

## Section 1. Identification

**Product name** : FORSA™ SCW237 SCALE INHIBITOR  
™ a trademark of Baker Hughes Incorporated.

**Product code** : SCW237

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

**Identified uses** : Scale Inhibitor

**Print date** : 4/20/2017

**Validation date** : 4/20/2017

**Version** : 2

**Supplier's details** : Baker Petrolite LLC  
12645 W. Airport Blvd.  
Sugar Land, TX 77478  
For Product Information/SDSs Call: 800-231-3606  
(8:00 a.m. - 5:00 p.m. CST, Monday - Friday) 281-276-5400

**Emergency telephone number (with hours of operation)** : CHEMTREC: 800-424-9300 (U.S. 24 hour)  
Baker Petrolite: 800-231-3606  
(001)281-276-5400  
CANUTEC: 613-996-6666 (Canada 24 hours)  
CHEMTREC Int'l 01-703-527-3887 (International 24 hour)

## Section 2. Hazards identification

**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classification of the substance or mixture** : FLAMMABLE LIQUIDS - Category 3  
ACUTE TOXICITY (oral) - Category 4  
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (optic nerve) - Category 1

### GHS label elements

**Hazard pictograms** :



**Signal word** : Danger

**Hazard statements** : Flammable liquid and vapor.  
Harmful if swallowed.  
Causes damage to organs. (optic nerve)

### Precautionary statements

**Prevention** :

Wear protective gloves: > 8 hours (breakthrough time): Nitrile or Neoprene gloves. PVC gloves.. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

## Section 2. Hazards identification

- Response** : IF exposed: Call a POISON CENTER or physician. IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
- Storage** : Store locked up. Store in a well-ventilated place. Keep cool.
- Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.
- Supplemental label elements** : Avoid contact with skin and clothing. Wash thoroughly after handling.
- Hazards not otherwise classified** : Prolonged or repeated contact may dry skin and cause irritation.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

| Ingredient name | %       | CAS number |
|-----------------|---------|------------|
| Methanol        | 10 - 20 | 67-56-1    |

## Section 4. First aid measures

### Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Continue to rinse for at least 10 minutes. Check for and remove any contact lenses. Get medical attention. If necessary, call a poison center or physician.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : Wash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : Defatting to the skin. May cause skin dryness and irritation.
- Ingestion** : Harmful if swallowed.

#### Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : irritation,dryness,cracking
- Ingestion** : No specific data.

## Section 4. First aid measures

### Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

- Suitable extinguishing media** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.
- Unsuitable extinguishing media** : Do not use water jet.

**Specific hazards arising from the chemical** : Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

**Hazardous thermal decomposition products** : carbon dioxide, carbon monoxide, nitrogen oxides, phosphorus oxides, halogenated compounds, metal oxide/oxides

**Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

## Section 6. Accidental release measures

- Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Dike spill area and do not allow product to reach sewage system or surface or ground water. Notify any reportable spill to authorities. (See section 12 for environmental risks and 13 for disposal information.) Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

If RQ (Reportable Quantity) is exceeded, report to National Spill Response Office at 1-800-424-8802.

