



# SAFETY DATA SHEET

## 1. Identification

|   |  |
|---|--|
| <b>Product identifier</b>                                     | <b>Val-Tex 80-HM, Val-Tex 80-HM-S</b>  |
| <b>Other means of identification</b>                          |  |
| <b>Synonyms</b>   | Includes sticks of all sizes and bulk packaging.   |
| <b>Recommended use</b>  | Valve lubricant and sealant.   |
| <b>Recommended restrictions</b>                               | None known.  |
| <b>Manufacturer/Importer/Supplier/Distributor information</b> |  |
| <b>Manufacturer/Supplier</b>                                  | CMC Materials; 15431 Vantage Pkwy E. Suite 210; Houston, Texas 77032; United States                  |
| <b>Telephone</b>  | 1.800.627.9771   |
| <b>E-mail</b>   | sales.val-tex@cmcmaterials.com   |
| <b>Representative</b>   | CMC Materials; Amber Business Centre; Riddings Alfreton Derbyshire DE55 4DA; United Kingdom          |
| <b>Telephone</b>  | +44 (0) 1773 844200  |
| <b>E-mail</b>   | sales.val-tex@cmcmaterials.com   |
| <b>Representative</b>   | CMC Materials; Les Vieilles Hayes; 50620 Saint Fromond; France                                       |
| <b>Telephone</b>  | +33 (0) 2 33 75 64 00  |
| <b>E-mail</b>   | sales.val-tex@cmcmaterials.com   |
| <b>Distributor</b>  | CMC Materials Sealweld Canada, INC.; Bay 106, 4116 64th Ave.S.E., Calgary, AB, T2C 2B3               |
| <b>Telephone</b>  | 1.800.661.8465   |
| <b>E-mail</b>   | sales.val-tex@cmcmaterials.com   |
| <b>Emergency phone number</b>                                 |  |
| <b>3E Global Incident Response Hotline</b>                    |  |
| <b>USA</b>  | +1.866.519.4752  |
| <b>International</b>  | +1.760.476.3962  |
| <b>Access code</b>  | 333035   |
| <b>CHEMTREC</b>   | For Dangerous Goods Incidents ONLY (spill, leak, fire, exposure or accident), call CHEMTREC 24/7 at: |
| <b>Canada, USA</b>  | +1.800.424.9300  |
| <b>International</b>  | +1.703.741.5970  |

## 2. Hazard(s) identification

|                                |  |
|--------------------------------|--|
| <b>Physical hazards</b>        | Not classified.  |
| <b>Health hazards</b>          | Not classified.  |
| <b>OSHA defined hazards</b>    | Not classified.  |
| <b>Label elements</b>          |  |
| <b>Hazard symbol</b>           | None.  |
| <b>Signal word</b>             | None.  |
| <b>Hazard statement</b>        | The mixture does not meet the criteria for classification. |
| <b>Precautionary statement</b> |  |
| <b>Prevention</b>              | Observe good industrial hygiene practices.                 |
| <b>Response</b>                | Wash hands after handling.                                 |

|  |   |
|--|---|
| <b>Storage</b>                                   | Store away from incompatible materials.   |
| <b>Disposal</b>                                  | Dispose of waste and residues in accordance with local authority requirements.                |
| <b>Hazard(s) not otherwise classified (HNOC)</b> | None known.   |
| <b>Supplemental information</b>                  | After prolonged contact with highly porous materials, this product may spontaneously combust. |

### 3. Composition/information on ingredients

#### Mixtures

| <b>Chemical name</b> | <b>CAS number</b> | <b>%</b> |
|----------------------|-------------------|----------|
| Amorphous Silica     | 112945-52-5       | 9        |
| Molybdenum disulfide | 1317-33-5         | 1        |

**Composition comments** All concentrations are in percent by weight unless otherwise indicated. Components not listed are either non-hazardous or are below reportable limits.

### 4. First-aid measures

|   |   |
|---|---|
| <b>Inhalation</b>   | Move to fresh air. Call a physician if symptoms develop or persist.   |
| <b>Skin contact</b>   | Wash off with soap and water. Get medical attention if irritation develops and persists.  |
| <b>Eye contact</b>  | Rinse with water. Get medical attention if irritation develops and persists.  |
| <b>Ingestion</b>  | Rinse mouth. Get medical attention if symptoms occur.   |
| <b>Most important symptoms/effects, acute and delayed</b>                     | Direct contact with eyes may cause temporary irritation.  |
| <b>Indication of immediate medical attention and special treatment needed</b> | Treat symptomatically.  |
| <b>General information</b>  | Remove and isolate contaminated clothing and shoes. Clothing contaminated with this product may spontaneously catch fire if improperly discarded. 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. |

