SECTION 1: IDENTIFICATION

1.1 PRODUCT IDENTIFIER
Product Name: REGULAR URETHANE BLACK BASECOAT VOC COMPLIANT – POLYOL COMPONENT A
Product Code: UB6421PC, UB6421PC-1, UB6421PC-5

1.2 RECOMMENDED USE OF CHEMICAL AND RESTRICTIONS ON USE
Product Use: Architectural Coating and Waterproofing
Use this product in accordance with all local, regional, national and international regulations.

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET
Name/Address: Firestone Building Products
200 4th Avenue South
Nashville, TN 37201
Gaco is a Firestone Building Products brand
Telephone Number: 800-331-0196 / International: 001-800-331-0196
Email: sds@gaco.com
Website: www.gaco.com

1.4 EMERGENCY TELEPHONE NUMBER
For Chemical Emergency
Spill, Leak, Fire, Exposure, or Incident
Within USA and Canada: 1-800-424-9300
Outside USA and Canada: +1-703-527-3887 (collect calls accepted)

SECTION 2: HAZARD(S) IDENTIFICATION

2.1 CLASSIFICATION OF THE CHEMICAL
Hazard class:

<table>
<thead>
<tr>
<th>HAZARD CLASSIFICATION</th>
<th>CATEGORY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Corrosion/Irritation</td>
<td>2</td>
</tr>
<tr>
<td>Eye Damage/Irritation</td>
<td>2A</td>
</tr>
<tr>
<td>Sensitization - Respiratory</td>
<td>1</td>
</tr>
<tr>
<td>Sensitization - Skin</td>
<td>1B</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>2</td>
</tr>
<tr>
<td>Flammable Liquids</td>
<td>2</td>
</tr>
</tbody>
</table>

2.2 LABEL ELEMENTS
Hazard pictogram: GHS02, GHS07, GHS08
Signal word: DANGER

Hazard statement: Highly flammable liquid and vapor
Causes skin irritation
May cause an allergic skin reaction
Causes serious eye irritation
May cause allergy or asthma symptoms or breathing difficulties if inhaled
Suspected of causing cancer <oral>

Prevention: Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat, hot surfaces/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 dust/fume/gas/mist/vapors/spray.
Wash thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
In case of inadequate ventilation, wear respiratory protection.

Response: Specific treatment (see Section 8 on this label).
If on skin (or hair): Remove/Take off immediately all contaminated clothing.
Rinse skin with water/shower.
Wash contaminated clothing before reuse.
If skin irritation or a rash occurs: Get medical advice/attention.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
If experiencing respiratory symptoms: Call a poison/doctor.
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.
In case of fire: Use water fog, foam, dry chemical powder, carbon dioxide (CO2) to extinguish.

Storage: Store in a well-ventilated place. Keep cool. Store locked up.

Disposal: Dispose of contents and container in accordance with all local, regional, national and international regulations.

2.3 ADDITIONAL INFORMATION

Main symptoms: Prolonged exposure may cause chronic effects. Suspected of causing cancer.
Difficulty breathing. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause allergic skin reaction. Dermatitis. Rash.
Causes skin irritation. May cause redness and pain. Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Animal tests and other research indicate that skin contact with MDI can play a role in causing isocyanate sensitization and respiratory reaction. Lung damage and respiratory sensitization may be permanent.

Hazards not otherwise specified: HNOC - Toxic to aquatic life
HNOC - Toxic to aquatic life with long lasting effects
3.1 Mixtures

<table>
<thead>
<tr>
<th>Material</th>
<th>CAS No.</th>
<th>Weight %*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nepheline syenite - various grades</td>
<td>37244-86-5</td>
<td>10-30%</td>
</tr>
<tr>
<td>4-Chloro-α,α,α-trifluorotoluene</td>
<td>98-56-6</td>
<td>10-30%</td>
</tr>
<tr>
<td>Isocyanate Prepolymer</td>
<td>--</td>
<td>7-13%</td>
</tr>
<tr>
<td>Zinc borate</td>
<td>138265-88-0</td>
<td>3-7%</td>
</tr>
<tr>
<td>Acetone</td>
<td>67-64-1</td>
<td>1-5%</td>
</tr>
<tr>
<td>cyclohex-1,4-ylene dimethanol</td>
<td>105-08-8</td>
<td>1-5%</td>
</tr>
<tr>
<td>Carbon Black</td>
<td>1333-86-4</td>
<td>1-5%</td>
</tr>
<tr>
<td>2,2-Bis(bromomethyl)propane-1,3-diol</td>
<td>3296-90-0</td>
<td>1-5%</td>
</tr>
<tr>
<td>Toluene-diisocyanate, mixture of toluene-2,4-di-isocyanate and toluene-2,6-di-isocyanate</td>
<td>26471-62-5</td>
<td>0.1-1.0%</td>
</tr>
<tr>
<td>4-methyl-m-phenylene diisocyanate</td>
<td>584-84-9</td>
<td>0.1-1.0%</td>
</tr>
<tr>
<td>Other components below reportable levels</td>
<td>--</td>
<td>10-30%</td>
</tr>
</tbody>
</table>

*The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

4.1 Description of the First Aid Measures

**General information:** If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

**Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician or poison center immediately.

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

**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.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

Prolonged exposure may cause chronic effects.

