WEST SYSTEM® 209 Extra Slow Hardener
Safety Data Sheet
Date of issue: 06/01/2015  Revision date: 01/25/2019  Version: 209 -2019a

SECTION 1: Identification
Identification
Product name : WEST SYSTEM® 209 Extra Slow Hardener

Relevant identified uses of the substance or mixture and uses advised against
Recommended use : Curing agent for epoxy resins

Details of the supplier of the safety data sheet
Manufacturer
Gougeon Brothers, Inc
100 Patterson Ave.
Bay City, MI 48706 - U.S.A.
T 866-937-8797 or 989-684-7286
www.westsystem.com

Emergency telephone number
Emergency number : CHEMTREC 1 (800) 424-9300
CHEMTREC International +1 (703) 527-3887 24 hr

SECTION 2: Hazard(s) identification
Classification of the substance or mixture
Acute Tox. 4 (Oral)
Skin Corr. 1B
Eye Dam. 1
Skin Sens. 1
STOT SE 3
STOT RE 2
Aquatic Acute 2
Aquatic Chronic 2

Label elements
Hazard pictograms (GHS) :

GHS05  GHS07  GHS08  GHS09

Signal word (GHS) :
Danger

Hazard statements (GHS) :
Harmful if swallowed. Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life. Toxic to aquatic life with long lasting effects

Precautionary statements (GHS) :
Do not breathe dust, fume, gas, mist, vapours, spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves, protective clothing, eye protection, face protection. If swallowed: rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a poison center/doctor. Wash contaminated clothing before reuse. 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. Collect spillage. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents/container to a hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

Other hazards
No additional information available

Unknown acute toxicity
No additional information available
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SECTION 3: Composition/information on ingredients

Substance
Not applicable

Mixtures

<table>
<thead>
<tr>
<th>Substance</th>
<th>Product identifier</th>
<th>HPR %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fatty acids, C18-unsaturated, dimers, polymers with tall-oil fatty acids and triethylenetetramine</td>
<td>(CAS No) 68082-29-1</td>
<td>30 - 60</td>
</tr>
<tr>
<td>Cyclohexanamine, 4,4'-methylenebis-</td>
<td>(CAS No) 1761-71-3</td>
<td>10 - 30</td>
</tr>
<tr>
<td>Propylene glycol diamine, 2-amino-, diether with Propylene</td>
<td>(CAS No) 9046-10-0</td>
<td>10 - 30</td>
</tr>
<tr>
<td>Formaldehyde, polymer with benzenamine, hydrogenated</td>
<td>(CAS No) 135108-88-2</td>
<td>7 - 30</td>
</tr>
<tr>
<td>Formaldehyde, oligomeric reaction products with phenol and m-phenylenebis(methylamine)</td>
<td>(CAS No) 57214-10-5</td>
<td>3 - 7</td>
</tr>
<tr>
<td>1,3-Benzenedimethanamine</td>
<td>(CAS No) 1477-55-0</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Triethylenetetramine</td>
<td>(CAS No) 112-24-3</td>
<td>1 - 5</td>
</tr>
</tbody>
</table>

The exact chemical identity and/or exact percentage (concentration) of each ingredient may be held as confidential business information (CBI). Any ingredient not disclosed in this section may have been determined not to be hazardous to health or the environment, or it may be present at a level below its disclosure threshold.

SECTION 4: First aid measures

Description of first aid measures

First-aid measures after inhalation: If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

First-aid measures after skin contact: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or doctor/physician.

First-aid measures after eye contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention immediately.

First-aid measures after ingestion: If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Immediately call a POISON CENTER or doctor/physician.

Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation: May cause respiratory irritation.

Symptoms/injuries after skin contact: Causes severe burns. Symptoms may include redness, pain, blisters. May cause an allergic skin reaction.

Symptoms/injuries after eye contact: Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns.

Symptoms/injuries after ingestion: Harmful if swallowed. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. May cause stomach distress, nausea or vomiting.

Indication of any immediate medical attention and special treatment needed

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

SECTION 5: Firefighting measures

Extinguishing media


Unsuitable extinguishing media

Do not use a heavy water stream.

Special hazards arising from the substance or mixture

Fire hazard: Products of combustion may include, and are not limited to: oxides of carbon. Oxides of nitrogen. Amines. Ammonia. Nitric acid. nitrosamines. Aldehydes. Cyanides. When mixed with sawdust, wood chips, or other cellulose material, spontaneous combustion can occur under certain conditions. Heat is generated as the air oxidizes the amine. If the heat is not dissipated quickly enough, it can ignite the sawdust.