### 5. Fire-fighting measures

|  |  |
|--|--|
| <b>Suitable extinguishing media</b>                                  | Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).   |
| <b>Unsuitable extinguishing media</b>                                | Do not use water jet as an extinguisher, as this will spread the fire.   |
| <b>Specific hazards arising from the chemical</b>                    | Porous material such as rags, paper, insulation, or organic clay may spontaneously combust when wetted with this material. During fire, gases hazardous to health may be formed. Combustion products may include: carbon oxides, metal oxide, silicon oxides, sulfur oxides. |
| <b>Special protective equipment and precautions for firefighters</b> | Self-contained breathing apparatus and full protective clothing must be worn in case of fire.  |
| <b>Fire fighting equipment/instructions</b>                          | Do not point solid water stream directly into burning oil to avoid spreading. Water may be ineffective in fighting an oil fire unless used by experienced firefighters.  |
| <b>Specific methods</b>  | Use standard firefighting procedures and consider the hazards of other involved materials.   |
| <b>General fire hazards</b>  | Will burn if involved in a fire. Spontaneous combustion can occur.   |

### 6. Accidental release measures

|  |   |
|--|---|
| <b>Personal precautions, protective equipment and emergency procedures</b> | Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.   |
| <b>Methods and materials for containment and cleaning up</b>               | The product is immiscible with water and will sediment in water systems. Stop the flow of material, if this is without risk. Contain the discharged material. Shovel the material into waste container. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS. Clean contaminated area with oil-removing material. Rags, steel wool, or waste contaminated with this product may spontaneously catch fire if improperly discarded. Used rags or other cleaning materials should be soaked with water and placed in a sealed container. |
| <b>Environmental precautions</b>   | Avoid discharge into drains, water courses or onto the ground.  |

## 7. Handling and storage

### Precautions for safe handling

Porous material such as rags, paper, insulation, or organic clay may spontaneously combust when wetted with this material. May auto-oxidize with sufficient heat generation to ignite if spread (as a thin film) or absorbed on porous or fibrous material. Contaminated rags and cloths must be put in fireproof containers for disposal. Observe good industrial hygiene practices.

### Conditions for safe storage, including any incompatibilities

Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

### Occupational exposure limits

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

| Components                           | Type | Value                | Form        |
|--------------------------------------|------|----------------------|-------------|
| Molybdenum disulfide (CAS 1317-33-5) | PEL  | 15 mg/m <sup>3</sup> | Total dust. |

#### US. OSHA Table Z-3 (29 CFR 1910.1000)

| Components                         | Type | Value                             |
|------------------------------------|------|-----------------------------------|
| Amorphous Silica (CAS 112945-52-5) | TWA  | 0.8 mg/m <sup>3</sup><br>20 mppcf |

#### US. ACGIH Threshold Limit Values

| Components                           | Type | Value                                       | Form  |
|--------------------------------------|------|---|---|
| Molybdenum disulfide (CAS 1317-33-5) | TWA  | 3 mg/m <sup>3</sup><br>10 mg/m <sup>3</sup> | Respirable fraction.<br>Inhalable fraction. |

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

| Components                         | Type | Value               |
|------------------------------------|------|---------------------|
| Amorphous Silica (CAS 112945-52-5) | TWA  | 6 mg/m <sup>3</sup> |

### Biological limit values

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

### Exposure guidelines

Occupational Exposure Limits are not relevant to the current physical form of the product.

### Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

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

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

#### Skin protection

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

#### Skin protection

**Other** Wear suitable protective clothing.

#### Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

#### Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

### General hygiene considerations

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.

## 9. Physical and chemical properties

### Appearance

**Physical state** Solid.

**Form** Semi-solid.

**Color** Black.

**Odor** Slight castor oil smell.

**Odor threshold** Property has not been measured.

**pH** Property has not been measured.

|   |  |
|---|--|
| <b>Melting point/freezing point</b>                 | Property has not been measured.            |
| <b>Initial boiling point and boiling range</b>      | Property has not been measured.            |
| <b>Flash point</b>                                  | > 520 °F (> 271.111 °C) Cleveland Open Cup |
| <b>Evaporation rate</b>                             | Property has not been measured.            |
| <b>Flammability (solid, gas)</b>                    | Will burn if involved in a fire.           |
| <b>Upper/lower flammability or explosive limits</b> |  |
| <b>Explosive limit - lower (%)</b>                  | Property has not been measured.            |
| <b>Explosive limit - upper (%)</b>                  | Property has not been measured.            |
| <b>Vapor pressure</b>                               | Property has not been measured.            |
| <b>Vapor density</b>                                | Property has not been measured.            |
| <b>Relative density</b>                             | 1.1 - 1.4 (H20=1)                          |
| <b>Solubility(ies)</b>                              |  |
| <b>Solubility (water)</b>                           | Insoluble in water.                        |
| <b>Partition coefficient (n-octanol/water)</b>      | Property has not been measured.            |
| <b>Auto-ignition temperature</b>                    | Property has not been measured.            |
| <b>Decomposition temperature</b>                    | Property has not been measured.            |
| <b>Viscosity</b>                                    | Property has not been measured.            |
| <b>Other information</b>                            |  |
| <b>Density</b>                                      | Property has not been measured.            |
| <b>Explosive properties</b>                         | Not explosive.                             |
| <b>Kinematic viscosity</b>                          | Property has not been measured.            |
| <b>Oxidizing properties</b>                         | Not oxidizing.                             |