* Suspected of causing cancer.

Difficulty breathing. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

* May cause allergic skin reaction. Dermatitis. Rash.

Causes skin irritation. May cause redness and pain.

Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
Skin contact with MDI can cause discoloration. Animal tests and other research indicate that skin contact with MDI can play a role in causing isocyanate sensitization and respiratory reaction. This data reinforces the need to prevent direct skin contact with isocyanates.

Diisocyanate vapors or mist at concentrations above the TLV or PEL can irritate (burning sensation) the mucous membranes in the respiratory tract (nose, throat, lungs) causing runny nose, sore throat, coughing, chest discomfort, shortness of breath, and reduced lung function (breathing obstruction). Persons with a preexisting, nonspecific bronchial hyperreactivity can respond to concentrations below the TLV or PEL with similar symptoms as well as asthma attack or asthma-like symptoms. Exposure well above the TLV or PEL may lead to bronchitis, bronchial spasm and pulmonary edema (fluid in lungs). Chemical or hypersensitivity pneumonitis, with flu-like symptoms (e.g. fever, chills) has also been reported. These symptoms can be delayed up to several hours after exposure. These effects are usually reversible.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENTS NEEDED

Note to physicians:
Treat symptomatically. Symptoms may be delayed. Thermal burns: Flush with water immediately. While flushing, remove clothes that do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital.

Eyes: Stain for evidence of corneal injury. If cornea is burned, instill antibiotic/steroid preparation as needed. Workplace vapors could produce reversible corneal epithelial edema impairing vision.

Skin: This compound is a skin sensitizer. Treat symptomatically as for contact dermatitis or thermal burn.

Ingestion: Treat symptomatically. There is no specific antidote. Inducing vomiting is contraindicated because of the irritating nature of the compound.

Inhalation: Treatment is essentially symptomatic. An individual having a dermal or pulmonary sensitization reaction to this material should be removed from further exposure to any diisocyanate.

Specific treatments: In case of accident or if you feel unwell, seek medical advice (show the label or SDS where possible).

SECTION 5: FIRE-FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

General hazards: Highly flammable liquid and vapor.

Suitable extinguishing media: Foam, CO2 or dry powder. Water spray may be used if no other available and then in copious quantities. Reaction between water and hot isocyanate may be vigorous. Prevent washings from entering water courses, keep fire exposed containers cool by spraying with water.

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

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Specific hazards: 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.

Products of combustion: May include, and are not limited to: carbon oxides (CO, CO2) nitrogen oxides (NO, NO2 etc.) hydrocarbons, isocyanate vapors, and hydrogen.
cyanide.

5.3 Special protective equipment and precautions for fire-fighters (PPE)

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

Special fire-fighting procedures: In case of fire and/or explosion, do not breathe fumes. Keep upwind of fire. Move containers from fire area if you can do it without risk.

During a fire, isocyanate vapors and other irritating, highly toxic gases may be generated by thermal decomposition or combustion. Exposure to heated diisocyanate can be extremely dangerous.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES
Immediately contact emergency personnel. Evacuate the area. Keep upwind to avoid inhalation of vapors. Clean-up should only be performed by trained personnel. People dealing with major spillages should wear full protective clothing including respiratory protection. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use suitable protective equipment (section 8). Keep unauthorized persons away.
Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. 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.

6.2 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING - UP

Methods for containment:
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. Use appropriate Personal Protective Equipment (PPE).

Methods for 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. For waste disposal, see Section 13 of the SDS.

If the product is in its solid form: Spilled MDI flakes should be picked up carefully. The area should be vacuum cleaned to remove remaining dust particles completely.
If the product is in its liquid form: Absorb spillages onto sand, earth or any suitable adsorbent material. Leave to react for at least 30 minutes. Do NOT absorb onto sawdust or other combustible materials. Shovel into open-top drums for further decontamination. Wash the spillage area with water. Test atmosphere for MDI vapour. Neutralise small spillages with decontaminant. Remove and dispose of residues. The compositions of liquid decontaminants are : (percentages by weight or volume):
Decontaminant 1 : *- sodium carbonate : 5 - 10 % *- liquid detergent : 0.2 - 2 % *- water : to make up to 100 %
Decontaminant 2 : *- concentrated ammonia solution : 3 - 8 % *- liquid detergent : 0.2 - 2 % *- water : to make up to 100 %
Decontaminant 1 reacts slower with diisocyanates but is more...
environmentally friendly than decontaminant 2.
Decontaminant 2 contains ammonia. Ammonia presents health hazards.
(See supplier safety information.)

