



Material SAFETY DATA SHEET

Flo-Add HF

1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Flo-Add HF**

Description: Hydrogen free expansive and plasticising grout additive

Manufacturer: **DCP Saudi Co**
P.O. Box 66241, Riyadh 11576 Kingdom of Saudi Arabia
Tel. + 966 11 4612003 Fax: + 966 11 2792059
www.dcp-int.com

Date Prepared: 31.05.2011

MSDS Number: DCP/03/01/03

2: COMPOSITION / INFORMATION ON INGREDIENTS

Composition: Silica sand, additives.

| Hazardous Ingredient(s) | Symbol | Risk Phrases | CAS No. | % |
|--|---------|-------------------------------|------------|---------|
| Sodium salt of poly-naphthalene Sulphonic acid | - | R36/37/38 | 36290-04-7 | 45 - 60 |
| Hydrazine sulphate | T, C, N | R23/24/25, 34, 43, R45, 50/53 | 10034-93-2 | 10 - 18 |
| Copper carbonate | Xn | R22, 36 | 1184-64-1 | 5 - 10 |

Refer to Section 8 for Occupational Exposure Limits.

3: HAZARDS IDENTIFICATION

Hazard Information: Harmful if swallowed.
Toxic by inhalation, in contact with skin and if swallowed.
Causes burns.
Irritating to eyes, skin and respiratory system.
May cause sensitization by skin contact.
May cause cancer.
Very toxic to aquatic organism, may cause long-term affects in the aquatic environment.

Classification: Xn, T, C, N. R22, 23/24/25, 34, 36/37/38, 43, 45, 50/53.



4: FIRST AID MEASURES

| | |
|-------------|--|
| Eyes: | Irrigate immediately with copious quantities of water for 15 minutes. Obtain medical attention urgently. |
| Skin: | Wash immediately with soap and water or suitable skin cleanser, Dab with polyethylene glycol 400. Remove contaminated clothes and shoes. Obtain medical advice if skin disorders develop. |
| Inhalation: | Remove from exposure; obtain medical attention if respiratory irritation develops or if breathing becomes difficult. |
| Ingestion: | Rinse mouth thoroughly. Drink plenty of water. Induce vomiting. Obtain medical attention, administer: activated charcoal (20 – 40 g in 10% slurry) Keep airways free. Beware of aspiration if vomiting occurs. |

5: FIRE FIGHTING MEASURES

| | |
|--------------------------------|---|
| Flash Point (Closed Cup): | Not applicable. |
| Extinguishing Media: | Carbon dioxide, powder, foam or water. |
| Personal Protective Equipment: | Self-contained breathing apparatus. |
| Special Exposure Hazards: | Products of combustion are: Sulfur oxides (SO ₂ , SO ₃) and Carbon oxides (CO,CO ₂). |

6: ACCIDENTAL RELEASE MEASURES

| | |
|-----------------------------|--|
| Personal Precautions: | Wear suitable protective clothing, gloves, eye/face protection and dust respirator. Avoid generation and inhalation of dusts in all circumstances. |
| Environmental Precautions: | Do not allow to enter drainage system, surface or ground water. Danger to drinking water if even small quantities leak into soil. |
| Decontamination Procedures: | Use a shovel to put the spilled solid in a convenient waste disposal container. Avoid dust generation. |

7: HANDLING AND STORAGE

| | |
|-----------|---|
| Handling: | Maintain good standards of personal hygiene. Avoid skin and eye contact. Do not eat, drink or smoke whilst using this product. Ensure adequate ventilation. Wear suitable respiratory equipment. Avoid dust generation. |
| Storage: | Keep containers tightly closed, keep in a cool, well-ventilated place. Avoid contact with strong oxidizing agents. |



8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

| | |
|-------------------------|--|
| Eye Protection: | Tightly sealed safety glasses or face shield. |
| Skin Protection: | Impervious gloves (e.g. PVC). Suitable protective clothing. |
| Respiratory Protection: | Organic chemical cartridge respirator. |
| Hygiene Measures: | Change contaminated clothing and clean before re-use. |
| Engineering Controls: | Use only in well ventilated areas. Local exhaust ventilation is recommended. |

