

FC Emit® II Plus Specialty Drug Calibrator &amp; Controls Buprenorphine

SDS #: 10718700

**Section 1. Identification**

**Product identifier** : FC Emit® II Plus Specialty Drug Calibrator & Controls Buprenorphine

**Product code** : 9S529UL, 9S549UL, 9S569UL, 9S589UL, 9S609UL, 9S619UL, 10718700, 10718701, 10720049, 10720050, 10720051, 10720052

**Product type** : Liquid.

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

Not applicable.

**Manufactured/supplied** : Siemens Healthcare Diagnostics Inc.  
511 Benedict Avenue  
Tarrytown, NY 10591-5097 USA  
1-877-229-3711  
(800) 424-9300 (CHEMTREC) (24/365)

**Section 2. Hazards identification**

**OSHA/HCS status** : FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).  
FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).  
FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classification of the substance or mixture** : FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine SKIN SENSITIZATION - Category 1  
FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine SKIN SENSITIZATION - Category 1  
FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine SKIN SENSITIZATION - Category 1

**Additional information** : Potentially biohazardous material.  
Not available.

**GHS label elements****Hazard pictograms****Signal word**

: FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine Warning  
FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine Warning  
FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine Warning

## Section 2. Hazards identification

|                                    |                                                                     |                                                                                                                                                                                          |
|------------------------------------|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Hazard statements</b>           | : FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine | H317 - May cause an allergic skin reaction.                                                                                                                                              |
|                                    | : FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine | H317 - May cause an allergic skin reaction.                                                                                                                                              |
|                                    | : FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine   | H317 - May cause an allergic skin reaction.                                                                                                                                              |
| <b>Precautionary statements</b>    |                                                                     |                                                                                                                                                                                          |
| <b>Prevention</b>                  | : FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine | P280 - Wear protective gloves.<br><br>P261 - Avoid breathing vapor.<br>P272 (OSHA) - Contaminated work clothing must not be allowed out of the workplace.                                |
|                                    | : FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine | P280 - Wear protective gloves.<br><br>P261 - Avoid breathing vapor.<br>P272 (OSHA) - Contaminated work clothing must not be allowed out of the workplace.                                |
|                                    | : FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine   | P280 - Wear protective gloves.<br><br>P261 - Avoid breathing vapor.<br>P272 (OSHA) - Contaminated work clothing must not be allowed out of the workplace.                                |
|                                    |                                                                     |                                                                                                                                                                                          |
| <b>Response</b>                    | : FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine | P302 + P352 + P363 - IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse.<br>P333 + P313 - If skin irritation or rash occurs: Get medical attention. |
|                                    | : FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine | P302 + P352 + P363 - IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse.<br>P333 + P313 - If skin irritation or rash occurs: Get medical attention. |
|                                    | : FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine   | P302 + P352 + P363 - IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse.<br>P333 + P313 - If skin irritation or rash occurs: Get medical attention. |
| <b>Storage</b>                     | : FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine | Not applicable.                                                                                                                                                                          |
|                                    | : FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine | Not applicable.                                                                                                                                                                          |
|                                    | : FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine   | Not applicable.                                                                                                                                                                          |
| <b>Disposal</b>                    | : FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine | P501 - Dispose of contents and container in accordance with all local, regional, and national regulations.                                                                               |
|                                    | : FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine | P501 - Dispose of contents and container in accordance with all local, regional, and national regulations.                                                                               |
|                                    | : FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine   | P501 - Dispose of contents and container in accordance with all local, regional, and national regulations.                                                                               |
| <b>Supplemental label elements</b> | : FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine | None known.                                                                                                                                                                              |
|                                    | : FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine | None known.                                                                                                                                                                              |
|                                    | : FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine   | None known.                                                                                                                                                                              |
|                                    |                                                                     |                                                                                                                                                                                          |

## Section 2. Hazards identification

|                                         |                                                                     |             |
|-----------------------------------------|---------------------------------------------------------------------|-------------|
| <b>Hazards not otherwise classified</b> | : FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine | None known. |
|                                         | FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine   | None known. |
|                                         | FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine     | None known. |
|                                         |                                                                     |             |
|                                         |                                                                     |             |

## Section 3. Composition/information on ingredients

|                          |                                                                     |         |
|--------------------------|---------------------------------------------------------------------|---------|
| <b>Substance/mixture</b> | : FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine | Mixture |
|                          | FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine   | Mixture |
|                          | FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine     | Mixture |
|                          |                                                                     |         |
|                          |                                                                     |         |

| Ingredient name                                                                                            | %   | CAS number |
|------------------------------------------------------------------------------------------------------------|-----|------------|
| <b>FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine</b><br>3(2H)-Isothiazolone, 2-methyl- | 0.1 | 2682-20-4  |
| <b>FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine</b><br>3(2H)-Isothiazolone, 2-methyl- | 0.1 | 2682-20-4  |
| <b>FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine</b><br>3(2H)-Isothiazolone, 2-methyl-   | 0.1 | 2682-20-4  |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.**