Large spills: Stop the flow of material, if this is without risk. Dike the spilled material,
where this is possible. Use a non-combustible material like vermiculite, sand
or earth to soak up the product and place into a container for later disposal.
Following product recovery, flush area with water.

Small spills: 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.

Environmental precautions: Avoid discharge into drains, water courses or onto the ground.

SECTION 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Precautions for Safe handling: Vapors may form explosive mixtures with air. Do not handle or store near an
open flame, heat or other sources of ignition. 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.

Do not breath vapors, mists, or dusts. Use adequate ventilation to keep
airborne isocyanate levels below the exposure limits. Wear respiratory
protection if material is heated, sprayed, used in confined space, or if the
exposure limit is exceeded. Warning properties (irritation of the eyes, nose
and throat or odor) are NOT adequate to prevent overexposure from
inhalation. This material can produce asthmatic sensitization upon either
single inhalation exposure to a relatively high concentration or upon repeated
inhalation exposures to lower concentrations. Individuals with lung or
breathing problems or prior allergic reactions to isocyanates must be exposed
to vapor or spray mist. Avoid contact with skin and eyes. Wear appropriate eye
and skin protection. Wash thoroughly after handling. Do NOT breathe smoke
and gases created by over heating or burning this material. Decomposition
products can be highly toxic and irritating. Store in tightly closed containers to
prevent moisture contamination. Do NOT reseal if contamination is suspected.

General hygiene advice: Ensure that medical personnel are aware of the materials(s) involved, and
take precautions to protect themselves.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

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

Minimum: 50°F (10°C)
Maximum: 86°F (30°C)

Specific use: Architectural Coating and Waterproofing

Technical measures: Vapors may form explosive mixtures with air. All equipment used when
handling the product must be grounded. Use non-sparking tools and
explosion-proof equipment.

Incompatible materials: Copper, copper alloy, galvanized surfaces, water, amines, strong bases,
alcohols. Moisture sensitive.

Safe packaging material: Store away from incompatible materials. Store in tightly closed containers to
Precautions:

- 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.

Safe handling advice:

- 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. Use personal protection recommended in Section 8 of the SDS.

Suitable storage conditions:

- Keep away from heat, sparks and open flame. Keep container tightly closed. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Keep in an area equipped with sprinklers.
- Store away from incompatible materials. Store in tightly closed containers to prevent moisture contamination. Do NOT reseal if contamination is suspected.

Handling-technical measures:

- Use non-sparking tools and explosion-proof equipment. All equipment used when handling this product must be grounded.

Local and general ventilation:

- Provide adequate ventilation.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

Control parameters: Follow standard monitoring procedures.

Exposure limits:

**Nepheline syenite - various grades**

- OSHA: PEL: 5 mg/m³ TQA resp
- NIOSH: None

**4-Chloro-α,α,α-trifluorotoluene**

- OSHA: PEL 2.5 mg.m³ (dust)
- NIOSH: None

**Zinc borate**

- OSHA: PEL: 10 mg/m³
- PEL (total dust): 15 mg/m³
- PEL (Respirable dust): 5 mg/m³
- ACGIH: TLV: 10 mg/m³ Cal

**Acetone**

- OSHA: PEL-TWA ppm: 1000
- PEL-TWA mg/m³: 2400
- NIOSH: REL-TWA ppm: 250
- REL-TWA mg/m³: 590
- IDLH ppm: 2500
- IDLH Notes: 10% of LEL

**Carbon Black**

- OSHA: PEL: TWA 3.5 mg/m³
NIOSH REL: TWA 3.5 mg/m3 Ca
TWA = 0.1 mg PAHs/m3 [Carbon black in presence of polycyclic aromatic hydrocarbons (PAHs)] See Appendix A See Appendix C
ACGIH TLV: TWA 3.5 mg/m3
End-user of these products are unlikely to be exposed to airborne carbon black particles, which are bound within the product matrix.

8.2 EXPOSURE CONTROLS

Engineering measures to reduce exposure:

Explosion-proof general and local exhaust ventilation. Eyewash facilities and emergency shower are highly recommended to be available when handling this product.

Provide sufficient air exchange and/or exhaust in work rooms. In all workplaces or parts of the plant where high concentrations of isocyanate aerosols and/or vapors may be generated (e.g. during pressure release, mold venting or when cleaning mixing heads with an air blast), appropriately located exhaust ventilation must be provided in order to prevent occupational exposure limits from being exceeded. The air should be drawn away from the personnel handling the product. The efficiency of the ventilation system must be monitored regularly because of the possibility of blockage. Atmospheric concentrations should be minimized and kept as low as reasonably practicable below the occupational exposure limit.

8.3 INDIVIDUAL PROTECTIVE MEASURES

General:

Eye wash fountain and emergency showers are recommended. Use personal protective equipment as required.

