

# Safety Data Sheet

## FORMULA 411

### Section 1 Identification

**Trade Name:** FORMULA 411  
**Product Identification:** 3650  
**Synonyms:** Granular alkali detergent  
**Product Use Description:**  
Sewer Solvent

**General Info Phone:** (770) 424-7550  
**Emergency Phone:** (800) 255-3924

**Supplier:**  
**ATCO INTERNATIONAL**  
1401 BARCLAY CIRCLE SE  
MARIETTA, GA 30060

### Section 2 Hazards Identification

#### Classifications

Skin corrosion - Category 1  
Eye Damage - Category 1  
Corrosive to Metals



Corrosive

**Signal Word:** Danger

#### Hazard Statements

Keep out of reach of children.  
Read label and SDS before use.  
Causes severe skin burns and eye damage  
May be corrosive to metals

#### Precautionary Statements

##### Prevention

Wear protective gloves, face mask, splash proof goggles and other protective clothing.  
Do not breathe dusts.  
Wash hands and face thoroughly after handling.  
Keep only in original container.

##### Response

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with soap and water/shower.  
Wash contaminated clothing before reuse.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
Continue rinsing.  
Immediately call a poison center or a physician  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
Immediately call a poison center or a physician.  
Absorb spillage to prevent material damage.

##### Storage

Store locked up.  
Store in corrosive resistant plastic container.

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### Disposal

Dispose of contents and container in accordance with all local, regional, and national regulations.

### Hazards Not Otherwise Specified

Reacts with water to generate heat and fumes.

## Section 3 Composition

<u>Chemical Name</u>	<u>CAS #</u>	<u>Concentration % by Weight</u>
Sodium Hydroxide	1310-73-2	>=60 <= 70
Sodium Nitrate	7631-99-4	>=5 <= 15
Aluminum granules	7429-90-5	>=1 <= 10

## Section 4 First Aid

### EMERGENCY OVERVIEW

**DANGER.** Harmful if swallowed. Causes severe skin burns and eye damage. May cause respiratory irritation.

**EYES:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

Immediately call a poison center or a physician.

**SKIN:** Take off immediately all contaminated clothing and wash it before reuse. Wash with plenty of soap and water/shower. If skin irritation persists get medical attention.

**INHALATION:** Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or a doctor.

**INGESTION:** Rinse mouth. Do not induce vomiting. Seek medical attention immediately.

## Section 5 Fire Fighting Measures

### Suitable fire extinguishing media:

Use large amounts of water, fog or foam.

### Specific hazards arising from the chemical:

Reacts with water to generate heat and fumes. Using large amounts of water will suppress the reaction.

### Hazardous thermal decomposition products:

Carbon Dioxide, Carbon Monoxide, Ammonia

### Specific fire-fighting methods:

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 a positive pressure mode.

## Section 6 Accidental Release Measures

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### Keep away from combustibles (wood, paper, oil, etc.) Personal precautions:

Put on appropriate personal protective equipment (see section 8)

**Environmental precautions and clean-up methods:** Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Prevent runoff from entering drains, sewers, streams or other bodies of water. Sweep up and transfer contaminated product, soil and other materials to containers for disposal. Keep away from combustibles (wood, paper, oil, etc.). Reacts with water to generate heat and fumes. If water is used for clean up, use large quantities until areas flushed.

## Section 7 Handling and Storage

Store in a cool, dry place. Do not get in eyes, on skin or on clothing. Avoid breathing dusts. Keep out of reach of children. Keep containers tightly closed.

## Section 8 Exposure Controls/Personal Protection

Aluminum granules ACGIH TLV	15 mg/m <sup>3</sup>
Sodium Hydroxide ACGIH TLV	2 mg/m <sup>3</sup>
OSHA PEL	2 mg/m <sup>3</sup>

**Eye Protection:** Wear face shield and safety goggles.

**Skin Protection:** Wear impervious gloves (made from rubber, nitrile or neoprene), clothing, and boots.

**Respiratory Protection:** When respiratory protection is required, use a respirator with particulate cartridge or dust mask. All respiratory programs must meet OSHA's 29 CFR 1910.34 & ANSI Z88.2 requirements.