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

### Description of necessary first aid measures

|                    |                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye contact</b> | : FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine | 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. Get medical attention if irritation occurs.                                                                                                                                                                                                           |
|                    | FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine   | 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. Get medical attention if irritation occurs.                                                                                                                                                                                                           |
|                    | FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine     | 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. Get medical attention if irritation occurs.                                                                                                                                                                                                           |
| <b>Inhalation</b>  | : FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine | 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. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position |

## Section 4. First aid measures

FC Emit® II Plus Specialty Drug Calibrator  
Positive Buprenorphine

and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

FC Emit® II Plus Specialty Drug Calibrators  
LV1-4 Buprenorphine

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. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Skin contact

: FC Emit® II Plus Specialty Drug Calibrator  
Negative Buprenorphine

Wash with plenty of soap and 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. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

FC Emit® II Plus Specialty Drug Calibrator  
Positive Buprenorphine

Wash with plenty of soap and 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. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

FC Emit® II Plus Specialty Drug Calibrators  
LV1-4 Buprenorphine

Wash with plenty of soap and 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. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

## Section 4. First aid measures

### Ingestion

: FC Emit® II Plus Specialty Drug Calibrator  
Negative Buprenorphine

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. 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. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

FC Emit® II Plus Specialty Drug Calibrator  
Positive Buprenorphine

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. 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. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

FC Emit® II Plus Specialty Drug Calibrators  
LV1-4 Buprenorphine

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. 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. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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

#### Potential acute health effects

## Section 4. First aid measures

|                     |                                                                     |                                                   |
|---------------------|---------------------------------------------------------------------|---------------------------------------------------|
| <b>Eye contact</b>  | : FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine | No known significant effects or critical hazards. |
|                     | : FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine | No known significant effects or critical hazards. |
|                     | : FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine   | No known significant effects or critical hazards. |
|                     |                                                                     |                                                   |
| <b>Inhalation</b>   | : FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine | No known significant effects or critical hazards. |
|                     | : FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine | No known significant effects or critical hazards. |
|                     | : FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine   | No known significant effects or critical hazards. |
|                     |                                                                     |                                                   |
| <b>Skin contact</b> | : FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine | May cause an allergic skin reaction.              |
|                     | : FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine | May cause an allergic skin reaction.              |
|                     | : FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine   | May cause an allergic skin reaction.              |
|                     |                                                                     |                                                   |
| <b>Ingestion</b>    | : FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine | No known significant effects or critical hazards. |
|                     | : FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine | No known significant effects or critical hazards. |
|                     | : FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine   | No known significant effects or critical hazards. |
|                     |                                                                     |                                                   |

### Over-exposure signs/symptoms

|                     |                                                                     |                                                                      |
|---------------------|---------------------------------------------------------------------|----------------------------------------------------------------------|
| <b>Eye contact</b>  | : FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine | No specific data.                                                    |
|                     | : FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine | No specific data.                                                    |
|                     | : FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine   | No specific data.                                                    |
|                     |                                                                     |                                                                      |
| <b>Inhalation</b>   | : FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine | No specific data.                                                    |
|                     | : FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine | No specific data.                                                    |
|                     | : FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine   | No specific data.                                                    |
|                     |                                                                     |                                                                      |
| <b>Skin contact</b> | : FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine | Adverse symptoms may include the following:<br>irritation<br>redness |
|                     | : FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine | Adverse symptoms may include the following:<br>irritation<br>redness |
|                     | : FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine   | Adverse symptoms may include the following:<br>irritation<br>redness |
|                     |                                                                     |                                                                      |
| <b>Ingestion</b>    | : FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine | No specific data.                                                    |
|                     | : FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine | No specific data.                                                    |
|                     | : FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine   | No specific data.                                                    |
|                     |                                                                     |                                                                      |

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

|                            |                                                                                                                             |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| <b>Notes to physician</b>  | : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| <b>Specific treatments</b> | : No specific treatment.                                                                                                    |

## Section 4. First aid measures

- 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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

- Suitable extinguishing media** : In case of fire, use water spray (fog), foam or dry chemical.
- Unsuitable extinguishing media** : None known.

- Specific hazards arising from the chemical** : In a fire or if heated, a pressure increase will occur and the container may burst.

- Hazardous thermal decomposition products** : No specific data.

- 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.

- 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. 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

- Small spill** : Stop leak if without risk. Move containers from spill area. 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. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. 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.

## Section 7. Handling and storage

### Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. 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 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. 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

None.

- Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

- Hygiene measures** : 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. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

## Section 8. Exposure controls/personal protection

- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties

|                                               |                                                                        |                                                       |
|-----------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------|
| <b>Physical state</b>                         | : FC Emit® II Plus Specialty Drug Calibrator<br>Negative Buprenorphine | Liquid.                                               |
|                                               | : FC Emit® II Plus Specialty Drug Calibrator<br>Positive Buprenorphine | Liquid.                                               |
|                                               | : FC Emit® II Plus Specialty Drug Calibrators<br>LV1-4 Buprenorphine   | Liquid.                                               |
| <b>Color</b>                                  | : FC Emit® II Plus Specialty Drug Calibrator<br>Negative Buprenorphine | Yellowish.                                            |
|                                               | : FC Emit® II Plus Specialty Drug Calibrator<br>Positive Buprenorphine | Yellowish.                                            |
|                                               | : FC Emit® II Plus Specialty Drug Calibrators<br>LV1-4 Buprenorphine   | Not relevant/applicable due to nature of the product. |
| <b>Odor</b>                                   | : FC Emit® II Plus Specialty Drug Calibrator<br>Negative Buprenorphine | Not relevant/applicable due to nature of the product. |
|                                               | : FC Emit® II Plus Specialty Drug Calibrator<br>Positive Buprenorphine | Not relevant/applicable due to nature of the product. |
|                                               | : FC Emit® II Plus Specialty Drug Calibrators<br>LV1-4 Buprenorphine   | Not relevant/applicable due to nature of the product. |
| <b>pH</b>                                     | : FC Emit® II Plus Specialty Drug Calibrator<br>Negative Buprenorphine | 6.2                                                   |
|                                               | : FC Emit® II Plus Specialty Drug Calibrator<br>Positive Buprenorphine | 6.2                                                   |
|                                               | : FC Emit® II Plus Specialty Drug Calibrators<br>LV1-4 Buprenorphine   | 6.2                                                   |
| <b>Flash point</b>                            | : FC Emit® II Plus Specialty Drug Calibrator<br>Negative Buprenorphine | [Product does not sustain combustion.]                |
|                                               | : FC Emit® II Plus Specialty Drug Calibrator<br>Positive Buprenorphine | [Product does not sustain combustion.]                |
|                                               | : FC Emit® II Plus Specialty Drug Calibrators<br>LV1-4 Buprenorphine   | [Product does not sustain combustion.]                |
| <b>Flammability (solid, gas)</b>              | : FC Emit® II Plus Specialty Drug Calibrator<br>Negative Buprenorphine | Not relevant/applicable due to nature of the product. |
|                                               | : FC Emit® II Plus Specialty Drug Calibrator<br>Positive Buprenorphine | Not relevant/applicable due to nature of the product. |
|                                               | : FC Emit® II Plus Specialty Drug Calibrators<br>LV1-4 Buprenorphine   | Not relevant/applicable due to nature of the product. |
| <b>Relative density</b>                       | : FC Emit® II Plus Specialty Drug Calibrator<br>Negative Buprenorphine | 1                                                     |
|                                               | : FC Emit® II Plus Specialty Drug Calibrator<br>Positive Buprenorphine | 1                                                     |
|                                               | : FC Emit® II Plus Specialty Drug Calibrators<br>LV1-4 Buprenorphine   | 1.007                                                 |
| <b>Solubility in water</b>                    | : FC Emit® II Plus Specialty Drug Calibrator<br>Negative Buprenorphine | Not relevant/applicable due to nature of the product. |
|                                               | : FC Emit® II Plus Specialty Drug Calibrator<br>Positive Buprenorphine | Not relevant/applicable due to nature of the product. |
|                                               | : FC Emit® II Plus Specialty Drug Calibrators<br>LV1-4 Buprenorphine   | Not relevant/applicable due to nature of the product. |
| <b>Partition coefficient: n-octanol/water</b> | : FC Emit® II Plus Specialty Drug Calibrator<br>Negative Buprenorphine | Not available.                                        |
|                                               | : FC Emit® II Plus Specialty Drug Calibrator<br>Positive Buprenorphine | Not available.                                        |
|                                               | : FC Emit® II Plus Specialty Drug Calibrators<br>LV1-4 Buprenorphine   | Not available.                                        |

