1 Identification

- Product identifier
- Trade name: FS-ONE MAX
  Hilti Firestop Filler Mastic CFS-FIL
- Relevant identified uses of the substance or mixture and uses advised against: No further relevant information available.
- Application of the substance / the mixture: Construction chemicals
- Details of the supplier of the safety data sheet
  - Manufacturer/Supplier:
    Hilti, Inc.
    5400 South 122nd East Ave.
    US-Tulsa, OK 74146
    Phone: (800) 879-8000
    Fax: (800) 879-7000
    Español: (800) 879-5000
- Information department:
  - chemicals.hse@hilti.com
  - see section 16
- Emergency telephone number:
  - Chem-Trec
    Tel.: 1 800 424 9300
  - Schweizerisches Toxikologisches Informationszentrum - 24 h Service
    Tel.: 0041 / 44 251 51 51 (international)

2 Hazard(s) identification

- Classification of the substance or mixture: The product is not classified according to the Globally Harmonized System (GHS).
  
  - Label elements
  - GHS label elements: Void
  - Hazard pictograms: Void
  - Signal word: Void
  - Hazard statements: Void
  - Classification system: 
  - NFPA ratings (scale 0-4)
    - Health = 0
    - Fire = 0
    - Reactivity = 0

3 Composition/information on ingredients

- Chemical characterization: Mixtures
- Description: 
- Dangerous components: Void
- Additional information: For the wording of the listed risk phrases refer to section 16.

4 First-aid measures

- Description of first aid measures
  - General information: No special measures required.
  - After inhalation: Take affected persons into fresh air and keep quiet.
  - After skin contact: Immediately wash with water and soap and rinse thoroughly.
  - After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
  - After swallowing: Seek immediate medical advice.
- Information for doctor
  - Most important symptoms and effects, both acute and delayed: No further relevant information available.
  - Indication of any immediate medical attention and special treatment needed: No further relevant information available.

5 Fire-fighting measures

- Extinguishing media
  - Suitable extinguishing agents: CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards arising from the substance or mixture
  - In case of fire, the following can be released: Carbon monoxide (CO)
40.0.7 Carbondioxide (CO2)

- Advice for firefighters
  - Ensure adequate ventilation

- Protective equipment

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
  - Ensure adequate ventilation
  - Wear protective clothing.
    - Particular danger of slipping on leaked/spilled product.
  - Environmental precautions: Do not allow product to reach sewage system or any water course.
  - Methods and material for containment and cleaning up:
    - Pick up mechanically.
    - Dispose contaminated material as waste according to item 13.

- Reference to other sections
  - See Section 7 for information on safe handling.
  - See Section 8 for information on personal protection equipment.
  - See Section 13 for disposal information.

7 Handling and storage

- Handling
  - No special measures required.
  - Information about protection against explosions and fires: No special measures required.

- Conditions for safe storage, including any incompatibilities

- Storage
  - Requirements to be met by storerooms and receptacles: keep containers securely closed and dry, store at 5 - 25 °C / 41 - 77 °F
  - Information about storage in one common storage facility: Not required.
  - Further information about storage conditions: None.

- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Control parameters
  - Components with limit values that require monitoring at the workplace:
    - The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
  - Additional information: The lists that were valid during the creation were used as basis.

- Exposure controls
  - Personal protective equipment
    - General protective and hygienic measures
      - Avoid contact with the eyes and skin.
      - Keep away from foodstuffs, beverages and feed.
      - Wash hands before breaks and at the end of work.
      - Breathing equipment: Not necessary if room is well-ventilated.
    - Protection of hands:
      - Protective gloves.
        - The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
        - Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
          - EN 374
        - Material of gloves
          - Synthetic gloves
            - The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
          - Penetration time of glove material
            - The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
          - For the permanent contact gloves made of the following materials are suitable: Nitrile rubber, NBR
          - Eye protection:
            - Tightly sealed goggles.
              - EN 166 + EN 170
9 Physical and chemical properties