Reactivity: No dangerous reaction known under conditions of normal use.

Advice for firefighters

Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).
SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

General measures: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

For non-emergency personnel
No additional information available

For emergency responders
No additional information available

Environmental precautions
Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

Methods and material for containment and cleaning up

For containment: Stop leak if safe to do so. Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE). Do not absorb in sawdust, paper, cloth or other combustible absorbents.

Methods for cleaning up: Scoop up material and place in a disposal container. Provide ventilation.

Reference to other sections
See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.

SECTION 7: Handling and storage

Precautions for safe handling

Precautions for safe handling: Do not get in eyes, on skin, or on clothing. Do not breathe vapours, mist. Do not swallow. Handle and open container with care. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. When mixed with epoxy resin this product causes an exothermic reaction, which in large masses, can produce enough heat to damage or ignite surrounding materials and emit fumes and vapors that vary widely in composition and toxicity.

Hygiene measures: Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

Conditions for safe storage, including any incompatibilities

Storage conditions: Keep out of the reach of children. Keep only in the original container in a cool, well-ventilated place. Keep container tightly closed. Keep away from heat and direct sunlight. Storage temperature: 40°F (4°C) - 90°F (32°C).

SECTION 8: Exposure controls/personal protection

Control parameters

<table>
<thead>
<tr>
<th>Chemical</th>
<th>ACGIH</th>
<th>ACGIH Ceiling (mg/m³)</th>
<th>NIOSH</th>
<th>NIOSH REL (ceiling) (mg/m³)</th>
<th>AIHA</th>
<th>WEEIL TWA (mg/m³)</th>
<th>NIOSH</th>
<th>WEEIL TWA (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fatty acids, C18-unsaturated, dimers, polymers with tall-oil fatty acids and triethylenetetramine (68082-29-1)</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Cyclohexanamine, 4,4'-methylenebis- (1761-71-3)</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Propylene glycol diamine, 2-amino-, diether with Propylene (9046-10-0)</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Formaldehyde, polymer with benzenamine, hydrogenated (135108-88-2)</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Formaldehyde, oligomeric reaction products with phenol and m-phenylenebis(methylamine) (57214-10-5)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,3-Benzenedimethanamine (1477-55-0)</td>
<td>ACGIH Ceiling (mg/m³)</td>
<td>0.1 mg/m³ (Skin)</td>
<td>NIOSH REL (ceiling) (mg/m³)</td>
<td>0.1 mg/m³</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Triethylenetetramine (112-24-3)</td>
<td>AIHA</td>
<td>WEEIL TWA (mg/m³)</td>
<td>6 mg/m³ (Skin)</td>
<td>NIOSH</td>
<td>WEEIL TWA (ppm)</td>
<td>1 ppm</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Exposure controls

Appropriate engineering controls: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

Hand protection: Wear chemically resistant protective gloves.

Eye protection: Wear approved eye protection (properly fitted dust- or splash-proof chemical safety goggles) and face protection (face shield).

Skin and body protection: Wear suitable protective clothing.

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Environmental exposure controls: Maintain levels below Community environmental protection thresholds.

Other information: Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state: Liquid

Appearance: No data available.

Colour: Amber

Odour: Ammonia

Odour threshold: No data available

pH: 11.5

Melting point: No data available

Freezing point: No data available

Boiling point: > 400 °F (204°C) (estimated based on similar product)

Flash point: > 200 °F (93°C) (estimated based similar product)

Relative evaporation rate (butylacetate=1): No data available

Flammability (solid, gas): Not flammable.

Vapour pressure: < 1 mm Hg @ 68 °F (20 °C)

Relative vapour density at 20 °C: No data available

Relative density: 0.96

Solubility: No data available

Partition coefficient n-octanol/water: No data available

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Viscosity, kinematic: 67.3 mm²/s @104 °F (40°C)

Viscosity, dynamic: No data available

Explosive limits: No data available

Explosive properties: No data available

Oxidising properties: No data available

Other information: VOC content: 19.3 g/L (0.16 lbs/gal)

Bulk density: 7.99 lb/gal (0.96 kg/L)

SECTION 10: Stability and reactivity

Reactivity: No dangerous reaction known under conditions of normal use.

Chemical stability: Stable under normal storage conditions.

Possibility of hazardous reactions: No dangerous reaction known under conditions of normal use. A mass of more than one pound of product plus an epoxy resin will cause irreversible polymerization with significant heat buildup and pressure.

Conditions to avoid: Heat. Incompatible materials.


