# WEST SYSTEM® 410 Microlight® Filler

Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Date of issue: 06/01/2015 Revision date: 01/25/2019 Version: 410-2019a

## SECTION 1: Identification

**Identification**

**Product name** : WEST SYSTEM® 410 Microlight® Filler

**Product code** : 410, 410-2, 410-7 and 410-B

**Relevant identified uses of the substance or mixture and uses advised against**

**Recommended use** : Thickening agent for liquid 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**

Skin Irrit. 2
Eye Irrit. 2A
Comb. Dust

**Label elements**

**Hazard pictograms (GHS)** :

GHS07

**Signal word (GHS)** :

Warning

**Hazard statements (GHS)** :

Causes skin irritation. Causes serious eye irritation. May form combustible dust concentrations in air.

**Precautionary statements (GHS)** :

Wash hands thoroughly after handling. Wear protective gloves, protective clothing, eye protection, face protection. If on skin: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. 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. Keep away from all ignition sources including heat, sparks and open flame. Prevent dust accumulations to minimize explosion hazard.

**Other hazards**

No additional information available

**Unknown acute toxicity**

Not applicable

## SECTION 3: Composition/information on ingredients

**Substance**

Not applicable

**Mixtures**

| Name | Product identifier | HPR % |
|---|---|---|
| Sodium borate silicate | (CAS No) 50815-87-7 | 30 - 60 |
| 2-Propenoic acid, 2-methyl-, methyl ester, polymer with 1,1-dichloroethene and 2-propenenitrile | (CAS No) 25214-39-5 | 30 - 60 |

| Name | Product identifier | HPR % |
|---|---|---|
| Formaldehyde, polymer with 1,3-dimethylbenzene | (CAS No) 26139-75-3 | 5 - 10 |
| Isobutane | (CAS No) 75-28-5 | 1 - 5 |
| 2,4,6-Tri(dimethylaminomethyl)phenol | (CAS No) 90-72-2 | 1 - 5 |
| Silica, amorphous, fumed, crystalline-free | (CAS No) 112945-52-5 | 1 - 5 |

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 breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

**First-aid measures after skin contact** : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.

**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. If irritation persists, get medical attention.

**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. Get medical advice/attention if you feel unwell.

**Most important symptoms and effects, both acute and delayed**

**Symptoms/injuries after inhalation** : May cause respiratory tract irritation.

**Symptoms/injuries after skin contact** : Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin.

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

**Symptoms/injuries after ingestion** : May be harmful if swallowed. 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**

**Suitable extinguishing media** : Foam. Carbon dioxide. Dry chemical. Water fog. Water spray.

**Unsuitable extinguishing media** : Do not use a heavy water stream.

**Special hazards arising from the substance or mixture**

**Fire hazard** : Combustible dust. Products of combustion may include, and are not limited to: oxides of carbon, hydrogen chloride, nitrogen oxides, formaldehyde. nitric acid, ammonia.

**Explosion hazard** : Avoid generating dust. Airborne dust in sufficient concentrations when confined and exposed to a sufficient ignition source can explode.

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

**Advice for firefighters**

**Protection during firefighting** : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). Use water spray or fog for cooling exposed containers.

## SECTION 6: Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

General measures : Remove all sources of ignition. Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (ie, clearing dust surfaces with compressed air). Use only non-sparking tools.

**For non-emergency personnel**

No additional information available

**For emergency responders**

No additional information available

**Environmental precautions**

No additional information available

**Methods and material for containment and cleaning up**

**For containment** : Contain spill, then place in a suitable container. Minimize dust generation. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

**Methods for cleaning up** : Vacuum or sweep 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** : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid contact with skin and eyes. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. Avoid generating and breathing dust. Good housekeeping is important to prevent accumulation of dust. The use of compressed air for cleaning clothing, equipment, etc, is not recommended. Use only in well-ventilated areas. Handling this product may result in electrostatic accumulation. Use proper grounding procedures.

**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 container tightly closed. Store in dust-tight, dry, labelled containers. Avoid any dust buildup by frequent cleaning and suitable construction of the storage area. Keep away from sources of ignition. Store in well ventilated area. Storage temperature: 0°F (-17°C) / 95°F (35°C).

