



# SAFETY DATA SHEET

REACTION 2000

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Date prepared: MAY 2, 2018  
MSDS : REACTION 2000 SDS GHS

## 1. IDENTIFICATION

### Product Identifier

Product Name REACTION 2000

### Recommended use of the chemical and restrictions on use

Recommended use Non-foaming alkaline cleaner

Restrictions on use For industrial use only

### Supplier details

Atomes FD Inc. 3485 Ashby Ville Saint Laurent Québec Canada H4R 2K3.

### Emergency Telephone Number

Canutec (613)-996-6666

## 2. HAZARDS IDENTIFICATION

### Classification

Skin Corrosion/Irritation	Category 1
Eye damage/Irritation	Category 1
Corrosive to metals	Category 1

### Label Elements

#### **DANGER**

#### **Hazard Statements**

Causes severe skin burns and eye damage.

May be corrosive to metals.



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### Precautionary Statements

Do not breathe dust/fume/gas/mist/vapors/spray.

Wash face, hands and any exposed skin thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

Keep only in original packaging.

#### **Precautionary Statements - Response**

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 doctor/physician.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

Wash contaminated clothing before reuse.

IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.

Immediately call a POISON CENTER or doctor/physician.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.



3485 Ashby Saint Laurent (Quebec) Canada H4R 2K3 Tel. : (514) 745 2597 Fax: (514) 745 5176

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Absorb spillage to prevent material damage.



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**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant according to local, provincial/federal regulations.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	CAS-No	Weight %
Sodium hydroxide	1310-73-2	5-20

**4. FIRST AID MEASURES**

<b>Eye contact</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
<b>Skin contact</b>	Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.
<b>Inhalation</b>	Remove person to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
<b>Ingestion</b>	Do not induce vomiting. Drink 1 or 2 glasses of water. Call a physician or Poison Control Centre immediately. Never give anything by mouth to an unconscious person.

**Most important symptoms and effects, both acute and delayed**

Causes burns to eyes, skin and mucous membranes. Symptoms include tingling sensation and / or reddening of tissues.

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media**

None.

**Specific hazards arising from the chemical**

The product causes burns of eyes, skin and mucous membranes.

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.



## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes and clothing. Use personal protective equipment.

### Environmental Precautions

Prevent further leakage or spillage if safe to do so.

### Methods and material for containment and cleaning up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

### Precautions for Safe Handling

**Handling** Avoid contact with skin, eyes and clothing.

### Conditions for safe storage, including any incompatibilities

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible Materials** Strong acids

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control parameters

Only constituents with exposure limits are listed. Any constituent not listed has no known exposure limit.

Chemical Name	ACGIH TLV
Sodium hydroxide 1310-73-2	STEL: 2 mg/m <sup>3</sup>

### Appropriate engineering controls

**Engineering Controls** Ensure adequate ventilation, especially in confined areas.

### Individual protection measures, such as personal protective equipment

**Eye/face Protection** Safety goggles.

**Skin and body protection** Wear rubber or neoprene gloves, rubber apron and boots.

**Respiratory Protection** If exposure limits are exceeded or if ventilation is inadequate, NIOSH/MSHA approved respiratory protection should be worn.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### **APPEARANCE :**

Clear, Yellowish liquid

### **ODOR**

Faint detergent

### **ODOR THRESHOLD :**

Not applicable

### **VAPOR PRESSURE, mm Hg AT 20°C :**

Not applicable

### **VAPOR DENSITY (Air = 1) :**

Not applicable

### **RELATIVE DENSITY AT 20°C:**

1.220



**pH :**  
> 13  
**MELTING POINT / FREEZING POINT :**  
Not available  
**BOILING POINT/BOILING RANGE :**  
100 °C  
**FLASH POINT :**  
None  
**EVAPORATION RATE, water = 1 :**  
1  
**FLAMMABILITY (SOLID, GAS):**  
Not applicable

**SOLUBILITY IN WATER :**  
Complete  
**PARTITION COEFFICIENT, N-OCTANOL/WATER :**  
Not available  
**AUTO-IGNITION TEMPERATURE :**  
None  
**DECOMPOSITION TEMPERATURE:**  
Not available  
**VISCOSITY:**  
<10 cps  
**FLAMMABLE LIMITS :**  
**UPPER:** Not applicable    **LOWER :** Not applicable

## 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive

### Conditions to Avoid

Store away from incompatible materials.

### Chemical Stability

Stable under normal conditions.

### Possibility of hazardous reactions

None

### Incompatible Materials

Strong acids

### Hazardous decomposition products

None

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium hydroxide 1310-73-2	500 mg/kg (Rabbit LDLo)	1350 mg/kg (Rabbit)	Not applicable

### Information on likely sources of exposure

<b>Serious eye damage/irritation</b>	Corrosive to eyes and may cause grave lesions, including blindness.
<b>Skin corrosion/irritation</b>	Corrosive to skin.
<b>Ingestion</b>	Ingestion may cause burns to the digestive and respiratory tract.
<b>Inhalation</b>	Spray mist may cause irritation or burns to respiratory tract.

### Delayed and immediate effects and also chronic effects from short and long-term exposure

<b>Respiratory or skin sensitization</b>	Not a sensitizer.
<b>Germ cell mutagenicity</b>	None known.
<b>Carcinogenicity</b>	No listed human carcinogens.
<b>Reproductive toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT-repeated exposure</b>	No information available.
<b>Aspiration Hazard</b>	None.

### Symptoms related to the physical, chemical and toxicological characteristics

Symptoms include tingling sensation and / or reddening of tissues, eventually leading to burn lesions.



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**12. ECOLOGICAL INFORMATION****Ecotoxicity**

No information available

**Persistence and degradability**

No information available

**Bioaccumulative potential**

No information available

**Mobility in soil**

No information available

**Other adverse effects**

None known

**13. DISPOSAL CONSIDERATIONS****Waste Disposal Method**

Dispose of in accordance with local regulations.

**Contaminated Packaging**

Empty containers should be taken for local recycling, recovery or waste disposal.

**14. TRANSPORT INFORMATION****TDG classification**

UN1760, corrosive liquid n.o.s. (sodium hydroxide), class 8, PG III

**15. REGULATORY INFORMATION**

All ingredients are listed on the DSL

**16. OTHER INFORMATION****Preparation Date**

MAY 2, 2018

**Revision Date**

not applicable

**Revision Note**

not applicable

**Disclaimer**

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**End of SDS**