## Section 9. Physical and chemical properties

|                                  |                                                                        |                 |
|----------------------------------|------------------------------------------------------------------------|-----------------|
| <b>Auto-ignition temperature</b> | : FC Emit® II Plus Specialty Drug Calibrator<br>Negative Buprenorphine | Not available.  |
|                                  | FC Emit® II Plus Specialty Drug Calibrator<br>Positive Buprenorphine   | Not available.  |
|                                  | FC Emit® II Plus Specialty Drug Calibrators<br>LV1-4 Buprenorphine     | Not available.  |
| <b>Viscosity</b>                 | : FC Emit® II Plus Specialty Drug Calibrator<br>Negative Buprenorphine | Not available.  |
|                                  | FC Emit® II Plus Specialty Drug Calibrator<br>Positive Buprenorphine   | Not available.  |
|                                  | FC Emit® II Plus Specialty Drug Calibrators<br>LV1-4 Buprenorphine     | Not available.  |
| <b>Aerosol product</b>           |                                                                        |                 |
| <b>Type of aerosol</b>           | : FC Emit® II Plus Specialty Drug Calibrator<br>Negative Buprenorphine | Not applicable. |
|                                  | FC Emit® II Plus Specialty Drug Calibrator<br>Positive Buprenorphine   | Not applicable. |
|                                  | FC Emit® II Plus Specialty Drug Calibrators<br>LV1-4 Buprenorphine     | Not applicable. |

## Section 10. Stability and reactivity

|                                           |                                                                                                        |                                                                                            |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| <b>Reactivity</b>                         | : FC Emit® II Plus Specialty Drug Calibrator<br>Negative Buprenorphine                                 | No specific test data related to reactivity available for this product or its ingredients. |
|                                           | FC Emit® II Plus Specialty Drug Calibrator<br>Positive Buprenorphine                                   | No specific test data related to reactivity available for this product or its ingredients. |
|                                           | FC Emit® II Plus Specialty Drug Calibrators<br>LV1-4 Buprenorphine                                     | No specific test data related to reactivity available for this product or its ingredients. |
| <b>Chemical stability</b>                 | : FC Emit® II Plus Specialty Drug Calibrator<br>Negative Buprenorphine                                 | The product is stable.                                                                     |
|                                           | FC Emit® II Plus Specialty Drug Calibrator<br>Positive Buprenorphine                                   | The product is stable.                                                                     |
|                                           | FC Emit® II Plus Specialty Drug Calibrators<br>LV1-4 Buprenorphine                                     | 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>                | : No specific data.                                                                                    |                                                                                            |
| <b>Incompatible materials</b>             | : No specific data.                                                                                    |                                                                                            |
| <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

Not available.

|                           |                                                                        |                |
|---------------------------|------------------------------------------------------------------------|----------------|
| <b>Conclusion/Summary</b> | : FC Emit® II Plus Specialty Drug Calibrator<br>Negative Buprenorphine | Not available. |
|                           | FC Emit® II Plus Specialty Drug Calibrator<br>Positive Buprenorphine   | Not available. |
|                           | FC Emit® II Plus Specialty Drug<br>Calibrators LV1-4 Buprenorphine     | Not available. |

#### Irritation/Corrosion

Not available.

## Section 11. Toxicological information

### Conclusion/Summary

|                    |                                                                        |                |
|--------------------|------------------------------------------------------------------------|----------------|
| <b>Skin</b>        | : FC Emit® II Plus Specialty Drug Calibrator<br>Negative Buprenorphine | Not available. |
|                    | FC Emit® II Plus Specialty Drug Calibrator<br>Positive Buprenorphine   | Not available. |
|                    | FC Emit® II Plus Specialty Drug<br>Calibrators LV1-4 Buprenorphine     | Not available. |
| <b>Eyes</b>        | : FC Emit® II Plus Specialty Drug Calibrator<br>Negative Buprenorphine | Not available. |
|                    | FC Emit® II Plus Specialty Drug Calibrator<br>Positive Buprenorphine   | Not available. |
|                    | FC Emit® II Plus Specialty Drug<br>Calibrators LV1-4 Buprenorphine     | Not available. |
| <b>Respiratory</b> | : FC Emit® II Plus Specialty Drug Calibrator<br>Negative Buprenorphine | Not available. |
|                    | FC Emit® II Plus Specialty Drug Calibrator<br>Positive Buprenorphine   | Not available. |
|                    | FC Emit® II Plus Specialty Drug<br>Calibrators LV1-4 Buprenorphine     | Not available. |

### Sensitization

Not available.

### Conclusion/Summary

|                    |                                                                        |                |
|--------------------|------------------------------------------------------------------------|----------------|
| <b>Skin</b>        | : FC Emit® II Plus Specialty Drug Calibrator<br>Negative Buprenorphine | Not available. |
|                    | FC Emit® II Plus Specialty Drug Calibrator<br>Positive Buprenorphine   | Not available. |
|                    | FC Emit® II Plus Specialty Drug<br>Calibrators LV1-4 Buprenorphine     | Not available. |
| <b>Respiratory</b> | : FC Emit® II Plus Specialty Drug Calibrator<br>Negative Buprenorphine | Not available. |
|                    | FC Emit® II Plus Specialty Drug Calibrator<br>Positive Buprenorphine   | Not available. |
|                    | FC Emit® II Plus Specialty Drug<br>Calibrators LV1-4 Buprenorphine     | Not available. |