Animal tests and other research indicate that skin contact with MDI can play a role in causing isocyanate sensitization and respiratory reaction. Lung damage and respiratory sensitization may be permanent.

All applicants who are assigned to an isocyanate work area should undergo a pre-placement medical evaluation. A history or eczema or respiratory allergies such as hay fever, are possible reasons for medical exclusion from isocyanate areas. Applicants who have a history of adult asthma should be restricted from work with isocyanates. A comprehensive annual medical surveillance program should be instituted for all employees who are potentially exposed to diisocyanates. Once a worker has been diagnosed as sensitized to any isocyanate, no further exposure can be permitted.

Eye protection:

Wear safety glasses with side shields (or goggles).

Hand protection:

Wear appropriate chemical resistant gloves. Nitrile rubber showed excellent resistance. Butyl rubber, neoprene and PVC are also effective.

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Airborne MDI concentrations greater than the ACGIH TLV-TWA (TLV) or OSHA PEL-C- (PEL) can occur in inadequately ventilated environments when MDI is sprayed, aerosolized, or heated. In such cases, respiratory protection must be worn. The type of respiratory protection selected must comply with the requirements set forth in OSHA’s Respiratory Protection Standard (29 CFR 1910.134). The type of respiratory protection available includes (1) an atmosphere-supplying respirator such as a self-contained breathing apparatus (SCBA) or a supplied air respirator (SAR) in the positive pressure or continuous flow mode, or (2) an air purifying respirator (APR). If an APR is selected then (a) the
A cartridge must be equipped with an end-of-service life indicator (ESLI) certified by NIOSH, or (b) a change out schedule, based on objective information or data that will ensure that the cartridges are changed out before the end of their service life, must be developed and implemented. The basis for the change out schedule must be described in the written respirator program. Further, if an APR is selected, the airborne disocyanate concentration must be no greater than 10 times the TLV or PEL. The recommended APR cartridge is an organic vapor/particulate filter combination cartridge (OV/P100).

**Skin and body protection:**
Wear appropriate chemical resistant clothing. Animal tests and other research indicate that skin contact with MDI can play a role in causing isocyanate sensitization and respiratory reaction. This data reinforces the need to prevent direct skin contact with isocyanates.

**Hygiene measures:**
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.

**Control parameters:**
Follow standard monitoring procedures. Local exhaust should be used to maintain levels below the TLV whenever MDI is heated, sprayed, or aerosolized. Standard reference sources regarding industrial ventilation (e.g. ACGIH Industrial Ventilation Manual) should be consulted for guidance about adequate ventilation. To ensure that published exposure limits have not been exceeded, monitoring for airborne diisocyanate should become part of the overall employee exposure characterization program. NIOSH, OSHA, and others have developed sampling and analytical methods. These are available through various suppliers. Gaco Western does not supply these sampling methods directly.

**Thermal hazards:**
Wear appropriate thermal protective clothing, when necessary.

**Environmental exposure controls:**
Environmental manager must be informed of all major releases.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Appearance:</td>
<td>Viscous black liquid</td>
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<tr>
<td>Color:</td>
<td>BLACK</td>
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<tr>
<td>Form:</td>
<td>Liquid</td>
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<tr>
<td>Odor:</td>
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<td>Odor Threshold:</td>
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<td>Physical State:</td>
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<td>Melting Point/Freezing Point:</td>
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<td>Initial Boiling Point and Boiling Range:</td>
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<td>Flash Point:</td>
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<td>Evaporation Rate:</td>
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<td>Flammability (solid, gaseous):</td>
<td>Highly flammable liquid and vapor.</td>
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<td>Lower Flammability/Explosive Limit:</td>
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<td>Upper Flammability/Explosive Limit:</td>
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<td>Vapor Pressure (mm Hg @38°C):</td>
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<td>Vapor Density:</td>
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<td>Density (lb/gal):</td>
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<tr>
<td>Relative Density/Specific Gravity:</td>
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</table>
**SECTION 10: STABILITY AND REACTIVITY**

**10.1 REACTIVITY**
The product is stable and non-reactive under normal conditions of use, storage and transport.

**10.2 CHEMICAL STABILITY**
Chemical stability: Material is stable under normal conditions.
Materials to avoid: Copper, copper alloy, galvanized surfaces, water, amines, strong bases, alcohols. Moisture sensitive.

**10.3 POSSIBILITY OF HAZARDOUS REACTIONS**
Hazardous reactions: Moisture sensitive. Contact with moisture, other materials that react with isocyanates, or temperatures above 350°F (177°C), may cause polymerizations.

**10.4 CONDITIONS TO AVOID**
Avoid heat, sparks, open flames and other ignition sources. Contact with incompatible materials. Temperatures above 350°F (177°C).

**10.5 INCOMPATIBLE MATERIALS**
Copper, copper alloy, galvanized surfaces, water, amines, strong bases, alcohols. Moisture sensitive.