## 10. Stability and reactivity

|   |  |
|---|--|
| <b>Reactivity</b>                         | The product is stable and non-reactive under normal conditions of use, storage and transport.                              |
| <b>Chemical stability</b>                 | Material is stable under normal conditions.  |
| <b>Possibility of hazardous reactions</b> | Porous material such as rags, paper, insulation, or organic clay may spontaneously combust when wetted with this material. |
| <b>Conditions to avoid</b>                | Contact with incompatible materials.   |
| <b>Incompatible materials</b>             | Strong oxidizers.  |
| <b>Hazardous decomposition products</b>   | No hazardous decomposition products are known.   |

## 11. Toxicological information

### Information on likely routes of exposure

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | Vapor from heated material or mist may cause respiratory irritation. |
| <b>Skin contact</b> | Prolonged skin contact may cause temporary irritation.               |
| <b>Eye contact</b>  | Direct contact with eyes may cause temporary irritation.             |
| <b>Ingestion</b>    | May cause discomfort if swallowed.                                   |

### Information on toxicological effects

**Acute toxicity** Not expected to be acutely toxic.

| Components | Species | Test Results |
|------------|---------|--------------|
|------------|---------|--------------|

Molybdenum disulfide (CAS 1317-33-5)

#### Acute

#### Inhalation

LC50

Rat

> 2820 mg/m3, 4 hours

**Skin corrosion/irritation** Prolonged skin contact may cause temporary irritation.

**Serious eye damage/eye irritation** Direct contact with eyes may cause temporary irritation.

## Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** This product is not expected to cause skin sensitization.

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

**Carcinogenicity** Not classifiable as to carcinogenicity to humans.

### IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

### NTP Report on Carcinogens

Not listed.

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

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

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

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

**Aspiration hazard** Due to the physical form of the product it is not expected to be an aspiration hazard.

**Further information** The product contains a substance with endocrine disrupting properties.

## 12. Ecological information

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

**Persistence and degradability** No data is available on the degradability of this product.

**Bioaccumulative potential** No data available on bioaccumulation.

**Mobility in soil** The product is insoluble in water. Expected to have low mobility in soil.

**Other adverse effects** The product contains a substance with endocrine disrupting properties.

## 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Porous combustible material contaminated with this product must be collected in a tightly closed metal container. Cover with water, or a solution of water and detergent. Store in a cool place. Protect from heat and direct sunlight.

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

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

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

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

## 14. Transport information

### DOT

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

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

## 15. Regulatory information

**US federal regulations** This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

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

Not regulated.

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

Not listed.

**SARA 304 Emergency release notification**

Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)**

Not listed.

**Toxic Substances Control Act (TSCA)**

All components of the mixture on the TSCA 8(b) inventory are designated "active".

**Superfund Amendments and Reauthorization Act of 1986 (SARA)****SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312 Hazardous chemical** No**SARA 313 (TRI reporting)**

Not regulated.

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

Not regulated.

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

Not regulated.

**Safe Drinking Water Act (SDWA)**

Contains component(s) regulated under the Safe Drinking Water Act.

**US state regulations****US. Massachusetts RTK - Substance List**

Amorphous Silica (CAS 112945-52-5)

Molybdenum disulfide (CAS 1317-33-5)

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

Not listed.

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

Amorphous Silica (CAS 112945-52-5)

**US. Rhode Island RTK**

Not regulated.

**California Proposition 65**California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).**International Inventories**

| Country(s) or region | Inventory name   | On inventory (yes/no)* |
|----------------------|--|------------------------|
| Australia            | Australian Inventory of Industrial Chemicals (AICIS)                   | Yes                    |
| Canada               | Domestic Substances List (DSL)   | Yes                    |
| Canada               | Non-Domestic Substances List (NDSL)                                    | No                     |
| China                | Inventory of Existing Chemical Substances in China (IECSC)             | Yes                    |
| Europe               | European Inventory of Existing Commercial Chemical Substances (EINECS) | Yes                    |
| Europe               | European List of Notified Chemical Substances (ELINCS)                 | No                     |
| Japan                | Inventory of Existing and New Chemical Substances (ENCS)               | No                     |
| Korea                | Existing Chemicals List (ECL)  | Yes                    |
| New Zealand          | New Zealand Inventory  | Yes                    |
| Philippines          | Philippine Inventory of Chemicals and Chemical Substances (PICCS)      | Yes                    |
| Taiwan               | Taiwan Chemical Substance Inventory (TCSI)                             | Yes                    |

| Country(s) or region        | Inventory name                                | On inventory (yes/no)* |
|-----------------------------|---|------------------------|
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes                    |

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)  
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

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

**Issue date** 03-November-2017

**Revision date** 06-August-2021

**Version #** 02

**NFPA ratings**



**Disclaimer**

CMC Materials Val-Tex cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.