### Mutagenicity

Not available.

|                           |                                                                        |                |
|---------------------------|------------------------------------------------------------------------|----------------|
| <b>Conclusion/Summary</b> | : FC Emit® II Plus Specialty Drug Calibrator<br>Negative Buprenorphine | Not available. |
|                           | FC Emit® II Plus Specialty Drug Calibrator<br>Positive Buprenorphine   | Not available. |
|                           | FC Emit® II Plus Specialty Drug<br>Calibrators LV1-4 Buprenorphine     | Not available. |

### Carcinogenicity

Not available.

|                           |                                                                        |                |
|---------------------------|------------------------------------------------------------------------|----------------|
| <b>Conclusion/Summary</b> | : FC Emit® II Plus Specialty Drug Calibrator<br>Negative Buprenorphine | Not available. |
|                           | FC Emit® II Plus Specialty Drug Calibrator<br>Positive Buprenorphine   | Not available. |
|                           | FC Emit® II Plus Specialty Drug<br>Calibrators LV1-4 Buprenorphine     | Not available. |

### Reproductive toxicity

Not available.

## Section 11. Toxicological information

**Conclusion/Summary** : FC Emit® II Plus Specialty Drug Calibrator Not available.  
 Negative Buprenorphine  
 FC Emit® II Plus Specialty Drug Calibrator Not available.  
 Positive Buprenorphine  
 FC Emit® II Plus Specialty Drug Not available.  
 Calibrators LV1-4 Buprenorphine

### Teratogenicity

Not available.

**Conclusion/Summary** : FC Emit® II Plus Specialty Drug Calibrator Not available.  
 Negative Buprenorphine  
 FC Emit® II Plus Specialty Drug Calibrator Not available.  
 Positive Buprenorphine  
 FC Emit® II Plus Specialty Drug Not available.  
 Calibrators LV1-4 Buprenorphine

### Specific target organ toxicity (single exposure)

| Name                                                                                                       | Category   | Route of exposure | Target organs                |
|------------------------------------------------------------------------------------------------------------|------------|-------------------|------------------------------|
| <b>FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine</b><br>3(2H)-Isothiazolone, 2-methyl- | Category 3 | Not applicable.   | Respiratory tract irritation |
| <b>FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine</b><br>3(2H)-Isothiazolone, 2-methyl- | Category 3 | Not applicable.   | Respiratory tract irritation |
| <b>FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine</b><br>3(2H)-Isothiazolone, 2-methyl-   | Category 3 | Not applicable.   | Respiratory tract irritation |

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

**Information on the likely routes of exposure** : FC Emit® II Plus Specialty Drug Calibrator Not available.  
 Negative Buprenorphine  
 FC Emit® II Plus Specialty Drug Calibrator Not available.  
 Positive Buprenorphine  
 FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine Not available.

### Potential acute health effects

**Eye contact** : FC Emit® II Plus Specialty Drug Calibrator No known significant effects or critical hazards.  
 Negative Buprenorphine  
 FC Emit® II Plus Specialty Drug Calibrator No known significant effects or critical hazards.  
 Positive Buprenorphine  
 FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine No known significant effects or critical hazards.

**Inhalation** : FC Emit® II Plus Specialty Drug Calibrator No known significant effects or critical hazards.  
 Negative Buprenorphine  
 FC Emit® II Plus Specialty Drug Calibrator No known significant effects or critical hazards.  
 Positive Buprenorphine  
 FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine No known significant effects or critical hazards.

## Section 11. Toxicological information

|                     |                                                                     |                                                   |
|---------------------|---------------------------------------------------------------------|---------------------------------------------------|
| <b>Skin contact</b> | : FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine | May cause an allergic skin reaction.              |
|                     | : FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine | May cause an allergic skin reaction.              |
|                     | : FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine   | May cause an allergic skin reaction.              |
| <b>Ingestion</b>    | : FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine | No known significant effects or critical hazards. |
|                     | : FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine | No known significant effects or critical hazards. |
|                     | : FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine   | No known significant effects or critical hazards. |
|                     |                                                                     |                                                   |

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

|                     |                                                                     |                                                                      |
|---------------------|---------------------------------------------------------------------|----------------------------------------------------------------------|
| <b>Eye contact</b>  | : FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine | No specific data.                                                    |
|                     | : FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine | No specific data.                                                    |
|                     | : FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine   | No specific data.                                                    |
|                     |                                                                     |                                                                      |
| <b>Inhalation</b>   | : FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine | No specific data.                                                    |
|                     | : FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine | No specific data.                                                    |
|                     | : FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine   | No specific data.                                                    |
|                     |                                                                     |                                                                      |
| <b>Skin contact</b> | : FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine | Adverse symptoms may include the following:<br>irritation<br>redness |
|                     | : FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine | Adverse symptoms may include the following:<br>irritation<br>redness |
|                     | : FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine   | Adverse symptoms may include the following:<br>irritation<br>redness |
|                     |                                                                     |                                                                      |
|                     |                                                                     |                                                                      |
|                     |                                                                     |                                                                      |
| <b>Ingestion</b>    | : FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine | No specific data.                                                    |
|                     | : FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine | No specific data.                                                    |
|                     | : FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine   | No specific data.                                                    |
|                     |                                                                     |                                                                      |
|                     |                                                                     |                                                                      |