**10.6 HAZARDOUS DECOMPOSITION PRODUCTS**
Hazardous decomposition products: By fire and high heat: Carbon dioxide (CO2), Carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke, isocyanate, isocyanic acid, other undetermined compounds.

Hazardous polymerization: Moisture sensitive. Contact with moisture, other materials that react with isocyanates, or temperatures above 350°F (177°C), may cause polymerizations.

Other information: Not applicable.

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**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1 INFORMATION ON TOXICOLOGICAL EFFECTS**

Acute toxicity: Difficulty breathing. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Dermatitis. Rash. Causes skin irritation. May cause redness and pain. Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
Likely routes of exposure:

Skin contact. Eye contact. Inhalation.

**Eye:**
Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

**Skin:**
May cause allergic skin reaction. Dermatitis. Rash. Causes skin irritation. May cause redness and pain.

Contact with MDI can cause discoloration. Animal tests and other research indicate that skin contact with MDI can play a role in causing isocyanate sensitization and respiratory reaction. This data reinforces the need to prevent direct skin contact with isocyanates.

**Ingestion:**
Not an expected route of exposure. Expected to be a low ingestion hazard.

**Inhalation:**
Difficulty breathing. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Diisocyanate vapors or mist at concentrations above the TLV or PEL can irritate (burning sensation) the mucous membranes in the respiratory tract (nose, throat, lungs) causing runny nose, sore throat, coughing, chest discomfort, shortness of breath, and reduced lung function (breathing obstruction). Persons with a preexisting, nonspecific bronchial hyperreactivity can respond to concentrations below the TLV or PEL with similar symptoms as well as asthma attack or asthma-like symptoms. Exposure well above the TLV or PEL may lead to bronchitis, bronchial spasm and pulmonary edema (fluid in lungs). Chemical or hypersensitivity pneumonitis, with flu-like symptoms (e.g. fever, chills), has also been reported. These symptoms can be delayed up to several hours after exposure. These effects are usually reversible.

**LD50/LC50 values relevant to this classification:**

**4-Chloro-α,α,α-trifluorotoluene**
- Oral rat LD50 5546 mg/kg bw
- Oral rat LD50 7270 mg/kg bw
- Inhal rat LC50 32.03 mg/L air 4hr
- Derm rabbit LD50 >5000 mg/kg bw
- Derm rabbit LD50 >2000 mg/kg bw

**Acetone**
- Oral rat LD50 5800 mg/kg bw
- Oral rat LD50 7190 mg/kg bw
- Inhal rat LC50 132 mg/L air 3hr
- Inhal rat LC50 76.0 mg/L air 4hr
- Derm guinea pig LD50 7426 mg/kg bw
- Derm rabbit LD50 15,800 mg/kg bw

**cyclohex-1,4-ylenedimethanol**
- Oral rat LD50 >2000 mg/kg bw
- Oral rat LD50 3200 < 6400 mg/kg bw
- Oral mouse LD50 1600 < 3200 mg/kg bw
- Oral rat LD50 1600 < 3200 mg/kg bw
- Oral guinea pig LD50 800 < 1600 mg/kg bw
- Oral rat LD50 800 < 1600 mg/kg bw
- Inhal rat LC50 1 ≤ 3 mg/L air 6hr
Inhal rat LC50 > 1.25 mg/L air 6hr
Derm guinea pig LDLo >1000 mg/kg bw
Derm guinea pig LDLo >20 mg/kg bw

Carbon Black
Oral rat LD50 >8000 mg/kg bw
Oral rat LD50 >10000 mg/kg bw
Oral rat LD50 >10000 mg/kg bw
Inhal rat LC50 > 4.6 mg/m³ air

2,2-Bis(bromomethyl)propane-1,3-diol
Oral rat LD50 >2000 mg/kg bw
Oral rat LD50 1691-2120 mg/kg bw
Derm rabbit LD50 > 5000 mg/kg bw

Calculated overall chemical acute toxicity values for this formulation:

<table>
<thead>
<tr>
<th>Calculated overall Chemical Acute Toxicity Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 (inhalation)</td>
</tr>
<tr>
<td>&gt;5 mg/kg (dust and mist)</td>
</tr>
</tbody>
</table>

11.2 DELAYED, IMMEDIATE, AND CHRONIC EFFECTS OF SHORT- AND LONG-TERM EXPOSURE

Skin corrosion/irritation: Skin irritation. May cause redness and pain. May cause allergic skin reaction. Dermatitis. Rash. Contact with MDI can cause discoloration. Animal tests and other research indicate that skin contact with MDI can play a role in causing isocyanate sensitization and respiratory reaction. This data reinforces the need to prevent direct skin contact with isocyanates.

Serious eye damage/irritation: Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Respiratory sensitization: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin sensitization: May cause allergic skin reaction. Dermatitis. Rash.

