



# SRF LIMITED

Issue: 02

Rev: 01

Revision Date: 01.09.2020

## SAFETY DATA SHEET

### ANHYDROUS HYDROFLUORIC ACID

#### SECTION 1: IDENTIFICATION OF SUBSTANCE OR MIXTURE AND COMPANY

|     |   |   |  |                |
|-----|---|---|--|----------------|
| 1.1 | <b>Product Name</b>                         | : | ANHYDROUS HYDROFLUORIC ACID  |                |
|     | <b>Trade Names / Synonyms</b>               | : | Hydrofluoric acid; Fluoric Acid, Hydrogen Fluoride, Anhydrous, HFA, Hydrogen Fluoride, HF Acid     |                |
|     | <b>CAS Number</b>                           | : | 7664-39-3  |                |
| 1.2 | <b>Manufacturer/supplier</b>                | : | SRF Limited, D-2/1 GIDC Phase-II, PCPIR, Dahej, Tal. Vagra, Dist. Bharuch 392 130, Gujarat (India) |                |
|     | <b>Further information obtainable from:</b> | : | Vikas Yadav<br>e-mail vikas.yadav1@srf.com<br>Mobile no.-+91-9978445120                            |                |
| 1.3 | <b>Emergency Call</b>                       |   |  |                |
|     | <b>Emergency Contact</b>                    | : | Mr. Balwada<br>Ashish  | +91-9099002602 |
|     | <b>Primary Contact</b>                      | : | Mr.Prabhat<br>Kumar  | +91-7069057087 |
|     | <b>SDS Contact</b>                          | : | Mr. Sharma Anil<br>Kumar   | +91-9687694067 |

#### Relevant Identified Uses Of The Substance Or Mixture And Uses Advised Against

**Identified Uses:** : Industrial Use, Manufacture of substances

**Uses advised against:** : Do not use product for anything outside of the above specified uses

#### SECTION 2: HAZARDS IDENTIFICATION

2.1 This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

|   |   |
|---|---|
| <b>Classification of the substance or mixture</b> | GASES UNDER PRESSURE - Liquefied gas<br>ACUTE TOXICITY (inhalation) - Category 3<br>SKIN CORROSION - Category 1<br>SERIOUS EYE DAMAGE - Category 1<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1 |
|---|---|

GHS label element  
Hazard Pictogram :



Single word: **Danger**

**Hazard Statement(s):**

H300 Fatal if swallowed.  
 H310 Fatal in contact with skin.  
 H314 Causes severe skin burns and eye damage  
 H330 Fatal if inhaled.

**Precautinary Statement(s):**

P260 Do not breathe gas, vapours  
 P262 Do not get in eyes, on skin, or on clothing  
 P280 Wear protective gloves/protective clothing/eye protection/face protection  
 P281 Use personal protective equipment as required  
 P304+P340+P315 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get immediate medical advice/attention  
 P305+P351+P338+P315 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.  
 P303+P361+P353+P315 IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothes. Rinse skin with water/shower. Get immediate medical advice/attention.

**SECTION 3: COMPOSITION & INFORMATION ON INGREDIENTS**

| Chemical name     | Common name and synonyms                            | Formula | CAS No.   | Concentration % (w/w) |
|-------------------|---|---------|-----------|-----------------------|
| Hydrofluoric acid | Hydrofluoric acid; Fluoric Acid, Hydrogen Fluoride, | HF      | 7664-39-3 | >= 99.9 - <= 100      |

**SECTION 3: FIRST AID MEASURES**

**4.1 Description of first aid measures**

**General advice** : Remove victim to uncontaminated area wearing self-contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing stopped.

**Inhalation** : Remove victim to uncontaminated area wearing self-contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing stopped.

**Skin contact** : Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a

**Eye contact** : physician. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.

**Ingestion** : As this product is a gas, refer to the inhalation section

**4.2 Most Important Symptoms and Effects, Both Acute and Delayed:**  
**Potential acute health effects**

Eye contact : Causes serious eye damage.  
 Inhalation : Toxic if inhaled.  
 Ingestion : As this product is a gas, refer to the inhalation section

Skin contact : Causes severe burns.  
 Frostbite : Try to warm up the frozen tissues and seek medical attention.

