# SAFETY DATA SHEET

## 1. Identification

**Product identifier**  
Modified Asphalt

**Other means of identification**

- **SDS number**: 212-GHS
- **Synonyms**: AC-20P, AC-20R, MB, GTR, PBA, LLP, PG, RAC - MODIFIED ASPHALT GRADES, Asphalt Rubber Crack Sealant

**Recommended use**  
Asphalt products are to be used as road and highway paving applications; waterproofing and sealing applications; coatings; or other engineering applications. Use in other applications may result in higher exposures and require additional engineering controls and personal protective equipment.

**Recommended restrictions**  
None known.

**Manufacturer/Importer/Supplier/Distributor information**

- **Manufacturer/Supplier**: Valero Marketing & Supply Company and Affiliates  
  One Valero Way  
  San Antonio, TX 78269-6000
- **General Assistance**: 210-345-4593
- **E-Mail**: CorpHSE@valero.com
- **Contact Person**: Industrial Hygienist
- **Emergency Telephone**: 24 Hour Emergency 866-565-5220  
  1-800-424-9300 (CHEMTREC USA)

## 2. Hazard(s) identification

**Physical hazards**  
Not classified.

**Health hazards**

- Skin corrosion/irritation: Category 2
- Serious eye damage/eye irritation: Category 2
- Carcinogenicity: Category 2
- Specific target organ toxicity, single exposure: Category 2
- Specific target organ toxicity, repeated exposure: Category 2

**OSHA defined hazards**  
Not classified.

**Label elements**

- **Signal word**: Danger
- **Hazard statement**: Causes skin irritation. Causes eye irritation. Suspected of causing cancer. May cause damage to organs. May cause damage to organs (Lungs) through prolonged or repeated exposure.
- **Precautionary statement**
  - **Prevention**: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.
  - **Response**: If exposed or concerned: Get medical advice/attention. Get medical advice/attention if you feel unwell. If swallowed: Rinse mouth. Do not induce vomiting. If on skin: Wash with plenty of water. If skin irritation occurs, seek medical advice/attention. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before re-use. 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 eye irritation persists: Get medical advice/attention.
  - **Storage**: Store locked up.
  - **Disposal**: Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)  None known.

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asphalt</td>
<td>8052-42-4</td>
<td>0 - 100</td>
</tr>
<tr>
<td>Vacum tower bottoms</td>
<td>64741-56-6</td>
<td>0 - 100</td>
</tr>
<tr>
<td>Distillates, petroleum residues, vacum</td>
<td>68955-27-1</td>
<td>0 - 15</td>
</tr>
<tr>
<td>Butadiene-styrene Rubber</td>
<td>9003-55-8</td>
<td>0 - 10</td>
</tr>
<tr>
<td>Copolymer of ethylene and octane</td>
<td>26221-73-8</td>
<td>0 - 10</td>
</tr>
<tr>
<td>Maleic anhydride modified polypropylene</td>
<td>Not Applicable</td>
<td>0 - 10</td>
</tr>
<tr>
<td>Sulfur</td>
<td>7704-34-9</td>
<td>0 - 10</td>
</tr>
<tr>
<td>Calcium oxide</td>
<td>1305-78-8</td>
<td>0 - 5</td>
</tr>
<tr>
<td>Pollyphosphoric acid</td>
<td>8017-16-1</td>
<td>0 - 2</td>
</tr>
<tr>
<td>Bis(2-ethylhexyl)phthalate</td>
<td>117-81-7</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>Hydrogen sulfide</td>
<td>7783-06-4</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>Polycyclic Aromatic Hydrocarbons</td>
<td>130498-29-2</td>
<td>&lt;0.1</td>
</tr>
</tbody>
</table>

Composition comments  Dangerous amounts of hydrogen sulfide, a highly toxic gas, may be present, especially in the headspace of containers.

4. First-aid measures

Inhalation  Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.