Symptoms and target organs: Prolonged exposure may cause chronic effects. Suspected of causing cancer. Difficulty breathing. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause allergic skin reaction. Dermatitis. Rash. Causes skin irritation. May cause redness and pain. Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Chronic health effects: Prolonged exposure may cause chronic effects. Suspected of causing cancer.

Carcinogenicity: Suspected of causing cancer.

Material | OSHA(O) | ACGIH(G) | NTP(N) | IARC(I)
--- | --- | --- | --- | ---
Isocyanate Prepolymer | CA | Not listed | R | 2B (gas only)
Carbon Black | Not listed | A3 | Not listed | 2B
2,2-Bis(bromomethyl)propane-1,3-diol | Not listed | Not listed | R | 2B
Toluene-diisocyanate, mixture of toluene-2,4-diisocyanate and toluene-2,6-diisocyanate | CA | Not listed | R | 2B (gas only)
4-methyl-m-phenylene diisocyanate | CA | Not listed | R | 2B (gas only)

SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

OSHA (O) =Occupational Safety and Health Administration
CA/Yes = Expected to be a carcinogen
not listed = Not expected to be carcinogenic
ACGIH (G) = American Conference of Governmental Industrial Hygienists
A1 =Confirmed human carcinogen
A2 =Suspected human carcinogen
A3 =Animal carcinogen
A4 =Not classifiable as a human carcinogen
A5 =Not suspected as a human carcinogen
NTP (N) =National Toxicology Program
R =Reasonably anticipated to be a carcinogen
not listed = Not expected to be carcinogenic
IARC (I) = International Agency for Research on Cancer
1 =Carcinogenic to humans
2A =probably carcinogenic to humans
2B =Possibly carcinogenic to humans
3 =Not classifiable as to its carcinogenicity to humans
4 =Probably not carcinogenic to humans

Trade Name: UB6421PC – REGULAR URETHANE BLACK BASECOAT VOC COMPLIANT - POLYOL COMPONENT A
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not listed = Not expected to be carcinogenic

Mutagenicity: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Reproductive Toxicity: This product is not expected to cause reproductive or developmental effects.

Specific Target Organ Toxicity (STOT):
- Single Exposure: May cause respiratory irritation.
- Repeated Exposure: May cause damage to organs (lungs) through prolonged or repeated (inhalation) exposure.

Aspiration Toxicity: Based on available data, this product is not expected to cause aspiration toxicity.

Other Information: Not applicable.

SECTION 12: ECOLOGICAL INFORMATION

12.1 ECOTOXICITY
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.

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

Chronic toxicity: The product is not classified as having a chronic environmental hazard. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Environmental effects: 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.

12.2 PERSISTENCE AND DEGRADABILITY
Persistence/biodegradability: The product contains substances which are not expected to be readily biodegradable.

12.3 BIOACCUMULATIVE POTENTIAL
Bioaccumulation: No data available.

12.4 MOBILITY
Mobility: No data available.
Mobility in soil: No data available.
Mobility in non-soil: No data available.

12.5 OTHER ADVERSE EFFECTS
Ozone layer: No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS
Disposal method: This material must be disposed of in accordance with all local, state, provincial, and federal regulations.

Contaminated packaging: Since emptied containers may retain product residue, follow label warnings even after container is emptied. Dispose of contents and container in accordance with all local, regional, national and international regulations.

EU codes: The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Residual waste: 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).
Disposal instructions: Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents and container in accordance with all local, regional, national and international regulations.

Waste codes: D001: Waste Flammable material with a flash point <140°F (<60°C) The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Other disposal recommendations: None

SECTION 14: TRANSPORT INFORMATION

DOT Non-Bulk
UN: UN1263
Proper shipping name: PAINT
Hazard class: 3
Packing group: PG II

DOT Bulk
UN: UN1263
Proper shipping name: PAINT
Hazard class: 3
Packing group: PG II

IMDG
UN: UN1263
Proper shipping name: PAINT
Hazard class: 3
Packing group: PG II

ICAO/IATA
UN: UN1263
Proper shipping name: PAINT
Hazard class: 3
Packing group: PG II

Reportable quantity: Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material

SECTION 15: REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/ LEGISLATIONS SPECIFIC FOR THE CHEMICAL

US Federal Regulations:

U.S. OSHA (Occupational Safety and Health Administration) Specifically Regulated Substances (29 CFR 1910.1001-1050)
The following components of this product are found at concentrations greater than or equal to 0.1% and are listed as U.S. OSHA Specifically Regulated Substances.

<table>
<thead>
<tr>
<th>Material</th>
<th>CAS No.</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isocyanate Prepolymer</td>
<td>--</td>
<td>7-13%</td>
</tr>
<tr>
<td>Toluene-diisocyanate, mixture of toluene-2,4-di-isocyanate and toluene-2,6-di-isocyanate</td>
<td>26471-62-5</td>
<td>0.1-1.0%</td>
</tr>
<tr>
<td>4-methyl-m-phenylene diisocyanate</td>
<td>584-84-9</td>
<td>0.1-1.0%</td>
</tr>
</tbody>
</table>
SARA/CERCLA reporting requirements:

The following components of this product are found at concentrations greater than or equal to 0.1% and are subject to SARA/CERCLA reporting requirements.