**Over-exposure signs/symptoms**

|              |  |
|--------------|--|
| Eye contact  | Adverse symptoms may include the following:, pain or irritation, watering, redness             |
| Inhalation   | No specific data   |
| Skin contact | Adverse symptoms may include the following:, pain or irritation, redness, blistering may occur |
| Ingestion    | Adverse symptoms may include the following:, stomach pains                                     |

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

|                            |  |
|----------------------------|--|
| Notes to physician         | : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled..   |
| Specific treatments        | : No specific treatment.   |
| Protection of first-aiders | No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves |

**SECTION 5. FIRE FIGHTING MEASURE**

**General Fire Hazards** : Heat may cause the containers to explode.

5.1 **Extinguishing media Suitable extinguishing media:** : Use an extinguishing agent suitable for the surrounding fire.

|            |  |   |  |
|------------|--|---|--|
| <b>5.2</b> | <b>Special hazards arising from the substance or mixture</b>     | : | Contains gas under pressure. In a fire or if heated, a pressure increase will occur and the container may burst or explode.  |
|            | <b>Hazardous Combustion Products:</b>                            | : | Decomposition products may include the following materials: halogenated compounds  |
|            | <b>Advice for firefighters Special fire fighting procedures:</b> | : | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode   |
|            | <b>Special protective equipment for firefighters:</b>            | : | 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. Contact supplier immediately for specialist advice. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. |

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

|            |  |   |  |
|------------|--|---|--|
| <b>6.1</b> | <b>Personal precautions, protective equipment and emergency procedures</b> | : | Evacuate area. Use self-contained breathing apparatus and chemically protective clothing. Ensure adequate air ventilation. Monitor concentration of released product. Prevent from entering sewers, basements and work pits, or any place where its accumulation can be dangerous. |
| <b>6.2</b> | <b>Environmental Precautions</b>   | : | Ensure emergency procedures to deal with accidental gas releases are in place to avoid contamination of the environment. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air)  |
| <b>6.3</b> | <b>Methods and material for containment and cleaning up</b>                | : | Ventilate area. Hose down area with water. Wash contaminated equipment or sites of leaks with copious quantities of water.   |
| <b>6.4</b> | <b>Reference to other sections</b>   | : | Refer to sections 8 and 13.  |

**SECTION 7: HANDLING & STORAGE**

|            |                                       |   |  |
|------------|---------------------------------------|---|--|
| <b>7.1</b> | <b>Precautions for safe handling:</b> | : | Put on appropriate personal protective equipment (see Section 8). Contains gas under pressure. Do not get in eyes or on skin or clothing. Use only with adequate ventilation.<br>Wear appropriate respirator when ventilation is inadequate. Do not puncture or incinerate container. Use equipment rated for cylinder pressure. Close valve after each use and when empty. Protect cylinders from physical damage; do not drag, roll, slide, or |
|------------|---------------------------------------|---|--|

- drop. Use a suitable hand truck for cylinder movement.  
Empty containers retain product residue and can be hazardous. Do not breathe gas
- 7.2 **Conditions for safe storage, including any incompatibilities:** : Store in accordance with local regulations. Store in a segregated and approved area. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Cylinder temperatures should not exceed 52 °C (125 °F). Store locked up. Keep container tightly closed and sealed until ready for use. See Section 10 for incompatible materials before handling or use
- 7.3 **Storage temperature** : Cylinder temperatures should not exceed 52 °C
- 7.4 **Storage period** : No data available

**SECTION 8 : EXPOSURE CONTROL / PERSONAL PROTECTION CONTROL PARAMETERS**

8.1 **Control parameters, e.g., occupational exposure limit values or biological limit values**

**Occupational Exposure Limits:**

| Component         | Exposure Limit   |
|-------------------|--|
| Hydrogen Fluoride | ACGIH TLV (United States, 3/2017).<br>Absorbed through skin. Notes: as F , C: 2 ppm, (as F)<br>TWA: 0.5 ppm, (as F) 8 hours.<br>NIOSH REL (United States, 10/2016). Notes: as F<br>CEIL: 5 mg/m <sup>3</sup> , (as F) 15 minutes.<br>CEIL: 6 ppm, (as F) 15 minutes.<br>TWA: 2.5 mg/m <sup>3</sup> , (as F) 10 hours.<br>TWA: 3 ppm, (as F) 10 hours.<br>OSHA PEL (United States, 6/2016). Notes: as F<br>TWA: 2.5 mg/m <sup>3</sup> , (as F) 8 hours.<br>OSHA PEL 1989 (United States, 3/1989). Notes: as F<br>STEL: 6 ppm, (as F) 15 minutes.<br>TWA: 3 ppm, (as F) 8 hours.<br>OSHA PEL Z2 (United States, 2/2013).<br>TWA: 3 ppm 8 hours |