SECTION 11: Toxicological information

Information on toxicological effects

<table>
<thead>
<tr>
<th>Product</th>
<th>LD50 oral rat</th>
<th>LD50 dermal rabbit</th>
<th>LC50 inhalation rat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cyclohexanamine, 4,4'-methylenebis- (1761-71-3)</td>
<td>380 mg/kg</td>
<td>&gt; 1000 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Propylene glycol diamine, 2-amino-, diether with Propylene (9046-10-0)</td>
<td>2855 mg/kg</td>
<td>2890 mg/kg</td>
<td>&gt; 0.74 mg/l/8h</td>
</tr>
<tr>
<td>1,3-Benzenedimethanamine (1477-55-0)</td>
<td>930 mg/kg</td>
<td>2000 mg/kg</td>
<td>1.34 mg/l/4h</td>
</tr>
<tr>
<td>Triethylenetetramine (112-24-3)</td>
<td>1716.2 mg/kg</td>
<td>805 mg/kg</td>
<td></td>
</tr>
</tbody>
</table>

Acute toxicity (oral): Harmful if swallowed.
Acute toxicity (dermal): Not classified.
Acute toxicity (inhalation): Not classified.
Skin corrosion/irritation: Causes severe skin burns.
Serious eye damage/irritation: Causes serious eye damage.
Respiratory or skin sensitization: May cause an allergic skin reaction.
Germ cell mutagenicity: Not classified.
Carcinogenicity: Not classified. No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA, NTP or IARC.
Reproductive toxicity: Not classified.
STOT-single exposure: May cause respiratory irritation.
STOT-repeated exposure: May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard: Not classified.

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Viscosity, kinematic (calculated value) (40 °C): 67.3 mm²/s @104 °F (40°C)

Potential adverse human health effects and symptoms

Potential adverse human health effects and symptoms: Harmful if swallowed.
Symptoms/injuries after inhalation: May cause respiratory irritation.
Symptoms/injuries after skin contact: Causes severe burns. Symptoms may include redness, pain, blisters. May cause an allergic skin reaction.
Symptoms/injuries after eye contact: Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns.
Symptoms/injuries after ingestion: Harmful if swallowed. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. May cause stomach distress, nausea or vomiting.
Other information: Likely routes of exposure: ingestion, inhalation, skin and eye.

SECTION 12: Ecological information

Toxicity

Ecology - general: Toxic to aquatic life with long lasting effects.

Triethylenetetramine (112-24-3)

<table>
<thead>
<tr>
<th>Species</th>
<th>LC50 fish</th>
<th>EC50 Daphnia</th>
</tr>
</thead>
<tbody>
<tr>
<td>Species: Poecilia reticulata [semi-static]</td>
<td>570 mg/l [Exposure time: 96 h]</td>
<td>31.1 mg/l [Exposure time: 48 h]</td>
</tr>
</tbody>
</table>
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Triethylenetetramine (112-24-3)
LC50 fish 2 495 mg/l (Exposure time: 96 h - Species: Pimephales promelas)

### Persistence and degradability

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>Ecotoxicity Classification Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fatty acids, C18-unsaturated, dimers, polymers with tall-oil fatty acids and triethylenetetramine</td>
<td>(CAS No) 68082-29-1</td>
<td>Chronic Aquatic 2</td>
</tr>
<tr>
<td>Cyclohexanamine, 4,4’-methylenebis-</td>
<td>(CAS No) 1761-71-3</td>
<td>Acute Aquatic Cat. 2; Chronic Aquatic Cat. 2</td>
</tr>
<tr>
<td>Propylene glycol diamine, 2-amino-, diether with Propylene</td>
<td>(CAS No) 9046-10-0</td>
<td>Acute Aquatic Cat. 3; Chronic Aquatic Cat. 2</td>
</tr>
<tr>
<td>Formaldehyde, polymer with benzeneamine, hydrogenated</td>
<td>(CAS No) 135108-88-2</td>
<td>Not classified</td>
</tr>
<tr>
<td>Formaldehyde, oligomeric reaction products with phenol and m-phenylenebis(methylamine)</td>
<td>(CAS No) 57214-10-5</td>
<td>Acute Aquatic Cat. 1; Chronic Aquatic Cat. 1</td>
</tr>
<tr>
<td>1,3-Benzenedimethanamine</td>
<td>(CAS No) 1477-55-0</td>
<td>Acute Aquatic Cat. 3; Chronic Aquatic Cat. 3</td>
</tr>
<tr>
<td>Triethylenetetramine</td>
<td>(CAS No) 112-24-3</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

### Other adverse effects

Effect on the global warming : No known effects from this product.

