



## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND COMPANY INFORMATION

### Product Identification

- Trade Name: **FLOW SET 2000 NC**
- Product Use: Mid-Range Water Reducing and Accelerating Concrete Admixture
- Restrictions on Use: Intended for industrial and professional users
- CAS#: Mixture

### Company Information

- RussTech, Inc.  
11208 Decimal Drive  
Louisville, KY 40299  
502-267-7700
- Prepared by Department of Environmental, Health and Safety

### Emergency number – (serviced 24 hours)

- CHEMTREC 800-424-9300

## 2. HAZARDS IDENTIFICATION

### Classification of substance or mixture:

Specific Organ Toxicity (single exposure)	Category 3	May cause respiratory irritation
Acute Toxicity (oral)	Category 5	May be harmful if swallowed
Eye Irritation	Category 2A	Causes serious eye irritation
Skin Irritation	Category 2	Causes skin irritation

Label elements: This material requires a hazard warning label in accordance with GHS criteria



Pictogram:

Signal Word: **WARNING**

### Hazard statement(s):

H335: May cause respiratory irritation  
H303: May be harmful if swallowed  
H319: Causes serious eye irritation  
H315: Causes skin irritation

### Precautionary statement(s):

P280: Wear protective gloves/protective clothing/eye protection/face protection  
P261: Avoid breathing dust/fume/gas/mist/vapors/spray.

# FLOW SET 2000 NC

## Safety Data Sheet

P271: Use only outdoors or in a well-ventilated area.  
P264: Wash with plenty of water and soap thoroughly after handling  
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
P312: Call poison center or physician if you feel unwell  
P302+P352: IF ON SKIN: Wash with plenty of soap & water  
P332+P313: If skin irritation occurs, get medical advice.  
P362: Take off contaminated clothing and wash before reuse  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.  
P337+P313: If eye irritation persists, get medical advice  
P403+P233: Store in a well-ventilated place. Keep container tightly closed.  
P405: Store locked up.  
P501: Dispose of contents/container in accordance with local/state/federal regulations.

Hazards not otherwise classified: Not applicable

### 3. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

Per 2012 OSHA Hazard Communication Standard 29 CFR 1910.1200

<b>Components:</b>		
Chemical Name:	CAS#:	Content
Calcium Nitrate 70%	13477-34-4	60- 70%
Sodium Thiocyanate 50%	54-72-7	8 – 10%

### 4. FIRST AID MEASURES

Inhalation: Move person away from exposure. If having difficulty breathing, administer oxygen. If breathing has stopped, administer artificial respiration and seek medical attention.

Eyes: Flush eyes with water lifting upper and lower lids occasionally for 15 minutes. Seek medical attention.

Skin: Remove contaminated clothing. Wash affected area thoroughly with soap and water. If irritation persists, seek medical attention.

Ingestion: Contact physician or Poison Control Center (PCC) immediately. Do NOT induce vomiting unless instructed to do by physician or PCC.

### 5. FIREFIGHTING MEASURES

Suitable extinguishing media: Use extinguishing media suitable for surrounding fire

Unsuitable extinguishing media: Water jet

Specific hazards in case of fire: carbon dioxide, carbon monoxide, harmful vapors, nitrogen oxides, fumes/smoke, carbon black

Special protective equipment required for firefighting: Wear self-contained breathing apparatus (SCBA)

Additional information for firefighters: None

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

- Wear appropriate PPE as needed
- Keep unprotected persons away

# FLOW SET 2000 NC

## Safety Data Sheet

### Environmental precautions:

- Prevent material from entering drains, septic systems, water sources, etc. using dikes, absorbent materials and booms.

### Material containment and clean up:

- Contain material with dikes. Vacuum up spilled material or use absorbent media. Remove spilled material to storage for proper disposal. Dispose of in accordance with local, state and federal regulations. Rinse residual stain with water.

## 7. HANDLING AND STORAGE

Precautions for safe handling: No special handling required if material is used correctly. Avoid aerosol formation and wear proper PPE.

Information about protection against explosions and fires: No special measures required if material is stored and used correctly

Information about safe storage: Protect material from temperatures under 32°F (0°C)

Shelf Life: 18 months

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTIONS

Additional information about exposure controls: No further data; see section 7

Components with limit values that require monitoring at the workplace: None

PPE (personal protective equipment) and hygienic measures:

- Wear ANSI approved safety glasses or goggles to protect eyes
- Wear latex or rubber gloves to protect skin
- Wash hands thoroughly before breaks and at end of work day

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### General Information:

- Physical state: Liquid
- Color: Dark brown
- Odor: Pungent
- Odor Threshold: Not available

### Physical properties:

- pH value (@70°F): 4.00 – 8.00
- Specific gravity (@70°F): 1.280 – 1.310
- Bulk density: Not available
- Boiling point: 212°F / 100°C
- Freezing point/Melting point: 32°F / 0°C
- Decomposition temperature: Not available
- Vapor pressure: Not available
- Vapor density: Not available
- Evaporation rate: Not available
- VOC (w/w): 0%
- Solubility in / Miscibility with water: 100%
- Partition Coefficient (n-octanol/water): Not available
- Auto ignition: Material is not self-igniting
- Flash point: Material is non-flammable

# FLOW SET 2000 NC

## Safety Data Sheet

- Lower / Upper Flammability Limits: Not applicable
- Viscosity: Not available
- Danger of explosion: material does not present an explosion hazard

### 10. STABILITY AND REACTIVITY

Material stability: Material is stable and not sensitive to mechanical impact

Possibility of hazardous reactions: None known with proper use and storage

Incompatible materials to avoid: Strong acids, strong bases, strong oxidizing agents

Hazardous decomposition products: None expected during normal storage, handling and use

### 11. TOXICOLOGICAL INFORMATION

Routes for exposure for solids and liquids are ingestion and inhalation, but may include eye and skin contact.

Acute toxicity: This product has not been tested for toxicity. Data derived from individual components.

- Dermal: causes skin irritation
- Inhalation: may cause respiratory irritation
- Ingestion: may be harmful if swallowed
- Irritation/corrosion: causes serious eye irritation

Chronic toxicity: This product has not been tested for toxicity. Based on the properties of the individual components, the classification criteria are not met.

- Repeated dose: based on available data, the classification criteria are not met
- Genetic: based on available data, the classification criteria are not met
- Carcinogenicity: based on available data, the classification criteria are not met
- Reproductive: based on available data, the classification criteria are not met
- Teratogenicity: based on available data, the classification criteria are not met

### 12. ECOLOGICAL INFORMATION

Based on available data, potential for environmental toxicity is low; however, discharge to the environment should be avoided.

Ecotoxicity: product is unlikely harmful to aquatic life

Persistence and degradability: product expected to degrade in one month or less

Bioaccumulative potential: there is no evidence to suggest bioaccumulation will occur

Mobility in soil: accidental spillage may lead to penetration in the soil and groundwater, however; there is no evidence that this would cause adverse ecological effects

### 13. DISPOSAL CONSIDERATIONS

In its manufactured form this material is not considered a hazardous waste. Dispose of in accordance with local, state and federal regulations.

### 14. TRANSPORT INFORMATION

Material is not regulated for transport

### 15. REGULATORY INFORMATION

- Sara 302 (extremely hazardous materials): not applicable
- Sara 311/312: Acute health hazard

## **FLOW SET 2000 NC**

### **Safety Data Sheet**

- Sara 313: Not applicable
- TSCA: All components are listed or exempt
- California Prop. 65: This product does not contain any chemicals known to the state of California to cause cancer, birth or any other reproductive defects.

#### **16. OTHER INFORMATION**

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