**Engineering Controls:** Good general ventilation required.

## Section 9 Physical and Chemical Properties

<u>Property</u>	<u>Value</u>		
Appearance	SOLID GRANULES	Auto Ignition Temp	NOT AVAILABLE
Boiling Point	NOT AVAILABLE	Color	RED/PURPLE
Decomposition Temperature	NOT AVAILABLE	Evaporation Rate	NOT AVAILABLE
Explosive Limit Ranges	NOT AVAILABLE	Explosive Properties	NOT AVAILABLE
Flash Point	NONE	Melting/Freezing Point	NOT AVAILABLE
Odor	SLIGHT SOLVENT	Odor Threshold	NOT AVAILABLE
Other Information	VOC content (wt. %): 0.5	Oxidizing Properties	NOT AVAILABLE
Partition Coeff	NOT AVAILABLE	Physical State	SOLID GRANULES
Relative Density	NOT APPLICABLE	Solubility (Water)	COMPLETE
Vapor Density	NOT AVAILABLE	Vapor Pressure	NOT AVAILABLE
Viscosity	NOT AVAILABLE	pH	12-13

## Section 10 Stability and Reactivity

**Reactivity :** Under normal conditions of storage and use, hazardous reactions will not occur.

**Chemical Stability :** Stable under normal conditions.

**Incompatible Materials :** Acids and strong oxidizers

**Conditions to Avoid :** High temperatures, contact with moisture.

**Decomposition Products:** CO, CO<sub>2</sub>, H<sub>2</sub>, ammonia

Reacts with water to generate heat and fumes (ammonia).

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### Section 11 Toxicological Information

**Primary Route of Entry:** Skin contact, eye contact, inhalation

**Acute/Potential Health Effects:**

**EYES:** Causes severe irritation experienced as discomfort or pain, excess blinking and tear production, with redness and swelling of the conjunctiva.

**SKIN:** Brief contact may cause slight irritation. Prolonged contact may cause more severe irritation with pain, local redness and swelling and possible tissue destruction.

**INHALATION:** Excessive exposure to dusts may irritate the mucous membranes and upper respiratory tract.

**INGESTION:** May be harmful or fatal if swallowed. Corrosive. Can cause severe burns and complete tissue perforation of mucous membranes, mouth, throat and stomach.

**Chronic / Long Term Effects:** None known.

**Target Organ Effects:** Lungs and upper respiratory tract, gastrointestinal tract, eyes, skin.

**Reproductive/Developmental Information:** No data.

**Carcinogenic Information:** This material is not listed as a carcinogen by IARC, NTP or OSHA.

**Acute Toxicity Values:**

Sodium Hydroxide: Oral - LD50, rat 300-500 mg/Kg

### Section 12 Ecological Information

Sodium Hydroxide: Fish LC50, Mosquitofish (*Gambusia affinis affinis*), 125 mg/l, 96 hr.

### Section 13 Disposal Considerations

Waste must be disposed of in accordance with federal, state and local environmental control regulations. See label for further instructions.

### Section 14 Transport Information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

**UN number** 1823

**Proper shipping name** Sodium Hydroxide, Solid mixture

**Class** 8

**Packing group** II

### Section 15 Regulatory Information

**CERCLA RQ (40 CFR 302)**

Sodium Hydroxide

**1000 lbs**

If identified components of this product are **CERCLA** hazardous substances and/or listed under **Sections 302, 304, or 313 of**

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**Title III** of the Superfund Amendments and Reauthorization Act (SARA) of 1986 (also known as EPCRA, the Emergency Planning and Community Right-To-Know Act), or under **California Proposition 65** (Safe Drinking Water and Toxic Enforcement Act), they are listed above in Section 15 of this SDS.

If identified components of this product are listed under Section 313, this product contains toxic chemicals subject to the reporting requirements of Section 313. This information must be included in all SDS that are copied and distributed for this material.

**Title III Section 311/312** Hazardous Categories - 40 CFR 370.2:

ACUTE (X) Chronic ( ) Fire ( ) Pressure ( ) Reactive (X) Not Applicable ( )

**T.S.C.A. Status:** All chemical substances found in this product comply with the Toxic Substances Control Act inventory reporting requirements.

**RCRA Status:** Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. If this product becomes hazardous waste it would be assigned RCRA Code(s)

None

### Section 16 Other Information

#### HMIS Ratings :

<b>HEALTH</b>	3
<b>FLAMMABILITY</b>	0
<b>REACTIVITY</b>	1
<b>PERSONAL PROTECTION</b>	D

Disclaimer: This Manufacturer believes that the information contained in the Safety Data Sheet is accurate. The suggested procedures are based on experience as of the date of the publication. They are not necessarily all inclusive nor fully adequate in every circumstance. Also, the suggestions should not be confused with, nor followed in violation of applicable laws, regulations, rules or insurance requirements.

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