<table>
<thead>
<tr>
<th>Material</th>
<th>SARA 302 (EHSs) TQ</th>
<th>SARA 304 EHSs RQ</th>
<th>CERCLA RQ</th>
<th>SARA 313 listed</th>
<th>RCRA CODE</th>
<th>CAA 112(r) TQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>Not listed</td>
<td>Not listed</td>
<td>5,000</td>
<td>Not listed</td>
<td>U002</td>
<td>Not listed</td>
</tr>
<tr>
<td>2,2-Bis(bromomethyl)propane-1,3-diol</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>313</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
<tr>
<td>Toluene-diisocyanate, mixture of toluene-2,4-di-isocyanate and toluene-2,6-di-isocyanate</td>
<td>Not listed</td>
<td>Not listed</td>
<td>100</td>
<td>X</td>
<td>U223</td>
<td>10,000</td>
</tr>
<tr>
<td>4-methyl-m-phenylene disocyanate</td>
<td>500</td>
<td>100</td>
<td>100</td>
<td>X</td>
<td>Not listed</td>
<td>10,000</td>
</tr>
</tbody>
</table>

State Right-to-Know Regulations

The following components of this product are found at concentrations greater than or equal to 0.1%, subject to state Right-to-Know reporting requirements; or are found at any concentration and are listed under California Proposition 65.

<table>
<thead>
<tr>
<th>Material</th>
<th>California Proposition 65</th>
<th>Massachusetts Right-to-Know</th>
<th>Minnesota Employee Right-to-Know</th>
<th>New Jersey Environmental Hazard Right-to-Know</th>
<th>New Jersey Right-to-Know Substance</th>
<th>Pennsylvania Right-to-Know</th>
<th>Rhode Island Right-to-Know</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-Chloro-a,a,a-trifluorotoluene</td>
<td>Not listed</td>
<td>Listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
<tr>
<td>Acetone</td>
<td>Not listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Listed</td>
</tr>
<tr>
<td>Carbon Black</td>
<td>Cancer</td>
<td>Listed</td>
<td>Listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Listed</td>
</tr>
<tr>
<td>2,2-Bis(bromomethyl)propane-1,3-diol</td>
<td>Cancer</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Listed</td>
<td>Not listed</td>
<td>Listed</td>
</tr>
<tr>
<td>Paraffin waxes and Hydrocarbon waxes, chloro</td>
<td>Not listed</td>
<td>Listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
<tr>
<td>Toluene-diisocyanate, mixture of toluene-2,4-di-isocyanate and toluene-2,6-di-isocyanate</td>
<td>Cancer</td>
<td>Listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
</tr>
<tr>
<td>4-methyl-m-phenylene disocyanate</td>
<td>Not listed</td>
<td>Listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
</tr>
<tr>
<td>Phenol, 2,6-bis(1,1-dimethyl)-4-methyl</td>
<td>Not listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Not listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Not listed</td>
</tr>
<tr>
<td>Soybean oil, epoxidized</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Not listed</td>
</tr>
<tr>
<td>Toluene</td>
<td>Dev</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
</tr>
</tbody>
</table>

California:

Proposition 65:

WARNING: This product can expose you Carbon Black, 2,2-Bis(bromomethyl)propane-1,3-diol, and Toluene-diisocyanate, mixture of toluene-2,4-di-isocyanate and toluene-2,6-di-isocyanate, which are known to the State of California to cause cancer, and Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

Global Inventories:

<table>
<thead>
<tr>
<th>Notification status:</th>
</tr>
</thead>
<tbody>
<tr>
<td>US - TSCA</td>
</tr>
<tr>
<td>Canada -DSL</td>
</tr>
<tr>
<td>Canada - NDSL</td>
</tr>
<tr>
<td>EU - EINECS</td>
</tr>
<tr>
<td>EU - ELINCS</td>
</tr>
<tr>
<td>EU - NLP</td>
</tr>
<tr>
<td>Australia – AICS</td>
</tr>
<tr>
<td>China - EICSC</td>
</tr>
<tr>
<td>Japan - ENCS</td>
</tr>
<tr>
<td>Korea - KECI</td>
</tr>
<tr>
<td>Taiwan - NECI</td>
</tr>
<tr>
<td>New Zealand - NZIoC</td>
</tr>
<tr>
<td>Philippine - PICCS</td>
</tr>
</tbody>
</table>
EU - REACH Status:
A registration number is not available for substances in this mixture as the substances are exempted from registration or the annual tonnage does not require a registration.

