Hydrogen Fluoride
Product Stewardship Summary

Chemical Name: Hydrogen Fluoride
Synonyms: Anhydrous hydrofluoric acid; AHF; Hydrofluoric acid gas; Hydrofluoric acid; HF; Hydrofluoride, Fluoric acid
CAS Number: 7664-39-3
CAS Name: Hydrogen fluoride
EC (EINECS) Number: 231-634-8

- Honeywell is the world's largest producer of Hydrofluoric Acid (HF). In addition, we are the leader in safe and reliable HF transportation, HF handling training, and the development in HF medical treatment products.

- HF is an important industrial raw material used in the production of fluorocarbon refrigerants and blowing agents, in the manufacture of stainless steel, aluminum, and organic and inorganic chemicals. It is used in metal finishing, petroleum refining, mineral processing, glassmaking, and electronic components manufacture. HF is a High Production Volume (HPV) chemical produced at over 1,000,000 pounds annually.

- Although lower concentrations of HF are used in certain industrial and consumer cleaning compounds, Honeywell does not recommend its use in these applications because of the potential for harm if the product is used without proper protection or training.

- Due to the extremely hazardous properties of HF, the product should only be handled by users who have received appropriate training. For more information on HF and available training, please visit www.hfacid.com.

- Anhydrous hydrofluoric acid (AHF), as well as aqueous solutions of HF (e.g., 70% and 49%), are clear, colorless corrosive fuming liquids with an extremely acidic odor. HF is corrosive to most metals and to many other materials including leather, natural rubber and many organics. When water is added to HF, considerable heat is evolved and a violent reaction can occur.

- Exposure to AHF or HF must be avoided because the liquid or vapor can cause severe burns, and life threatening cardiac arrhythmias; even moderate exposures to concentrated HF may result in death if left untreated. Workplace exposure limits have been established for use in worksite safety programs. Please see the MSDS for additional information.

This product stewardship summary is intended to give general information about the chemical or categories of chemicals addressed. It is not intended to provide an in-depth discussion of all health and safety information. Additional information on the chemical is available through the applicable Material Safety Data Sheet which should be consulted before use of the chemical. The product stewardship summary does not supplant or replace required regulatory and/or legal communication documents. Statements concerning use of our products are made without warranty that any such use is free of patent infringement and are not recommendations to infringe any patent.
For more information, send an e-mail to ProductRiskInformation@honeywell.com. Additional information may also be found at the following links:

- Acute Exposure Guideline Levels
- Emergency Response Planning Guideline (ERPG)
- European Union Risk Assessment Report