## SECTION 8: Exposure controls/personal protection

**Control parameters**

| **Sodium borate silicate (50815-87-7)** | | |
|---|---|---|
| ACGIH | ACGIH TWA (mg/m³) | 10 mg/m³ (Inhalable)<br>3 mg/m³ (Respirable) |
| OSHA | OSHA PEL (TWA) (mg/m³) | 15 mg/m³ (Total dust)<br>5 mg/m³ (Respirable) |

| **2-Propenoic acid, 2-methyl-, methyl ester, polymer with 1,1-dichloroethene and 2-propenenitrile (25214-39-5)** |
|---|
| Not applicable |

| **Formaldehyde, polymer with 1,3-dimethylbenzene (26139-75-3)** |
|---|
| Not applicable |

| **Isobutane (75-28-5)** | | |
|---|---|---|
| ACGIH | ACGIH STEL (ppm) | 1000 ppm |
| NIOSH | NIOSH REL (TWA) (mg/m³) | 1900 mg/m³ |
| NIOSH | NIOSH REL (TWA) (ppm) | 800 ppm |

| **2,4,6-Tri(dimethylaminomethyl)phenol (90-72-2)** |
|---|
| Not applicable |

| **Silica, amorphous, fumed, crystalline-free (112945-52-5)** | | |
|---|---|---|
| ACGIH | ACGIH TWA (mg/m³) | 10 mg/m³ (Inhalable)<br>3 mg/m³ (Respirable) |
| OSHA | OSHA PEL (TWA) (mg/m³) | 6 mg/m³ (Amorphous silica)<br>15 mg/m³ (Total dust)<br>5 mg/m³ (Respirable) |

**Exposure controls**

**Appropriate engineering controls** : Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen-deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e, there is not leakage from the equipment). Use only appropriately classified electrical equipment and powered industrial trucks.

**Hand protection** : Wear chemically resistant protective gloves.

**Eye protection** : Wear eye/face protection.

**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** | : Solid |
| **Appearance** | : Powder |
| **Colour** | : Beige |
| **Odour** | : Slight |
| **Odour threshold** | : No data available |
| **pH** | : 10.5 |
| **Melting point** | : No data available |
| **Freezing point** | : No data available |
| **Boiling point** | : No data available |
| **Flash point** | : No data available |
| **Relative evaporation rate (butylacetate=1)** | : No data available |
| **Flammability (solid, gas)** | : Combustible Dust |
| **Vapour pressure** | : No data available |
| **Relative vapour density at 20 °C** | : No data available |
| **Relative density** | : No data available |
| **Solubility** | : Insoluble in water |
| **Partition coefficient n-octanol/water** | : No data available |
| **Auto-ignition temperature** | : No data available |
| **Decomposition temperature** | : No data available |
| **Viscosity, kinematic** | : No data available |
| **Viscosity, dynamic** | : No data available |
| **Explosive limits** | : No data available |
| **Explosive properties** | : Dust may form explosive mixture in air |
| **Oxidising properties** | : No data available |

**Other information**

No additional information available

## SECTION 10: Stability and reactivity

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

**Chemical stability** : Stable under normal storage conditions. May form combustible dust concentrations in air.

**Possibility of hazardous reactions** : No dangerous reaction known under conditions of normal use.

**Conditions to avoid** : Heat. Incompatible materials. Sources of ignition. Avoid dust formation.

**Incompatible materials** : Strong oxidizing agents. Acids. Hydrofluoric acid.

**Hazardous decomposition products** : May include, and are not limited to: oxides of carbon, hydrogen chloride, nitrogen oxides, ammonia.

## SECTION 11: Toxicological information

**Information on toxicological effects**

| Formaldehyde, polymer with 1,3-dimethylbenzene (26139-75-3) | |
|---|---|
| LD50 oral rat | > 2000 mg/kg |

| 2,4,6-Tri(dimethylaminomethyl)phenol (90-72-2) | |
|---|---|
| LD50 oral rat | 2169 mg/kg |

| Silica, amorphous, fumed, crystalline-free (112945-52-5) | |
|---|---|
| LD50 oral rat | > 5000 mg/kg |
| LD50 dermal rabbit | > 2000 mg/kg |

**Acute toxicity (oral)** : Not classified.

**Acute toxicity (dermal)** : Not classified.

**Acute toxicity (inhalation)** : Not classified.

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

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

**Respiratory or skin sensitization** : Not classified.

**Germ cell mutagenicity** : Not classified.

**Carcinogenicity** : Not classified.

| Silica, amorphous, fumed, crystalline-free (112945-52-5) | |
|---|---|
| IARC group | 3 - Not classifiable |

**Reproductive toxicity** : Not classified.

**STOT-single exposure** : Not classified.

**STOT-repeated exposure** : Not classified.

**Aspiration hazard** : Not classified.

**Symptoms/injuries after inhalation** : May cause respiratory tract irritation.

**Symptoms/injuries after skin contact** : Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin.

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

**Symptoms/injuries after ingestion** : May be harmful if swallowed. 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** : May cause long-term adverse effects in the aquatic environment.