Skin contact  In case of contact with hot or molten product, cool rapidly with water and seek immediate medical attention. Do not attempt to remove molten product from skin because skin will tear easily. Remove contaminated clothing and shoes. Get medical attention if irritation develops or persists. Wash clothing separately before reuse. Destroy or thoroughly clean contaminated shoes. If high pressure injection under the skin occurs, always seek medical attention.

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.

Ingestion  Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. Do not give mouth-to-mouth resuscitation. If vomiting occurs, keep head low so that stomach content does not get into the lungs. Never give anything by mouth to a victim who is unconscious or is having convulsions. Get medical attention immediately.


Indication of immediate medical attention and special treatment needed  In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

General information  If exposed or concerned: get medical attention/advice. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use.

5. Fire-fighting measures


Unsuitable extinguishing media  Do not use water jet.
Specific hazards arising from the chemical

Vapor may cause flash fire. Vapors can flow along surfaces to distant ignition source and flash back. Sensitive to static discharge.

Special protective equipment and precautions for firefighters

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

Fire-fighting equipment/instructions

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Withdraw immediately in case of rising sound from venting safety devices or any discoloration of tanks due to fire. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Move containers from fire area if you can do it without risk. In the event of fire, cool tanks with water spray. Cool containers exposed to flames with water until well after the fire is out. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn. Water runoff can cause environmental damage. Use compatible foam to minimize vapor generation as needed.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Local authorities should be advised if significant spills cannot be contained. Keep upwind. Keep out of low areas. Ventilate closed spaces before entering. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. See Section 8 of the SDS for Personal Protective Equipment.

Methods and materials for containment and cleaning up

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Extinguish all flames in the vicinity. 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.

Small Spills: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Cover with plastic sheet to prevent spreading. Collect spillage. Following product recovery, flush area with water. Prevent product from entering drains. Do not allow material to contaminate ground water system. Clean surface thoroughly to remove residual contamination. Wipe up with absorbent material (e.g. cloth, fleece).

Environmental precautions

If facility or operation has an “oil or hazardous substance contingency plan”, activate its procedures. Stay upwind and away from spill. Wear appropriate protective equipment including respiratory protection as conditions warrant. Do not enter or stay in area unless monitoring indicates that it is safe to do so. Isolate hazard area and restrict entry to emergency crew. Review Firefighting Measures, Section 5, before proceeding with clean up. Keep all sources of ignition (flames, smoking, flares, etc.) and hot surfaces away from release. Contain spill in smallest possible area. Recover as much product as possible (e.g. by vacuuming). Stop leak if it can be done without risk. Use water spray to disperse vapors. Use compatible foam to minimize vapor generation as needed. Spilled material may be absorbed by an appropriate absorbent, and then handled in accordance with environmental regulations. Prevent spilled material from entering sewers, storm drains, other unauthorized treatment or drainage systems and natural waterways. Contact fire authorities and appropriate federal, state and local agencies. If spill of any amount is made into or upon navigable waters, the contiguous zone, or adjoining shorelines, contact the National Response Center at 1-800-424-8802. For highway or railways spills, contact Chemtrec at 1-800-424-9300.

7. Handling and storage

Precautions for safe handling

Wear personal protective equipment. Avoid breathing mist or vapor from heated material. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Use only with adequate ventilation. Wash thoroughly after handling. Do not handle, store or open near an open flame or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use only non-sparking tools. When using, do not eat, drink or smoke. Avoid release to the environment.

Conditions for safe storage, including any incompatibilities

Material is normally stored in closed tanks at 250 to 375F. Do not handle, store or open near an open flame or sources of ignition. Protect material from direct sunlight. This material can accumulate static charge which may cause spark and become an ignition source. The pressure in sealed containers can increase under the influence of heat. Keep away from food, drink and animal feedingstuffs. Keep out of the reach of children.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium oxide (CAS 1305-78-8)</td>
<td>PEL</td>
<td>5 mg/m3</td>
</tr>
</tbody>
</table>

