

# SAFETYDATASHEET

REACTION 2000

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

## 1.IDENTIFICATION

### Product Identifier

ProductName REACTION 2000

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

Recommendeduse Non-foaming alkaline cleaner  
Restrictions on use For industrial use only

### Supplier details

KEMPRO SERVICES INC. 6068 Metropolitan E., Suite 100, St-Leonard, Qc. H1S 1A9, Tel. 1-800-299-0548

### EmergencyTelephoneNumber

Canutec(613)-996-6666

## 2.HAZARDSIDENTIFICATION

### Classification

SkinCorrosion/Irritation	Category1
Eyedamage/Irritation	Category1
Corrosivetometals	Category1

### Label Elements

#### **DANGER**

#### **HazardStatements**

Causessevereskinburnsandeyedamage.  
Maybecorrosivetometals.



### PrecautionaryStatements-Prevention

Donotbreathedust/fume/gas/mist/vapors/spray.  
Washface,handsandanyexposedskinthoroughlyafterhandling.  
Wearprotectivegloves/protectiveclothing/eyeprotection/faceprotection.  
Keep only in original packaging.

### PrecautionaryStatements-Response

IFINEYES:Rinsecautiouslywithwaterforseveralminutes.Removecontactlenses,ifpresentandeasytodo.Continuerinsing  
ImmediatelycallaPOISONCENTERordocor/physician.  
IFONSKIN(orhair):Remove/Takeoffimmediatelyallcontaminatedclothing.Rinsekinwithwater/shower  
Washcontaminatedclothingbeforereuse.  
IFINHALED:Removepersontofreshairandkeepatrestinapositioncomfortableforbreathing.  
ImmediatelycallaPOISONCENTERordocor/physician.  
IFSWALLOWED:Rinsemouth.DoNOTinducevomiting. ImmediatelycallaPOISONCENTERordocor/physician.  
Absorb spillage to prevent material damage.

**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**

Treats 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.ACCIDENTALRELEASEMEASURES****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.HANDLINGANDSTORAGE****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.EXPOSURECONTROLS/PERSONALPROTECTION****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: 2mg/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.PHYSICALANDCHEMICALPROPERTIES****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



<b>pH :</b> > 13	<b>SOLUBILITY IN WATER :</b> Complete
<b>MELTING POINT / FREEZING POINT :</b> Not available	<b>PARTITION COEFFICIENT, N-OCTANOL/WATER :</b> Not available
<b>BOILING POINT/BOILING RANGE :</b> 100 °C	<b>AUTO-IGNITION TEMPERATURE :</b> None
<b>FLASH POINT :</b> None	<b>DECOMPOSITION TEMPERATURE:</b> Not available
<b>EVAPORATION RATE, water = 1 :</b> 1	<b>VISCOSITY:</b> <10cps
<b>FLAMMABILITY (SOLID, GAS):</b> Not applicable	<b>FLAMMABLE LIMITS :</b> <b>UPPER:</b> Not applicable <b>LOWER :</b> 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	500mg/kg (Rabbit LDLo)	1350mg/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>	Not 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.



**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**