9: PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--------------------------------|-------------------|
| Form: | Powder |
| Colour: | Brown |
| Odour: | Odourless |
| pH (concentrate): | Not applicable |
| Boiling Point (°C): | Not applicable |
| Flash Point (closed cup) (°C): | NA Not applicable |
| Autoflammability (°C): | Not applicable |
| Explosive Properties (%): | Not applicable |
| Relative Density (@25°C): | 1.90 – 2.10 |
| Water Solubility: | Soluble |

10: STABILITY AND REACTIVITY

| | |
|-----------------------------------|--|
| Stability: | Stable in normal conditions. |
| Conditions to Avoid: | Strong Heating. |
| Chemical Incompatibility: | Strong oxidizing agents, metallic oxides, mercury compounds, |
| Hazardous Decomposition Products: | Thermal decomposition yield oxides of carbon, toxic fumes, refer to section 5. |



11: TOXICOLOGICAL INFORMATION

The following toxicological assessment is based on knowledge of the toxicity of the product's components.
Acute Oral effect LD50 = 600 mg/kg.

Health Effects

| | |
|----------------|--|
| On Eyes: | Irritant. |
| On Skin: | Irritant. |
| By Inhalation: | Irritant. |
| By Ingestion: | Irritant. |
| Chronic: | Repeated and prolonged skin contact may lead to toxic effect on: Kidneys, liver. |

12: ECOLOGICAL INFORMATION

| | |
|---------------------------|--|
| Environmental Assessment: | Contains compounds that are dangerous for the environment. |
| Mobility: | Powder. |
| Degradability: | Not readily biodegradable. |
| Bioaccumulation: | Not expected to be bioaccumulate. |
| Acute Fish Toxicity: | Ecotoxic to fish/daphnia/algae. |

13: DISPOSAL CONSIDERATION

Disposal must be in accordance with local and national legislation.

| | |
|-----------------------------|--|
| Unused Product: | Dispose off through an authorized waste contractor to a licensed site. |
| Used/ Contaminated Product: | As for unused product. |
| Packaging: | Must be disposed off through an authorized waste contractor. |

14: TRANSPORT INFORMATION



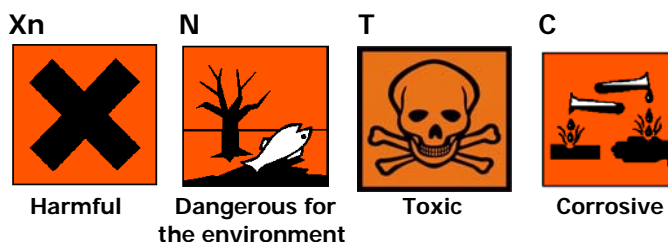
UN Number: 3288

Transport Name: Toxic solid, inorganic, n.o.s. (Hydrazine sulphate).

| Transport Type: | | Class: | Pack Group: | Marine Pollutant |
|-----------------|----------|--------|-------------|------------------|
| At Sea | IMO/IMDG | 6.1 | III | Yes |
| Air Transport | IATA | 6.1 | III | |
| At land | RID/ADR | 6.1 | III | |

15: REGULATORY INFORMATION

Hazard Label Data:



Named Ingredients: Sodium salt of poly-naphthalene sulphonic acid, hydrazine sulphate, copper carbonate.

UN Number: 3288

Risk Phrases:

| | |
|-----------|---|
| R22 | Harmful if swallowed. |
| R23/24/25 | Toxic by inhalation, in contact with skin and if swallowed. |
| R34 | Causes burns. |
| R36/37/38 | Irritating to eyes, skin and respiratory system. |
| R43 | May cause sensitization by skin contact. |
| R45 | May cause cancer. |
| R50/53 | Very toxic to aquatic organism, may cause long-term effects in the aquatic environment. |

Safety Phrases:

| | |
|-----------|--|
| S24/25 | Avoid contact with skin and eyes. |
| S36/37/39 | Wear suitable protective clothing, gloves and eye/face protector. |
| S45 | In case of accident or if you feel unwell seek medical advice immediately. |
| S53 | Avoid exposure - obtain special instructions before use. |

16: OTHER INFORMATION

Issue Date: 31/05/2011

Revised Date:

Disclaimer: The information contained herein is derived from the best available sources and is believed to be accurate. However, no guarantee is expressed or implied regarding the accuracy of the data given in the use of this product.