## Section 7. Handling and storage

### Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits



## Section 9. Physical and chemical properties

|                                                     |                                                                                                                                 |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| <b>Flash point</b>                                  | : Closed cup: 33°C (91.4°F) [SFCC ASTM D-3828]                                                                                  |
| <b>Burning time</b>                                 | : Not applicable.                                                                                                               |
| <b>Burning rate</b>                                 | : Not applicable.                                                                                                               |
| <b>Evaporation rate</b>                             | : Not available.                                                                                                                |
| <b>Flammability (solid, gas)</b>                    | : Highly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat. |
| <b>Lower and upper explosive (flammable) limits</b> | : Not available.                                                                                                                |
| <b>Vapor pressure</b>                               | : 37.9 kPa (284.4 mm Hg (5.5 psig)) @ 54.44°C (130 F) (Reid)                                                                    |
| <b>Vapor density</b>                                | : >1 [Air = 1]                                                                                                                  |
| <b>Relative density</b>                             | : 1.2 (16°C)                                                                                                                    |
| <b>Density</b>                                      | : 10 (lbs/gal)                                                                                                                  |
| <b>Solubility in water</b>                          | : Soluble                                                                                                                       |
| <b>Partition coefficient: n-octanol/water</b>       | : Not available.                                                                                                                |
| <b>Auto-ignition temperature</b>                    | : Not available.                                                                                                                |
| <b>Decomposition temperature</b>                    | : Not available.                                                                                                                |
| <b>Viscosity</b>                                    | : Dynamic (16°C): 17 cP                                                                                                         |
| <b>VOC</b>                                          | : Not available.                                                                                                                |
| <b>Pour Point</b>                                   | : Not available.                                                                                                                |

## Section 10. Stability and reactivity

|                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reactivity</b>                         | : No specific test data related to reactivity available for this product or its ingredients.                                                                                                                                                                                                                                                                                                                                                  |
| <b>Chemical stability</b>                 | : The product is stable.                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Possibility of hazardous reactions</b> | : Under normal conditions of storage and use, hazardous reactions will not occur.                                                                                                                                                                                                                                                                                                                                                             |
| <b>Conditions to avoid</b>                | : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.                                                                                                                                                                                                          |
| <b>Incompatible materials</b>             | : Reactive or incompatible with the following materials: oxidizing materials and reducing materials.<br>Methanol is incompatible and may react with acetyl bromide, alkyl aluminum solutions, beryllium hydride, boron trichloride, nitric acid, cyanuric chloride, dichloromethane, diethylzinc, metals (granulated forms of aluminum and magnesium – including aluminum and zinc salts), phosphorus III oxide, and potassium tert-butoxide. |
| <b>Hazardous decomposition products</b>   | : Under normal conditions of storage and use, hazardous decomposition products should not be produced.                                                                                                                                                                                                                                                                                                                                        |

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

| Product/ingredient name | Result               | Species | Dose        | Exposure |
|-------------------------|----------------------|---------|-------------|----------|
| Methanol                | LC50 Inhalation Gas. | Rat     | 145000 ppm  | 1 hours  |
|                         | LC50 Inhalation Gas. | Rat     | 64000 ppm   | 4 hours  |
|                         | LD50 Dermal          | Rabbit  | 15800 mg/kg | -        |
|                         | LD50 Oral            | Rat     | 5600 mg/kg  | -        |

#### Irritation/Corrosion

No applicable toxicity data

#### Sensitization

No applicable toxicity data

#### Mutagenicity

No applicable toxicity data

#### Carcinogenicity

No applicable toxicity data

#### Reproductive toxicity

No applicable toxicity data

#### Teratogenicity

No applicable toxicity data

#### Specific target organ toxicity (single exposure)

| Name     | Category   | Route of exposure | Target organs |
|----------|------------|-------------------|---------------|
| Methanol | Category 1 | Oral              | optic nerve   |

#### Specific target organ toxicity (repeated exposure)

Not applicable.

#### Aspiration hazard

Not available.

**Information on the likely routes of exposure** : Routes of entry anticipated: Dermal, Inhalation.

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Potential chronic health effects

**General** : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Teratogenicity** : No known significant effects or critical hazards.

**Developmental effects** : No known significant effects or critical hazards.



## Section 11. Toxicological information

**Fertility effects** : No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

| Route               | ATE value   |
|---------------------|-------------|
| Oral                | 653.9 mg/kg |
| Dermal              | 2000 mg/kg  |
| Inhalation (vapors) | 20 mg/l     |

## Section 12. Ecological information

### Toxicity

| Product/ingredient name | Result                               | Species                       | Exposure |
|-------------------------|--------------------------------------|-------------------------------|----------|
| Methanol                | Acute EC50 16.912 mg/l Marine water  | Algae - Ulva pertusa          | 96 hours |
|                         | Acute EC50 10000000 µg/l Fresh water | Daphnia - Daphnia magna       | 48 hours |
|                         | Acute LC50 2500000 µg/l Marine water | Crustaceans - Crangon crangon | 48 hours |
|                         | Acute LC50 100 mg/l Fresh water      | Fish - Pimephales promelas    | 96 hours |
|                         | Chronic NOEC 9.96 mg/l Marine water  | Algae - Ulva pertusa          | 96 hours |
|                         |                                      |                               |          |

### Persistence and degradability





Not available.

**Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

|                                   | DOT Classification                                                                       | TDG Classification                                                                       | IMDG                                                                                      | IATA                                                                                       |
|-----------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| <b>UN number</b>                  | UN1993                                                                                   | UN1993                                                                                   | UN1993                                                                                    | UN1993                                                                                     |
| <b>UN proper shipping name</b>    | FLAMMABLE LIQUID, N.O.S. (Contains: Methanol)                                            | FLAMMABLE LIQUID, N.O.S. (Contains: Methanol)                                            | FLAMMABLE LIQUID, N.O.S. (Contains: Methanol)                                             | FLAMMABLE LIQUID, N.O.S. (Contains: Methanol)                                              |
| <b>Transport hazard class(es)</b> | 3<br> | 3<br> | 3<br> | 3<br> |
| <b>Packing group</b>              | III                                                                                      | III                                                                                      | III                                                                                       | III                                                                                        |



## Section 14. Transport information

| Environmental hazards         | No. | No.                                                                                                                         | No.                                         | No. |
|-------------------------------|-----|-----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-----|
| <b>Additional information</b> | -   | Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3). | <b>Emergency schedules (EmS)</b><br>F-E S-D | -   |

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to Annex II of MARPOL and the IBC Code** : Not available.

**DOT Reportable Quantity** Methanol, 3333 gal of this product.

**Marine pollutant** Not available.

**North-America NAERG** : 128

## Section 15. Regulatory information

**U.S. Federal regulations** : **TSCA 12(b) one-time export:** No products were found.  
**TSCA 12(b) annual export notification:** No products were found.  
**United States inventory (TSCA 8b):** All components are listed or exempted.  
**Clean Water Act (CWA) 307:** No products were found.  
**Clean Water Act (CWA) 311:** Formaldehyde

### United States - Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs) :

| List name                                                                    | Status | Ingredient name | Name on list | Conc.   |
|------------------------------------------------------------------------------|--------|-----------------|--------------|---------|
| United States - Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs) | Listed | Methanol        | Methanol     | 10 - 20 |
| United States - Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs) | Listed | Formaldehyde    | Formaldehyde | 0 - 0.1 |

### SARA 302/304

| Name         | %     | EHS  | SARA 302 TPQ |           | SARA 304 RQ |           |
|--------------|-------|------|--------------|-----------|-------------|-----------|
|              |       |      | (lbs)        | (gallons) | (lbs)       | (gallons) |
| Formaldehyde | < 0.1 | Yes. | 500          | 6.7       | 100         | 1.3       |

### SARA 311/312

**Classification** : Fire hazard  
Immediate (acute) health hazard

### SARA 313

|                              | Product name | CAS number | %       |
|------------------------------|--------------|------------|---------|
| <b>Supplier notification</b> | Methanol     | 67-56-1    | 10 - 20 |

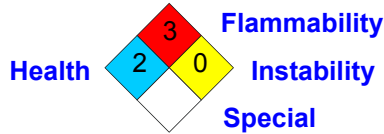
## Section 15. Regulatory information

### Canada

Canada (CEPA DSL): : All components are listed or exempted.

## Section 16. Other information

### National Fire Protection Association (U.S.A.)



### History

Date of printing : 4/20/2017

### Notice to reader

**NOTE:** The information on this SDS is based on data which is considered to be accurate. Baker Hughes, however, makes no guarantees or warranty, either expressed or implied of the accuracy or completeness of this information.

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