Modified Asphalt

914096  Version #: 02  Revision date: 05-May-2014  Print date: 05-May-2014

Prepared by 3E Company
US. OSHA Table Z-2 (29 CFR 1910.1000)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen sulfide (CAS 7783-06-4)</td>
<td>Ceiling</td>
<td>20 ppm</td>
</tr>
</tbody>
</table>

US. ACGIH Threshold Limit Values

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asphalt (CAS 8052-42-4)</td>
<td>TWA</td>
<td>0.5 mg/m³</td>
<td>Inhalable fraction.</td>
</tr>
<tr>
<td>Calcium oxide (CAS 1305-78-8)</td>
<td>TWA</td>
<td>2 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Hydrogen sulfide (CAS 7783-06-4)</td>
<td>STEL</td>
<td>5 ppm</td>
<td></td>
</tr>
<tr>
<td>Vacuum tower bottoms (CAS 64741-56-6)</td>
<td>TWA</td>
<td>1 ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.5 mg/m³</td>
<td>Inhalable fraction.</td>
</tr>
</tbody>
</table>

US. NIOSH: Pocket Guide to Chemical Hazards

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asphalt (CAS 8052-42-4)</td>
<td>Ceiling</td>
<td>5 mg/m³</td>
<td>Fume.</td>
</tr>
<tr>
<td>Calcium oxide (CAS 1305-78-8)</td>
<td>TWA</td>
<td>2 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Hydrogen sulfide (CAS 7783-06-4)</td>
<td>Ceiling</td>
<td>15 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>10 ppm</td>
<td></td>
</tr>
<tr>
<td>Vacuum tower bottoms (CAS 64741-56-6)</td>
<td>Ceiling</td>
<td>5 mg/m³</td>
<td>Fume.</td>
</tr>
</tbody>
</table>

Biological limit values

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

Appropriate engineering controls

Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Individual protection measures, such as personal protective equipment

Eye/face protection

- Wear safety glasses. If splash potential exists, wear full face shield or chemical goggles.

Skin protection

- Other: Wear chemical-resistant, impervious gloves. Flame retardant protective clothing is recommended.

Respiratory protection

- Wear a NIOSH-approved (or equivalent) respirator as needed.

Thermal hazards

- Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

- Consult supervisor for special handling instructions. Avoid contact with eyes. Avoid contact with skin. Keep away from food and drink. Wash hands before breaks and immediately after handling the product. Provide eyewash station and safety shower. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Appearance

- Dark brown to black liquid at normal use temperatures above 300F. Semi-solid at 70F.

Physical state

- Liquid.

Form

- Semi-Solid at 70F

Color

- Brown/black.

Odor

- Strong petroleum.

Odor threshold

- Not available.

pH

- Not available.

Melting point/freezing point

- > 134.96 °F (> 57.2 °C)

Initial boiling point and boiling range

- 700 - 1100.1 °F (371.11 - 593.39 °C)

Flash point

- > 350.1 °F (> 176.7 °C) Closed Cup

Evaporation rate

- Not available.
Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

| Flammability limit - lower (%) | > 0.9 |
| Flammability limit - upper (%) | < 7 |
| Explosive limit - lower (%) | Not available. |
| Explosive limit - upper (%) | Not available. |

Vapor pressure < 0.01 kPa @ 20 °C

Vapor density > 1.6 (Air = 1)

Relative density 1 - 1.2 (Water=1)

Solubility(ies)

| Solubility (water) | Not available. |

Partition coefficient (n-octanol/water) Not available.

Auto-ignition temperature > 600.1 °F (> 315.61 °C)

Decomposition temperature Not available.

Viscosity Not available.

10. Stability and reactivity

Reactivity Not available.

Chemical stability Stable under normal temperature conditions and recommended use.

Possibility of hazardous reactions Hazardous polymerization does not occur.