8.2 **Exposure controls**

- Engineering controls** : A risk assessment should be conducted and documented in each work area to assess the risks related to the use of the product and to select the PPE that matches the relevant risk. The following recommendations should be considered. Product to be handled in a closed system and under strictly controlled conditions. Keep concentrations well below occupational exposure limits. Consider work permit system e.g. for maintenance activities. Preferably use

|   |   |  |
|---|---|--|
|   |   | <p>permanent leak-tight connections (eg. welded pipes). Systems under pressure should be regularly checked for leakages. Provide adequate general or local ventilation. Gas detectors should be used when toxic quantities may be released.</p>  |
| <b><u>Personal protective equipment</u></b> |   |  |
| <b>Respiratory protection</b>               | : | <p>Keep self-contained breathing apparatus readily available for emergency use., Use SCBA in the event of high concentrations, The selection of the Respiratory Protective Device (RPD) must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected RPD., When allowed by a risk assessment Respiratory Protective Equipment (RPE) may be used. Guideline: EN 136 Respiratory protective devices. Full face masks. Requirements, testing, marking Material: Filter E Guideline: EN 14387: Respiratory protective devices. Gas filter(s) and combined filter(s). Requirements, testing, marking</p> |
| <b>Hand protection</b>                      | : | <p>Advice: Wear working gloves and safety shoes while handling containers., Chemically resistant gloves complying with EN 374 should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Material: Fluor elastomer (FKM) Min. Breakthrough time: 480 min Glove thickness: 0,7 mm Guideline: EN 374-1/2/3 Protective gloves against chemicals and micro-organisms.</p>   |
| <b>Body protection</b>                      | : | <p>Protect eyes, face and skin from contact with product. Keep suitable chemically resistant protective clothing readily available for emergency use. Personal protective equipment for the body should be selected based on the task being performed and the risks involved. Guideline: EN 943: Protective clothing against liquid and gaseous chemicals, including liquid aerosols and solid particles. Wear working gloves and safety shoes while handling containers. EN ISO 20345 Personal protective equipment – Safety footwear.</p>  |
| <b>Eye/Faceprotection</b>                   | : | <p>Protect eyes, face and skin from liquid splashes. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Wear a face-shield when trans filling and breaking transfer connections. Safety eyewear, goggles or face-shield to EN166 should be used to avoid exposure to liquid splashes. Wear eye protection to EN 166 when using gases. Full-face mask recommended Guideline: EN 136 Respiratory protective devices. Full face masks. Requirements, testing, marking</p>   |
| <b>Protective Hygiene measures</b>          | : | <p>Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of</p>  |

the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Environmental exposure controls:** : Specific risk management measures are not required beyond good industrial hygiene and safety procedures. Refer to local regulations for restriction of emissions to the atmosphere. See section 13 for specific methods for waste gas treatment.

## SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

|   |   |  |
|---|---|--|
| Appearance                              | : | Colourless gas. Gives off white fumes in moist air |
| Physical state                          | : | Liquid.  |
| Colour                                  | : | Colourless   |
| Odor                                    | : | Pungent  |
| Molecular Weight                        | : | 20, 01 g/mol                                       |
| pH (15 aqueous solution)                | : | Specific data not available                        |
| Melting point/freezing point            | : | -83 °C   |
| Initial boiling point and boiling range | : | 19.5 °C  |
| Evaporation Rate                        | : | Not available.                                     |
| Flash point                             | : | Product does not sustain combustion.               |
| Flammability (solid, gas)               | : | Not applicable                                     |
| Viscosity                               | : | Not applicable                                     |
| Partition coefficient; n-octanol/water  | : | No data available                                  |
| Vapour pressure                         | : | 0.5 (psig)   |
| Vapour density                          | : | 0.7 (Air = 1)                                      |
| Relative density, gas (Air=1):          | : | 2.6  |
| Relative density, liquid (Water=1)      | : | 0.97   |
| Specific Volume (ft <sup>3</sup> /lb)   | : | 19.3424  |

|  |   |                 |
|--|---|-----------------|
| Flammability Range                         | : | Not detemined   |
| Auto-ignition temperature                  | : | Not detemined   |
| Critical temperature                       | : | 188 °C          |
| Water solubility                           | : | completely      |
| Partition coefficient n-octanol/water(ies) | : | Not applicable. |