<table>
<thead>
<tr>
<th>HAZARD CLASSIFICATION</th>
<th>CATEGORY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Corrosion/Irritation</td>
<td>2</td>
</tr>
<tr>
<td>Eye Damage/Irritation</td>
<td>2A</td>
</tr>
<tr>
<td>Sensitization - Respiratory</td>
<td>1</td>
</tr>
<tr>
<td>Sensitization - Skin</td>
<td>1B</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>2</td>
</tr>
<tr>
<td>Flammable Liquids</td>
<td>2</td>
</tr>
<tr>
<td>Toxic to aquatic life</td>
<td>2</td>
</tr>
<tr>
<td>Toxic to aquatic life with long lasting effects</td>
<td>2</td>
</tr>
</tbody>
</table>

CANADA – WHMIS (Workplace Hazardous Materials Information System) Classification (GHS):

<table>
<thead>
<tr>
<th>HAZARD CLASSIFICATION</th>
<th>CATEGORY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Corrosion/Irritation</td>
<td>2</td>
</tr>
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<td>Eye Damage/Irritation</td>
<td>2A</td>
</tr>
<tr>
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<td>1</td>
</tr>
<tr>
<td>Sensitization - Skin</td>
<td>1B</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>2</td>
</tr>
<tr>
<td>Flammable Liquids</td>
<td>2</td>
</tr>
<tr>
<td>Toxic to aquatic life</td>
<td>2</td>
</tr>
<tr>
<td>Toxic to aquatic life with long lasting effects</td>
<td>2</td>
</tr>
</tbody>
</table>

MEXICO (GHS):

<table>
<thead>
<tr>
<th>HAZARD CLASSIFICATION</th>
<th>CATEGORY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Corrosion/Irritation</td>
<td>2</td>
</tr>
<tr>
<td>Eye Damage/Irritation</td>
<td>2A</td>
</tr>
<tr>
<td>Sensitization - Respiratory</td>
<td>1</td>
</tr>
<tr>
<td>Sensitization - Skin</td>
<td>1B</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>2</td>
</tr>
<tr>
<td>Flammable Liquids</td>
<td>2</td>
</tr>
<tr>
<td>Toxic to aquatic life</td>
<td>2</td>
</tr>
<tr>
<td>Toxic to aquatic life with long lasting effects</td>
<td>2</td>
</tr>
</tbody>
</table>

Carcinogen Status: No data available.

SECTION 16: OTHER INFORMATION

HMIS (Hazardous Materials Identification System) rating:

<table>
<thead>
<tr>
<th>Category</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>2*</td>
</tr>
<tr>
<td>Flammability</td>
<td>3</td>
</tr>
<tr>
<td>Physical</td>
<td>1</td>
</tr>
</tbody>
</table>

NFPA 704 (National Fire Protection Association) rating:
SAFETY DATA SHEET

Trade Name: UB6421PC – REGULAR URETHANE BLACK BASECOAT VOC COMPLIANT - POLYOL COMPONENT A

Date of preparation: July 16, 2018
Version: 1.0
Revision Date: July 16, 2018

Disclaimer: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user’s responsibility to satisfy oneself as to the suitability and completeness of this information for the user’s own particular use.

Prepared by: Firestone Building Products
200 4th Avenue South
Nashville, TN 37201
Gaco is a Firestone Building Products brand

Legend:

DOT US Department of Transportation
IATA International Air Transport Association
ICAO International Civil Aviation Organization
IMDG International Maritime Dangerous Goods
ACGIH American Conference of Governmental Industrial Hygienists
NTP National Toxicology Program
IARC International Agency for Research on Cancer
PPE Personal Protective Equipment
RCRA Resource Conservation and Recovery Act
CAA Clean Air Act
SARA Superfund Amendments and Reauthorization Act
EPCRA Emergency Planning and Community Right-to-Know Act
WHMIS Workplace Hazardous Materials Information System
EU European Union
REACH Regulation on Registration, Evaluation, Authorisation and Restriction of Chemicals
CERCLA Comprehensive Environmental Response, Compensation and Liability Act
TSCA US Toxic Substances Control Act (TSCA)
DSL Canada Domestic Substance List (DSL)
NDSL Canada Non-Domestic Substance List (NDSL)
EINECS European Inventory of Existing Commercial Chemical Substances (EINECS)
ELINCS European List of Notified Chemical Substances (ELINCS)
NLP European list of No-longer Polymers (NLP)
AICS Australian Inventory of Chemical Substances (AICS)
EICSC China Existing Chemical Inventory - IECSC
ENCS Japanese Existing and New Chemical Substances Inventory (ENCS)
KECI Korea Existing Chemicals Inventory (KECI)
NECI Taiwan National Existing Chemical Inventory (NECI)
NZIoC New Zealand Inventory of Chemicals (NZIoC)
PICS Philippine Inventory of Chemicals and Chemical Substances (PICCS)
HMIS Hazardous Materials Identification System
NFPA National Fire Protection Association (NFPA)

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End of Safety Data Sheet