Conditions to avoid Flames and sparks. Ignition sources. Contact with incompatible materials. Do not pressurize, cut, weld, braze, solder, drill, grind or expose empty containers to heat, flame, sparks, static electricity, or other sources of ignition; they may explode and cause injury or death.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition products No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

| Ingestion | May be harmful if swallowed. |
| Inhalation | In high concentrations, vapors and spray mists are narcotic and may cause headache, fatigue, dizziness and nausea. |
| Skin contact | Causes skin irritation. |
| Eye contact | Causes eye irritation. |

Symptoms related to the physical, chemical and toxicological characteristics


Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met.

| Components | Species | Test Results |
| Hydrogen sulfide (CAS 7783-06-4) | | |
| Acute | | |
| Inhalation | | |
| LC50 | Monkey | 0.7 mg/l, 35 Minutes |
| | Mouse | 1.5 mg/l, 18 Minutes |
| | | 0.38 mg/l, 410 Minutes |
| | | 0.096 mg/l, 804 Minutes |
| | | > 0.024 mg/l, 960 Minutes |
| | Rat | 1.5 mg/l, 14 Minutes |
Skin corrosion/irritation
- Causes skin irritation.

Serious eye damage/eye irritation
- Causes eye irritation.

Respiratory or skin sensitization
  Respiratory sensitization
  - Based on available data, the classification criteria are not met.
  Skin sensitization
  - Causes skin burns.

Germ cell mutagenicity
- Based on available data, the classification criteria are not met.

Carcinogenicity
  Suspected of causing cancer. Contains polycyclic aromatic compounds (PACs). Prolonged and/or repeated skin contact with certain PACs has been shown to cause skin cancer. Prolonged and/or repeated exposures by inhalation of certain PACs may also cause cancer of the lung and of other sites of the body.
  The Working Group has classified occupational exposures to straight-run bitumens/asphalts and their fume condensates during road paving as “possibly carcinogenic to humans” (Group 2B).
  Occupational exposure to straight-run asphalts and their emissions during road paving: 2B Possibly carcinogenic to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity
  Asphalt (CAS 8052-42-4) 2B Possibly carcinogenic to humans.
  Vacuum tower bottoms (CAS 64741-56-6) 2B Possibly carcinogenic to humans.

Reproductive toxicity
- Based on available data, the classification criteria are not met.

Specific target organ toxicity - single exposure
- May cause damage to organs: Lungs.

Specific target organ toxicity - repeated exposure
- May cause damage to organs (Lungs) through prolonged or repeated exposure.

Aspiration hazard
- Based on available data, the classification criteria are not met.

Further information
- Symptoms may be delayed.

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.

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen sulfide (CAS 7783-06-4)</td>
<td>Aquatic</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fish LC50</td>
<td>Bluegill (Lepomis macrochirus) 0.009 mg/l, 96 hours</td>
</tr>
</tbody>
</table>

Persistence and degradability
- Not available.

Bioaccumulative potential
- Not available.

Mobility in soil
- Not available.

Other adverse effects
- Not available.

13. Disposal considerations

Disposal instructions
- Dispose in accordance with all applicable regulations. This material and its container must be disposed of as hazardous waste.

Local disposal regulations
- Dispose of in accordance with local regulations.

Hazardous waste code
- D001: Waste Flammable material with a flash point <140 °F

US RCRA Hazardous Waste U List: Reference
- Hydrogen sulfide (CAS 7783-06-4) U135

Waste from residues / unused products
- Dispose of in accordance with local regulations.

Contaminated packaging
- Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT
- UN number UN3257
UN proper shipping name: Elevated temperature liquid, n.o.s. (Asphalt)

Transport hazard class(es)
- Class: 9
- Subsidiary risk: -
- Packing group: III

Special precautions for user:
Read safety instructions, SDS and emergency procedures before handling.

Special provisions:
IB1, T3, TP3, TP29

Packaging exceptions:
None

Packaging non bulk:
None

Packaging bulk:
173, 247

IATA
UN number: UN3257
UN proper shipping name: Elevated temperature liquid, n.o.s. (Asphalt)
Transport hazard class(es)
- Class: 9
- Subsidiary risk: -
- Packing group: III

Environmental hazards:
Not applicable.