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

#### Short term exposure

|                                    |                                                                     |                |
|------------------------------------|---------------------------------------------------------------------|----------------|
| <b>Potential immediate effects</b> | : FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine | Not available. |
|                                    | : FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine | Not available. |
|                                    | : FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine   | Not available. |
|                                    |                                                                     |                |
| <b>Potential delayed effects</b>   | : FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine | Not available. |
|                                    | : FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine | Not available. |
|                                    | : FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine   | Not available. |
|                                    |                                                                     |                |

#### Long term exposure

## Section 11. Toxicological information

**Potential immediate effects** : FC Emit® II Plus Specialty Drug Calibrator Not available.  
Negative Buprenorphine

FC Emit® II Plus Specialty Drug Calibrator Not available.  
Positive Buprenorphine  
FC Emit® II Plus Specialty Drug Calibrators Not available.  
LV1-4 Buprenorphine

**Potential delayed effects** : FC Emit® II Plus Specialty Drug Calibrator Not available.  
Negative Buprenorphine

FC Emit® II Plus Specialty Drug Calibrator Not available.  
Positive Buprenorphine  
FC Emit® II Plus Specialty Drug Calibrators Not available.  
LV1-4 Buprenorphine

### Potential chronic health effects

Not available.

**Conclusion/Summary** : Not available. FC Emit® II Plus Specialty Drug Calibrator  
Negative Buprenorphine  
Not available. FC Emit® II Plus Specialty Drug Calibrator  
Positive Buprenorphine  
Not available. FC Emit® II Plus Specialty Drug  
Calibrators LV1-4 Buprenorphine

**General** : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

**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.

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

### Numerical measures of toxicity

#### Acute toxicity estimates

Not available.

**Interactive effects** : FC Emit® II Plus Specialty Drug Calibrator Not available.  
Negative Buprenorphine  
FC Emit® II Plus Specialty Drug Calibrator Not available.  
Positive Buprenorphine  
FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine Not available.

**Other information** : FC Emit® II Plus Specialty Drug Calibrator Not available.  
Negative Buprenorphine  
FC Emit® II Plus Specialty Drug Calibrator Not available.  
Positive Buprenorphine  
FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine Not available.

## Section 12. Ecological information

### Toxicity

## Section 12. Ecological information

| Product/ingredient name                                                                                    | Result                                                             | Species                                               | Exposure             |
|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------|----------------------|
| <b>FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine</b><br>3(2H)-Isothiazolone, 2-methyl- | Acute EC50 0.18 ppm Fresh water<br>Acute LC50 0.07 ppm Fresh water | Daphnia - Daphnia magna<br>Fish - Oncorhynchus mykiss | 48 hours<br>96 hours |
| <b>FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine</b><br>3(2H)-Isothiazolone, 2-methyl- | Acute EC50 0.18 ppm Fresh water<br>Acute LC50 0.07 ppm Fresh water | Daphnia - Daphnia magna<br>Fish - Oncorhynchus mykiss | 48 hours<br>96 hours |
| <b>FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine</b><br>3(2H)-Isothiazolone, 2-methyl-   | Acute EC50 0.18 ppm Fresh water<br>Acute LC50 0.07 ppm Fresh water | Daphnia - Daphnia magna<br>Fish - Oncorhynchus mykiss | 48 hours<br>96 hours |

**Conclusion/Summary** : FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine Not available.  
 FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine Not available.  
 FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine Not available.

### Persistence and degradability

**Conclusion/Summary** : FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine Not available.  
 FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine Not available.  
 FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine Not available.

### Bioaccumulative potential

Not available.

### Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine Not available.  
 FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine Not available.  
 FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine Not available.

**Mobility** : FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine Not available.  
 FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine Not available.  
 FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine Not available.

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

## Section 13. Disposal considerations

**Disposal methods** : 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 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. 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. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

### DOT Classification

**UN number** FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine Not regulated.  
FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine Not regulated.  
FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine Not regulated.

**UN proper shipping name** FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine -  
FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine -  
FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine -

**Transport hazard class(es)** FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine -  
FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine -  
FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine -

**Packing group** FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine -  
FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine -  
FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine -

**Environmental hazards** FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine No.  
FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine No.  
FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine No.