### Other information

: Avoid release to the environment.

### SECTION 13: Disposal considerations

**Waste treatment methods**

Product/Packaging disposal recommendations : This material must be disposed of in accordance with all local, state, provincial, and federal regulations. The generation of waste should be avoided or minimized wherever possible. Avoid release to the environment.

### SECTION 14: Transport information

**Department of Transportation (DOT) and Transportation of Dangerous Goods (TDG)**

In accordance with DOT and TDG

UN-No.(DOT/TDG) : UN2735

Proper Shipping Name (DOT/TDG) : Polyamines, liquid, corrosive, n.o.s. (Methylenebiscyclohexanamine, 4,4’-)

Class (DOT/TDG) : 8

Packing group (DOT/TDG) : III

Marine pollutant : No

**Transport by sea**

In accordance with IMDG

UN-No. (IMDG) : 2735

Proper Shipping Name (IMDG) : POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Methylenebiscyclohexanamine, 4,4’-)

Class (IMDG) : 8
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Packing group (IMDG) : III
EmS Number : F-A, S-B
Marine pollutant : Yes

Transport by sea
In accordance with IATA
UN-No. (IATA) : 2735
Proper Shipping Name (IATA) : Polyamines, liquid, corrosive, n.o.s. (Methylenebiscyclohexanamine, 4,4’-)
Class (IATA) : 8
Packing group (IATA) : III
Marine pollutant : Yes

SECTION 15: Regulatory information

Federal regulations
All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories.

<table>
<thead>
<tr>
<th>Fatty acids, C18-unsaturated, dimers, polymers with tall-oil fatty acids and triethylenetetramine (68082-29-1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPA TSCA Regulatory Flag</td>
</tr>
</tbody>
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<thead>
<tr>
<th>Propylene glycol diamine, 2-amino-, diether with Propylene (9046-10-0)</th>
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<tbody>
<tr>
<td>EPA TSCA Regulatory Flag</td>
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</table>

<table>
<thead>
<tr>
<th>Formaldehyde, polymer with benzenamine, hydrogenated (135108-88-2)</th>
</tr>
</thead>
</table>
| EPA TSCA Regulatory Flag | P - P - indicates a commenced PMN substance. 
XU - XU - indicates a substance exempt from reporting under the Inventory Update Reporting Rule, i.e, Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C)). |

<table>
<thead>
<tr>
<th>Formaldehyde, oligomeric reaction products with phenol and m-phenylenebis(methylamine) (67214-10-5)</th>
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</thead>
</table>
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<table>
<thead>
<tr>
<th>Propylene oxide (75-56-9)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Listed on the United States SARA Section 302</td>
</tr>
<tr>
<td>Subject to reporting requirements of United States SARA Section 313</td>
</tr>
<tr>
<td>CERCLA RQ</td>
</tr>
<tr>
<td>SARA Section 302 Threshold Planning Quantity (TPQ)</td>
</tr>
<tr>
<td>SARA Section 313 - Emission Reporting</td>
</tr>
</tbody>
</table>

International regulations
No additional information available

US State regulations
California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer, developmental and/or reproductive harm

<table>
<thead>
<tr>
<th>Propylene oxide (75-56-9)</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. - California - Carcinogens List</td>
</tr>
<tr>
<td>Yes</td>
</tr>
</tbody>
</table>
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<table>
<thead>
<tr>
<th>1,3-Benzenedimethanamine (1477-55-0)</th>
<th>U.S. - New Jersey - Right to Know Hazardous Substance List</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>U.S. - Pennsylvania - RTK (Right to Know) List</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Triethyleneetramine (112-24-3)</th>
<th>U.S. - New Jersey - Right to Know Hazardous Substance List</th>
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<tbody>
<tr>
<td></td>
<td>U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List</td>
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<tr>
<td></td>
<td>U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances</td>
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<tr>
<td></td>
<td>U.S. - Pennsylvania - RTK (Right to Know) List</td>
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**SECTION 16: Other information**

<table>
<thead>
<tr>
<th>Date of issue</th>
<th>06/01/2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revision date</td>
<td>01/25/2019</td>
</tr>
<tr>
<td>Version</td>
<td>209-2019a</td>
</tr>
<tr>
<td>Other information</td>
<td>None.</td>
</tr>
</tbody>
</table>

| NFPA health hazard     | 3                |
| NFPA fire hazard       | 1                |
| NFPA reactivity        | 0                |

HMIS III Rating

| Health                 | 3                |
| Flammability           | 1                |
| Physical               | 0                |

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.