ERG Code:
9L

IMDG
UN number: UN3257
UN proper shipping name: Elevated temperature liquid, n.o.s. (Asphalt)
Transport hazard class(es)
- Class: 9
- Subsidiary risk: -
- Packing group: III

Environmental hazards:
No.

EmS:
F-A, S-P*

Special precautions for user:
Read safety instructions, SDS and emergency procedures before handling.

IMDG
UN number: UN3257
UN proper shipping name: Elevated temperature liquid, n.o.s. (Asphalt)
Transport hazard class(es)
- Class: 9
- Subsidiary risk: -
- Packing group: III

Environmental hazards:
No.

Marine pollutant:
Not applicable.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:
Read safety instructions, SDS and emergency procedures before handling.

15. Regulatory information

US federal regulations
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)
Asphalt (CAS 8052-42-4) LISTED
Hydrogen sulfide (CAS 7783-06-4) LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)
Hazard categories
- Immediate Hazard - Yes
- Delayed Hazard - Yes
- Fire Hazard - No
- Pressure Hazard - No
- Reactivity Hazard - No

SARA 302 Extremely hazardous substance

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>Reportable quantity</th>
<th>Threshold planning quantity, lower value</th>
<th>Threshold planning quantity, upper value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen sulfide</td>
<td>7783-06-4</td>
<td>100</td>
<td>500 lbs</td>
<td></td>
</tr>
<tr>
<td>SARA 311/312 Hazardous chemical</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Modified Asphalt
914096   Version #: 02   Revision date: 05-May-2014   Print date: 05-May-2014
Prepared by 3E Company
SARA 313 (TRI reporting)
Not regulated.

Other federal regulations
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
- Polycyclic Aromatic Hydrocarbons (CAS 130498-29-2)
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
- Hydrogen sulfide (CAS 7783-06-4)
Safe Drinking Water Act (SDWA)
Not regulated.

US state regulations
WARNING: This product contains chemicals known to the State of California to cause cancer.

US. Massachusetts RTK - Substance List
- Asphalt (CAS 8052-42-4)
- Calcium oxide (CAS 1305-78-8)
- Hydrogen sulfide (CAS 7783-06-4)
- Sulfur (CAS 7704-34-9)
- Vacuum tower bottoms (CAS 64741-56-6)

US. New Jersey Worker and Community Right-to-Know Act
- Asphalt (CAS 8052-42-4)
- Calcium oxide (CAS 1305-78-8)
- Hydrogen sulfide (CAS 7783-06-4)
- Polycyclic Aromatic Hydrocarbons (CAS 130498-29-2)
- Sulfur (CAS 7704-34-9)
- Vacuum tower bottoms (CAS 64741-56-6)

US. Pennsylvania Worker and Community Right-to-Know Law
- Asphalt (CAS 8052-42-4)
- Calcium oxide (CAS 1305-78-8)
- Hydrogen sulfide (CAS 7783-06-4)
- Polycyclic Aromatic Hydrocarbons (CAS 130498-29-2)
- Sulfur (CAS 7704-34-9)
- Vacuum tower bottoms (CAS 64741-56-6)

US. Rhode Island RTK
- Hydrogen sulfide (CAS 7783-06-4)

US. California Proposition 65
US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance
- Asphalt (CAS 8052-42-4)
- Bis(2-ethylhexyl) phthalate (CAS 117-81-7)
- Vacuum tower bottoms (CAS 64741-56-6)

International Inventories

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

*A "Yes" indicates this product complies 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

Issue date: 27-June-2013
Revision date: 05-May-2014
Version #: 02

NFPA Ratings

References

ACGIH
EPA: AQUIRE database
NLM: Hazardous Substances Data Base
US. IARC Monographs on Occupational Exposures to Chemical Agents
HSDB® - Hazardous Substances Data Bank
IARC Monographs. Overall Evaluation of Carcinogenicity
National Toxicology Program (NTP) Report on Carcinogens
ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices

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