- Information on basic physical and chemical properties
  - General Information
    - Appearance:
      - Form: Pasty
      - Color: Red
      - Odor: Characteristic
      - Odour threshold: Not determined.
    - pH-value: Not determined.
  - Change in condition
    - Melting point/Melting range: Not determined.
    - Boiling point/Boiling range: 100 °C (212 °F)
  - Flash point: Not applicable
  - Flammability (solid, gaseous) Not applicable.
  - Ignition temperature:
    - Decomposition temperature: Not determined.
  - Auto igniting: Product is not self-igniting.
  - Danger of explosion:
    - Product does not present an explosion hazard.
  - Explosion limits:
    - Lower: Not determined.
    - Upper: Not determined.
  - Vapor pressure at 20 °C (68 °F): 23 hPa (17 mm Hg)
  - Density: Not determined
  - Relative density: Not determined.
  - Vapour density: Not determined.
  - Evaporation rate: Not determined.
  - Solubility in / Miscibility with
    - Water: Not miscible or difficult to mix
    - Partition coefficient (n-octanol/water): Not determined.
  - Viscosity:
    - dynamic: Not determined.
    - kinematic: Not determined.
  - Solvent content:
    - Organic solvents: 1.0 %
    - Water: 18.5 %
  - Other information
    - VOC Content: 9 g/l (EPA Method 24)

10 Stability and reactivity

- Reactivity
- Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions: No dangerous reactions known.
- Conditions to avoid: No further relevant information available.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- Information on toxicological effects
- Acute toxicity:
- Primary irritant effect:
  - on the skin: No irritant effect.
  - on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
Additional toxicological information:
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

- IARC (International Agency for Research on Cancer)
  None of the ingredients is listed.

- NTP (National Toxicology Program)
  None of the ingredients is listed

- OSHA-Ca (Occupational Safety & Health Administration)
  None of the ingredients is listed.

12 Ecological information

- Toxicity
  - Aquatic toxicity: No further relevant information available.
  - Persistence and degradability: No further relevant information available.
  - Behavior in environmental systems:
    - Bioaccumulative potential: No further relevant information available.
  - Mobility in soil: No further relevant information available.
  - Results of PBT and vPvB assessment
    - PBT: Not applicable.
    - vPvB: Not applicable.
  - Other adverse effects: No further relevant information available.

13 Disposal considerations

- Waste treatment methods
  - Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
  - European waste catalogue:
    - 08 00 00
    - 08 04 00
    - 08 04 10

- Uncleaned packagings
  - Recommendation: Dispose of packaging according to regulations on the disposal of packagings.

14 Transport information

- UN-Number
  - DOT, ADR, IMDG, IATA: Void

- UN proper shipping name
  - DOT, ADR, IMDG, IATA: Void

- Transport hazard class(es)
  - DOT, ADR, IMDG, IATA
    - Class: Void

- Packing group
  - DOT, ADR, IMDG, IATA: Void

- Environmental hazards:
  - Marine pollutant: No

- Special precautions for user
  - Not applicable.

- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
  - Not applicable.

- UN "Model Regulation": -

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
  - Sara

  - Section 355 (Extremely hazardous substances): None of the ingredients is listed.

  - Section 313 (Specific toxic chemical listings):
    - None of the ingredients are listed.

  - TSCA (Toxic Substances Control Act):
    - All ingredients are listed.
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- **Proposition 65:**
  - **Chemicals known to cause cancer:**
    None of the ingredients are listed.

- **Cancerogenity categories**
  - **EPA (Environmental Protection Agency)**
    None of the ingredients is listed.
  - **TLV (Threshold Limit Value established by ACGIH)**
    None of the ingredients is listed.
  - **MAK (German Maximum Workplace Concentration)**
    None of the ingredients is listed.
  - **NIOSH-Ca (National Institute for Occupational Safety and Health)**
    None of the ingredients is listed.

- **Chemical safety assessment:** not required.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:**
  - Hilti Corporation
  - Business Unit Chemicals
  - Quality/Safety/Environment
  - FL-9494 Schaan / Liechtenstein

  chemicals.hse@hilti.com
  Tel.: +423 234 3004
  FAX.: +423 234 3462

- **Date of preparation / last revision** 03/06/2015 / -

- **Abbreviations and acronyms:**
  - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  - IMDG: International Maritime Code for Dangerous Goods
  - DOT: US Department of Transportation
  - IATA: International Air Transport Association
  - ACGIH: American Conference of Governmental Industrial Hygienists
  - EINECS: European Inventory of Existing Commercial Chemical Substances
  - ELINCS: European List of Notified Chemical Substances
  - CAS: Chemical Abstracts Service (division of the American Chemical Society)
  - NFPA: National Fire Protection Association (USA)

- * Data compared to the previous version altered.