special provisions           | B1, B52, IB3, T2, TP1, TP29   |
| Packaging exceptions         | 150   |
| Packaging non bulk           | 173   |
| Packaging bulk               | 242   |

### IATA

|                              |   |
|------------------------------|---|
| UN number                    | UN1263  |
| UN proper shipping name      | Paint   |
| Transport hazard class(es)   |   |
| Class                        | 3   |
| Subsidiary risk              | -   |
| Packing group                | III   |
| Environmental hazards        | No.   |
| ERG Code                     | 3L  |
| Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. |
| Other information            |   |
| Passenger and cargo aircraft | Allowed.  |
| Cargo aircraft only          | Allowed.  |

### IMDG

|                              |   |
|------------------------------|---|
| UN number                    | UN1263  |
| UN proper shipping name      | Paint   |
| Transport hazard class(es)   |   |
| Class                        | 3   |
| Subsidiary risk              | -   |
| Packing group                | III   |
| Environmental hazards        |   |
| Marine pollutant             | No.   |
| EmS                          | F-E, S-E  |
| Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. |

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code  
Not available.

### DOT





## 15. Regulatory information

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.  
One or more components are not listed on TSCA.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

1-methoxy-2-propanol (CAS 107-98-2) Listed.

**SARA 304 Emergency release notification**

Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories** Immediate Hazard - Yes  
Delayed Hazard - No  
Fire Hazard - Yes  
Pressure Hazard - No  
Reactivity Hazard - No

**SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312 Hazardous chemical** No

**SARA 313 (TRI reporting)**

Not regulated.

**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.

**US state regulations**

**US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)**

Not listed.

**US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))**

1-methoxy-2-propanol (CAS 107-98-2)

**US. Massachusetts RTK - Substance List**

1-methoxy-2-propanol (CAS 107-98-2)

**US. New Jersey Worker and Community Right-to-Know Act**

1-methoxy-2-propanol (CAS 107-98-2)

**US. Pennsylvania Worker and Community Right-to-Know Law**

1-methoxy-2-propanol (CAS 107-98-2)

**US. Rhode Island RTK**

Not regulated.

## US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

### International Inventories

| Country(s) or region        | Inventory name   | On inventory (yes/no)* |
|-----------------------------|--|------------------------|
| Australia                   | Australian Inventory of Chemical Substances (AICS)                     | No                     |
| Canada                      | Domestic Substances List (DSL)   | Yes                    |
| Canada                      | Non-Domestic Substances List (NDSL)                                    | No                     |
| China                       | Inventory of Existing Chemical Substances in China (IECSC)             | No                     |
| Europe                      | European Inventory of Existing Commercial Chemical Substances (EINECS) | No                     |
| Europe                      | European List of Notified Chemical Substances (ELINCS)                 | No                     |
| Japan                       | Inventory of Existing and New Chemical Substances (ENCS)               | No                     |
| Korea                       | Existing Chemicals List (ECL)  | No                     |
| New Zealand                 | New Zealand Inventory  | No                     |
| Philippines                 | Philippine Inventory of Chemicals and Chemical Substances (PICCS)      | No                     |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory                          | No                     |

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

|                             |  |
|-----------------------------|--|
| <b>Issue date</b>           | 04-06-2015   |
| <b>Version #</b>            | 01   |
| <b>HMIS® ratings</b>        | Health: 2<br>Flammability: 2<br>Physical hazard: 0<br>Personal protection: X   |
| <b>NFPA ratings</b>         | Health: 2<br>Flammability: 2<br>Instability: 0   |
| <b>Disclaimer</b>           | The information in the sheet was written based on the best knowledge and experience currently available.   |
| <b>Revision Information</b> | Product and Company Identification: Product and Company Identification<br>Physical & Chemical Properties: Multiple Properties<br>Transport Information: Material Transportation Information<br>GHS: Classification |