**Additional information** FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine -  
FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine -  
FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine -

### TDG Classification

## Section 14. Transport information

**UN number** FC Emit® II Plus Specialty Drug Calibrator Negative Not regulated.  
Buprenorphine  
FC Emit® II Plus Specialty Drug Calibrator Positive Not regulated.  
Buprenorphine  
FC Emit® II Plus Specialty Drug Calibrators LV1-4 Not regulated.  
Buprenorphine

**UN proper shipping name** FC Emit® II Plus Specialty Drug Calibrator Negative -  
Buprenorphine  
FC Emit® II Plus Specialty Drug Calibrator Positive -  
Buprenorphine  
FC Emit® II Plus Specialty Drug Calibrators LV1-4 -  
Buprenorphine

**Transport hazard class(es)** FC Emit® II Plus Specialty Drug Calibrator Negative -  
Buprenorphine  
FC Emit® II Plus Specialty Drug Calibrator Positive -  
Buprenorphine  
FC Emit® II Plus Specialty Drug Calibrators LV1-4 -  
Buprenorphine

**Packing group** FC Emit® II Plus Specialty Drug Calibrator Negative -  
Buprenorphine  
FC Emit® II Plus Specialty Drug Calibrator Positive -  
Buprenorphine  
FC Emit® II Plus Specialty Drug Calibrators LV1-4 -  
Buprenorphine

**Environmental hazards** FC Emit® II Plus Specialty Drug Calibrator Negative No.  
Buprenorphine  
FC Emit® II Plus Specialty Drug Calibrator Positive No.  
Buprenorphine  
FC Emit® II Plus Specialty Drug Calibrators LV1-4 No.  
Buprenorphine

**Additional information** FC Emit® II Plus Specialty Drug Calibrator Negative -  
Buprenorphine  
FC Emit® II Plus Specialty Drug Calibrator Positive -  
Buprenorphine  
FC Emit® II Plus Specialty Drug Calibrators LV1-4 -  
Buprenorphine

### ADR/RID

**UN number** FC Emit® II Plus Specialty Drug Calibrator Negative Not regulated.  
Buprenorphine  
FC Emit® II Plus Specialty Drug Calibrator Positive Not regulated.  
Buprenorphine  
FC Emit® II Plus Specialty Drug Calibrators LV1-4 Not regulated.  
Buprenorphine

**UN proper shipping name** FC Emit® II Plus Specialty Drug Calibrator Negative -  
Buprenorphine  
FC Emit® II Plus Specialty Drug Calibrator Positive -  
Buprenorphine  
FC Emit® II Plus Specialty Drug Calibrators LV1-4 -  
Buprenorphine

## Section 14. Transport information

|                                   |                                                                                                                                                                                                                                                        |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Transport hazard class(es)</b> | FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine -<br>FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine -<br>FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine -                                        |
| <b>Packing group</b>              | FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine -<br>FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine -<br>FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine -                                        |
| <b>Environmental hazards</b>      | FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine No.<br>FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine No.<br>FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine No.                                  |
| <b>Additional information</b>     | FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine -<br>FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine -<br>FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine -                                        |
| <b>IMDG</b>                       |                                                                                                                                                                                                                                                        |
| <b>UN number</b>                  | FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine Not regulated.<br>FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine Not regulated.<br>FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine Not regulated. |
| <b>UN proper shipping name</b>    | FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine -<br>FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine -<br>FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine -                                        |
| <b>Transport hazard class(es)</b> | FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine -<br>FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine -<br>FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine -                                        |
| <b>Packing group</b>              | FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine -<br>FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine -<br>FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine -                                        |

## Section 14. Transport information

|                                   |                                                                   |                |
|-----------------------------------|-------------------------------------------------------------------|----------------|
| <b>Environmental hazards</b>      | FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine | No.            |
|                                   | FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine | No.            |
|                                   | FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine   | No.            |
|                                   |                                                                   |                |
| <b>Additional information</b>     | FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine | -              |
|                                   | FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine | -              |
|                                   | FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine   | -              |
|                                   |                                                                   |                |
| <b>IATA</b>                       |                                                                   |                |
| <b>UN number</b>                  | FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine | Not regulated. |
|                                   | FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine | Not regulated. |
|                                   | FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine   | Not regulated. |
|                                   |                                                                   |                |
| <b>UN proper shipping name</b>    | FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine | -              |
|                                   | FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine | -              |
|                                   | FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine   | -              |
|                                   |                                                                   |                |
| <b>Transport hazard class(es)</b> | FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine | -              |
|                                   | FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine | -              |
|                                   | FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine   | -              |
|                                   |                                                                   |                |
| <b>Packing group</b>              | FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine | -              |
|                                   | FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine | -              |
|                                   | FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine   | -              |
|                                   |                                                                   |                |
| <b>Environmental hazards</b>      | FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine | No.            |
|                                   | FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine | No.            |
|                                   | FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine   | No.            |
|                                   |                                                                   |                |
| <b>Additional information</b>     | FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine | -              |
|                                   | FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine | -              |
|                                   | FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine   | -              |
|                                   |                                                                   |                |