## SECTION 10: STABILITY & REACTIVITY

|      |   |   |   |
|------|---|---|---|
| 10.1 | Reactivity                                | : | None known, based on information available  |
| 10.1 | <b>Reactivity</b>                         |   | Unreactive under normal conditions.   |
| 10.2 | <b>Chemical stability</b>                 | : | Stable under ordinary conditions of use and storage.  |
| 10.3 | <b>Possibility of hazardous reactions</b> | : | Under normal conditions of storage and use, hazardous reactions will not occur.   |
| 10.4 | <b>Conditions to avoid</b>                | : | Avoid moisture in installation systems  |
| 10.5 | <b>Incompatible materials</b>             | : | Reacts with most metals in the presence of moisture, liberating hydrogen, an extremely flammable gas. With water causes rapid corrosion of some metals. Moisture. Reacts with water to form corrosive acids. May react violently with alkalis. For material compatibility, see latest version of ISO-11114. |
| 10.6 | <b>Hazardous decomposition products</b>   | : | Under normal conditions of storage and use, hazardous decomposition products should not be produced.  |

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Actuate Toxixity

| Product/ingredient name | Result               | Species | Dose     | Exposure |
|-------------------------|----------------------|---------|----------|----------|
| Hydrogen fluoride       | LC50 Inhalation Gas. | Rat     | 1276 ppm | 1 hours  |

#### Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|-------------------------|--------|---------|-------|----------|-------------|
|-------------------------|--------|---------|-------|----------|-------------|



|                   |                        |       |   |                |   |
|-------------------|------------------------|-------|---|----------------|---|
| Hydrogen fluoride | Eyes - Severe irritant | Human | - | 50 milligrams  | - |
|                   | Skin - Severe irritant | Rat   | - | 3 minutes 50 % | - |

|  |   |
|--|---|
| Sensitization                                      | This substance is not classified as a sensitizer.   |
| Mutagenicity                                       | No information available.   |
| Reproductive toxicity                              | No information available  |
| Teratogenicity                                     | No information available.   |
| Specific target organ toxicity (single exposure)   | Category 1  |
| Specific target organ toxicity (repeated exposure) | <b>Value type:</b> LOAEL Value: 50 ppm Species: Mouse Organ: Skeletal system. Read across<br><b>Value type:</b> NOAEL Value: 880 µg/kg Species: Rat Organ: Skeletal system Read across. |
| Aspiration hazard                                  | Not available   |
| Carcinogenicity                                    | Not available.  |

**Potential acute health effects**

Eye contact : Causes serious eye irritation  
 Inhalation : Toxic if inhaled.  
 Skin contact : Causes severe burns  
 Ingestion : As this product is a gas, refer to the inhalation section

**Symptoms related to the physical, chemical and toxicological characteristics**

Eye contact : Adverse symptoms may include the following:, pain, watering, redness  
 Inhalation : No specific data.  
 Skin contact : Adverse symptoms may include the following:, pain or irritation, redness, blistering may occur  
 Ingestion : Adverse symptoms may include the following:, stomach pains

**Potential chronic health effects**

Not available

General : Significant effects or critical hazards.  
 Developmental effects : No known significant effects or critical hazards.  
 Fertility effects : No known significant effects or critical hazards.

**SECTION 12 : ECOLOGICAL INFORMATION**

**12.1- Toxicity**

| Product /ingredient name | Result         | Species                             | Exposure |
|--------------------------|----------------|-------------------------------------|----------|
| Hydrogen fluoride        | 10.5 mg/l      | Fresh water Species                 | 72 hours |
|                          | EC50 - 97 mg/l | Daphnia magna (Water flea)          | 48 hours |
|                          | LC50- 43 mg/l  | Algae (Salt water)                  | 96 hours |
|                          | LC50 =3.7mg/L  | Rainbow trout (Oncorhynchus mykiss) | 21 DAYS  |

**12.2-Persistence and degradability**

|                |  |
|----------------|--|
| Abiotic:       | Air - neutralisation by natural alkalinity. Water/soil - ionization/neutralisation of inorganic and organic materials. Water/soil - complexation/precipitation of inorganic materials. Degradation products: aluminium/iron/calcium/phosphate complexes and/or precipitates as a function of pH (Fluorides). |
| Biodegradation | Methods for determining the biological degradability are not applicable for inorganic substances   |

**12.3-Bioaccumulative potential**

Fluoride accumulates in aquatic organisms predominantly in the exoskeleton of crustacean and in the skeleton of fish; no accumulation was reported for edible tissue

**12.4-Mobility in Soil**

Adsorption on mineral soil constituents.