**Persistence and degradability**

| WEST SYSTEM® 410 Microlight® Filler | |
|---|---|
| Persistence and degradability | Not established. |

**Bioaccumulative potential**

| WEST SYSTEM® 410 Microlight® Filler | |
|---|---|
| Bioaccumulative potential | Not established. |

| Isobutane (75-28-5) | |
|---|---|
| BCF fish 1 | 1.57 - 1.97 |
| Partition coefficient n-octanol/water | 2.88 (at 20 °C) |

**Mobility in soil**

| WEST SYSTEM® 410 Microlight® Filler | |
|---|---|
| Ecology - soil | Not established. |

**Other adverse effects**

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

| Name | Product identifier | Ecotoxicity Classification Information |
|---|---|---|
| Sodium borate silicate | (CAS No) 50815-87-7 | No data available |
| 2-Propenoic acid, 2-methyl-, methyl ester, polymer with 1,1-dichloroethene and 2-propenenitrile | (CAS No) 25214-39-5 | No data available |
| Formaldehyde, polymer with 1,3-dimethylbenzene | (CAS No) 26139-75-3 | No data available |
| Isobutane | (CAS No) 75-28-5 | No data available |
| 2,4,6-Tri(dimethylaminomethyl)phenol | (CAS No) 90-72-2 | Aquatic Acute Cat. 3; Aquatic Chronic Cat. 3 |
| Silica, amorphous, fumed, crystalline-free | (CAS No) 112945-52-5 | No data available |

## 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.

## SECTION 14: Transport information

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

In accordance with DOT and TDG

Not regulated

**Transport by sea**

In accordance with IMDG

Not regulated

**Transport by air**

In accordance with IATA

Not regulated

## 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 except for:

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.

| **2-Propenoic acid, 2-methyl-, methyl ester, polymer with** 1,1-dichloroethene and 2-propenenitrile **(25214-39-5)** | |
|---|---|
| EPA TSCA Regulatory Flag | 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)). |

| **Formaldehyde, polymer with 1,3-dimethylbenzene (26139-75-3)** | |
|---|---|
| EPA TSCA Regulatory Flag | 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)). |

| **Acrylonitrile (107-13-1)** | |
|---|---|
| Listed on the United States SARA Section 302 | |
| EPA TSCA Regulatory Flag | TP - TP - indicates a substance that is the subject of a proposed Section 4 test rule under TSCA. |
| CERCLA RQ | 100 lb |
| SARA Section 302 Threshold Planning Quantity (TPQ) | 10000 lb |
| SARA Section 313 - Emission Reporting | 0.1 % |

**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

| Acrylonitrile (107-13-1) | | | | |
|---|---|---|---|---|
| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | Non-significant risk level (NSRL) |
| Yes | No | No | No | 0.7 µg/day |

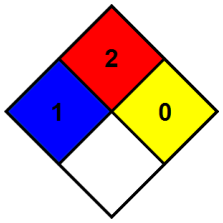
| Isobutane (75-28-5) |
|---|
| U.S. - New Jersey - Right to Know Hazardous Substance List |
| U.S. - Pennsylvania - RTK (Right to Know) List |

| Acrylonitrile (107-13-1) |
|---|
| U.S. - New Jersey - Right to Know Hazardous Substance List |
| U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List |
| U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances |
| U.S. - Pennsylvania - RTK (Right to Know) List |

## SECTION 16: Other information

**Date of issue** : 06/01/2015
**Revision date** : 01/25/2019
**Version** : 410-2019a
**Other information** : None.

**NFPA health hazard** : 1
**NFPA fire hazard** : 2
**NFPA reactivity** : 0




HMIS III Rating
**Health** : 1
**Flammability** : 2
**Physical** : 0

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