## Section 14. Transport information

|                                     |                                                                      |                                                                                                                                                                                                                   |
|-------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Special precautions for user</b> | FC Emit® II Plus Specialty Drug Calibrator<br>Negative Buprenorphine | <b>Transport within user's premises:</b> 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. |
|                                     | FC Emit® II Plus Specialty Drug Calibrator<br>Positive Buprenorphine | <b>Transport within user's premises:</b> 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. |
|                                     | FC Emit® II Plus Specialty Drug<br>Calibrators LV1-4 Buprenorphine   | <b>Transport within user's premises:</b> 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

Proper shipping name :  
Ship type :  
Pollution category :

## Section 15. Regulatory information

**U.S. Federal regulations** : TSCA 8(a) CDR Exempt/Partial exemption: Not determined  
United States inventory (TSCA 8b): Not determined.  
Clean Water Act (CWA) 311: edetic acid

Clean Air Act Section 112 : Not listed  
(b) Hazardous Air  
Pollutants (HAPs)

Clean Air Act Section 602 : Not listed  
Class I Substances

Clean Air Act Section 602 : Not listed  
Class II Substances

DEA List I Chemicals : Not listed  
(Precursor Chemicals)

DEA List II Chemicals : Not listed  
(Essential Chemicals)

### SARA 302/304

#### Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

### SARA 311/312

Classification : Immediate (acute) health hazard

#### Composition/information on ingredients

## Section 15. Regulatory information

| Name                                                                                                       | %   | Fire hazard | Sudden release of pressure | Reactive | Immediate (acute) health hazard | Delayed (chronic) health hazard |
|------------------------------------------------------------------------------------------------------------|-----|-------------|----------------------------|----------|---------------------------------|---------------------------------|
| <b>FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine</b><br>3(2H)-Isothiazolone, 2-methyl- | 0.1 | No.         | No.                        | No.      | Yes.                            | No.                             |
| <b>FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine</b><br>3(2H)-Isothiazolone, 2-methyl- | 0.1 | No.         | No.                        | No.      | Yes.                            | No.                             |
| <b>FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine</b><br>3(2H)-Isothiazolone, 2-methyl-   | 0.1 | No.         | No.                        | No.      | Yes.                            | No.                             |

### State regulations

|                      |                                      |
|----------------------|--------------------------------------|
| <b>Massachusetts</b> | : None of the components are listed. |
| <b>New York</b>      | : None of the components are listed. |
| <b>New Jersey</b>    | : None of the components are listed. |
| <b>Pennsylvania</b>  | : None of the components are listed. |

### International regulations

|                                                                |                                                                     |            |
|----------------------------------------------------------------|---------------------------------------------------------------------|------------|
| <b>Chemical Weapons Convention List Schedule I Chemicals</b>   | : FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine | Not listed |
|                                                                | FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine   | Not listed |
|                                                                | FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine     | Not listed |
| <b>Chemical Weapons Convention List Schedule II Chemicals</b>  | : FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine | Not listed |
|                                                                | FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine   | Not listed |
|                                                                | FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine     | Not listed |
| <b>Chemical Weapons Convention List Schedule III Chemicals</b> | : FC Emit® II Plus Specialty Drug Calibrator Negative Buprenorphine | Not listed |
|                                                                | FC Emit® II Plus Specialty Drug Calibrator Positive Buprenorphine   | Not listed |
|                                                                | FC Emit® II Plus Specialty Drug Calibrators LV1-4 Buprenorphine     | Not listed |

## Section 16. Other information

### History

|                                       |             |
|---------------------------------------|-------------|
| <b>Date of issue/Date of revision</b> | : 8/17/2017 |
|---------------------------------------|-------------|

|                |        |
|----------------|--------|
| <b>Version</b> | : 1.03 |
|----------------|--------|

### Key to abbreviations

|                                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| : ATE = Acute Toxicity Estimate                                                                                                                       |
| BCF = Bioconcentration Factor                                                                                                                         |
| GHS = Globally Harmonized System of Classification and Labelling of Chemicals                                                                         |
| IATA = International Air Transport Association                                                                                                        |
| IBC = Intermediate Bulk Container                                                                                                                     |
| IMDG = International Maritime Dangerous Goods                                                                                                         |
| LogPow = logarithm of the octanol/water partition coefficient                                                                                         |
| MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) |
| UN = United Nations                                                                                                                                   |

## Section 16. Other information

Indicates information that has changed from previously issued version.