Transport between environmental compartments

|               |  |
|---------------|--|
| Medium: Air   | Mobility in aerosol form.                      |
| Medium: Water | Considerable mobility, Considerable solubility |

**12.5- Results of PBT and vPvB assessment**

Not classified as PBT or vPvB.

**12.6-Other adverse effect**

No known significant effects or critical hazards.




**SECTION 13: DISPOSAL CONSIDERATIONS**

**13.1 Waste Treatment Methods**

**Product** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any

**Contaminated packaging** : regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Empty SRF-owned pressure vessels should be returned to SRF 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. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

**SECTION 14: TRANSPORT INFORMATION**

| ITEM   | DOT   | IMDG  | IATA  |
|--|---|---|---|
| UN number                                    | 1052  | 1052  | 1052  |
| Proper shipping name                         | HYDROGEN FLUORIDE, ANHYDROUS  | HYDROGEN FLUORIDE, ANHYDROUS  | HYDROGEN FLUORIDE, ANHYDROUS  |
| Transport hazard class(es)/ Labelling Number | <br>8 (6.1) | <br>8 (6.1) | <br>8 (6.1) |
| Packaging Group                              | I   | I   | I   |
| Environmental hazards                        | No  | YES<br>Marine pollutant   | No  |

**Additional information**

Other information : No supplementary information available  
 Special transport precautions : 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.

**15. REGULATORY INFORMATION**

**15.1 US Federal regulations**

|   |  |
|---|--|
| US Federal regulations  | TSCA 8(a) CDR Exempt/Partial exemption: Not determined |
|   | Commerce control list precursor: Hydrofluoric acid     |
|   | Clean Water Act (CWA) 311: Hydrofluoric acid           |
| Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) | Listed   |
| Clean Air Act Section 602 Class I Substances                  | Not listed   |
| Clean Air Act Section 602 Class II Substances                 | Not listed   |
| DEA List I Chemicals (Precursor Chemicals)                    | Not listed   |
| DEA List II Chemicals (Essential Chemicals)                   | Not listed   |



**SARA 302/304**

| Name              | %   | EHS | SARA 302 TPQ |           | SARA 304 RQ |           |
|-------------------|-----|-----|--------------|-----------|-------------|-----------|
|                   |     |     | (Lbs)        | (gallons) | (lbs)       | (gallons) |
| Hydrogen fluoride | 100 | Yes | 100          | 100       | 100         | -         |

|                 |                   |
|-----------------|-------------------|
| SARA 302/304 RQ | 100 lbs / 45.4 kg |
|-----------------|-------------------|

| SARA 311/312   |   |
|----------------|---|
| Classification | : Acute Health Hazard<br>Chronic Health Hazard<br>Reactivity Hazard |

**SARA 313**

| Component         | CAS-No    | Weight % |                                 |
|-------------------|-----------|----------|---------------------------------|
| Hydrogen fluoride | 7664-39-3 | 100%     | Form R – Reporting requirements |
| Hydrogen fluoride | 7664-39-3 | 100%     | Supplier notification           |

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

**State Regulations**

|               |                          |
|---------------|--------------------------|
| Massachusetts | This material is listed. |
| New York      | This material is listed  |
| New Jersey    | This material is listed  |
| Pennsylvania  | This material is listed  |

|        |                                |
|--------|--------------------------------|
| CERCLA | 100 lbs ( Reportable Quantity) |
|--------|--------------------------------|

|                           |  |
|---------------------------|--|
| California Proposition 65 | This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm. |
|---------------------------|--|

**15.2 International regulations**

| National Inventory      | Status                               |
|-------------------------|--------------------------------------|
| Australia - AICS        | This material is listed or exempted  |
| TSCA                    | This material is listed              |
| Canada - DSL            | This material is listed or exempted  |
| Europe - EINEC / ELINCS | This material is listed or exempted  |
| Japan - ENCS            | This material is listed or exempted. |
| Japan - ISHL            | Not determined.                      |
| China                   | Not determined                       |
| Taiwan                  | This material is listed or exempted  |
| Korea - KECI            | This material is listed or exempted  |
| New Zealand - NZIoC     | This material is listed or exempted  |
| Philippines             | This material is listed or exempted  |



---

|          |                 |
|----------|-----------------|
| Thailand | Not determined. |
|----------|-----------------|

---

## SECTION 16: OTHER INFORMATION

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. SRF Limited-Chemical business shall not be held liable for any damage resulting from handling or from contact with the above product