



Safety Ratings Of Preventive Treatment

USED IN THE HVAC PROTECTIVE MONITORING PROGRAM

Below are the NFPA ratings for each treatment chemical that is provided as part of the HVAC protective monitoring program. For the sake of comparison, ratings are also given for a familiar and edible substance, Sodium Chloride (otherwise known as “table salt”), and for Sodium Nitrite (the active ingredient in most commercial closed loop treatment blends).

PROGRAM CHEMICALS	HEALTH	FLAMMABILITY	REACTIVITY	PRECAUTIONS
Dipotassium Phosphate	1	0	0	none
Quaternary Ammonium	3	2	0	corrosive
Silicone Emulsion	0	1	0	none
Sodium Lauroyl Sarcosinate	1	0	0	none
Sodium Sulfite	2	0	1	none
FOR COMPARISON				
Sodium Chloride (table salt)	1	0	0	none
Sodium Nitrite (inhibitor)	2	0	3	strong oxidizer

Substances with lower ratings are safer to handle than those with higher ratings. With the exception of Quaternary Ammonium, a biocide, a hence a chemical that is by definition not innocuous to living organisms, the chemicals we provide have ratings similar to table salt. Further, all chemicals come prepackaged in small bottles, and may be added to HVAC systems without measuring or further handling. No special storage area is required, and since no more than a few bottles are on-site at any time, spills and “containment” are not an issue.

Below are common non-HVAC applications for the treatment chemicals used in the program:

- Dipotassium Phosphate is used in non-dairy creamers and in body-building drinks.
- Quaternary Ammonium is used as leave-on sanitizer for toilet seats in public restrooms.
- Silicone Emulsion is used to control foaming in soups at commercial canning operations.
- Sodium Lauroyl Sarcosinate is used as the primary surfactant in shampoo.
- Sodium Sulfite is used to preserve meats and dried fruits.

To provide perspective on the MSDS recommendations that protective gear be worn while handling each of the program chemicals, consider that the MSDS for “table salt” also recommends that those coming into contact with it wear full body-covering clothing, goggles, gloves, a NIOSH respirator, and have an eye-wash stand nearby.