

## 1. IDENTIFICATION AND USE OF THE PRODUCT AND SUPPLIER

PRODUCT NAME: DP-4X  
 USAGE: Concentrated Alkaline Powder Cleaner

Maker: **LIBERCHEM** 

LIBERCHEM Inc  
 572 Avenue Orly, Dorval  
 Quebec, Canada  
 H9P 1E9  
 Tel: 514 631-7177

EMERGENCY PHONE: Poison Control Centre (Quebec): 1 (800) 663-5060  
 CANUTEC: (613) 996-6666

## 2. IDENTIFICATION OF HAZARDS

### Risk classification of the substance - Hazard statement



GHS05 **CORROSION**

#### Hazard statement

Skin corrosion, causes severe eye damage, causes skin burns. Harmful if swallowed. Inhalation: May cause irritation of the respiratory tract. Corrosive materials to metals

### Labeling Element

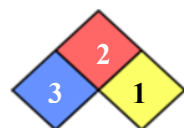


Sodium Hydroxide

### Precautionary Advice

If medical advice is required; Alternate the available container or label.  
 Keep out of reach of children  
 Read the label before use  
 Do not eat, drink, or smoke while handling this product. Wash after handling the product.  
 Do not breathe in dust or spray fumes.  
 Skin contact (hair): Remove soiled clothing immediately, rinse thoroughly in the shower  
 Contact with eyes: Rinse carefully with water for several minutes, Remove contact lenses if present and easy to remove, continue rinsing  
 Dispose of container contents in accordance with national, international, regional and local regulations.

NFPA Classification System - scale (0-4)



Santé = 3  
 Inflammabilité = 2  
 Instabilité : 3

HMIS - échelle (0-4)

<b>HEALTH</b>	3
<b>FLAMMABILITY</b>	2
<b>PHYSICAL DANGER</b>	3

## 3. COMPOSITION / COMPONENT INFORMATION

### HAZARDOUS INGREDIENTS

Chemical Name: Mixtures

Description: Mixture of the substances listed below with non-hazardous additions

1310-73-2	Sodium hydroxide	10 - 30 %
497-19-8	Sodium carbonate	30 - 60 %
10213-79-2	Sodium metasilicate	10 - 20%
51580-86-0	Sodium dichloroisocyanurate	5 - 10%

## 4. FIRST AID

**INHALATION :** Bring the victim to fresh air. If the victim is unconscious, place him on his side before transporting him. Getting medical attention

**SKIN** Wash immediately and thoroughly with water or in the shower; Use mild soap, wash clothes before reuse. Getting medical attention

**EYES** Rinse immediately with plenty of water, keeping the eyelids open. Remove contact lenses if the victim wears them and if they can be easily removed. Continue rinsing. Seek medical attention immediately .

**INGESTION :** DO NOT INDUCE VOMITING, Do not make an unconscious person swallow. Rinse your mouth with water. Seek medical attention immediately.

- Most significant symptoms and effects (acute and delayed): (Refer to section 11) -No other important information available
- Immediate medical management or special treatment, if applicable: No other important information available

## 5. FIRE-FIGHTING MEASURES

- EXTINGUISHING MEANS: Use the appropriate means to extinguish the fire: water, carbon dioxide (CO<sub>2</sub>), powder, chemical foam.
- INAPPROPRIATE EXTINGUISHING AGENTS: No other important information available.
- HAZARDS SPECIFIC TO THE HAZARDOUS PRODUCT OR MIXTURE: No other important information available
- SPECIAL PROTECTIVE EQUIPMENT AND SPECIAL PRECAUTIONS FOR FIREFIGHTERS: Use personal protective equipment.

## 6. MEASURES IN THE EVENT OF AN ACCIDENTAL SPILL

- PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES: Wear protective equipment, Avoid inhalation, keep unprotected persons away from the spill site and upstream of winds (Refer to Section 8 for personal protection) and Section 13 for product disposal data.
- METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING: Clean and place with shovels in a suitable container for disposal, Use adequate ventilation. (Refer to section 13 for product disposal).

## 7. HANDLING AND STORAGE

- PRECAUTIONS FOR SAFE HANDLING: Do not breathe dust, the workplace must be well ventilated to prevent the formation of vapours.
- INCOMPATIBLE STORAGE AND EQUIPMENT SAFETY CONDITIONS: Store in a well-ventilated area. Avoid excessive heat, strong acids, keep containers tightly closed and labeled.

## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

- CONTROL PARAMETERS,

COMPONENTS WITH OCCUPATIONAL EXPOSURE LIMIT VALUES	
1310-73-2 Sodium Hydroxide (25 – 50%)	
PEL	Short-term value: 2 mg/m <sup>3</sup>
REL	Cap: 2 mg/m <sup>3</sup>
TLV	2 mg/m <sup>3</sup> TWA

- APPROPRIATE ENGINEERING MEASURES: Ensure adequate ventilation, especially in enclosed areas. Use closed vacuum procedures, local exhaust ventilation, or other technical control to keep levels of suspended substances below exposure limits. Emergency eyewash stations and showers must be available in the workplace while handling this product.

- PERSONAL PROTECTIVE MEASURES:

GLOVES: Waterproof gloves



EYES: Protective eyewear



RESPIRATORY: Cartridge mask as needed



OTHER: Protective clothing



## 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	White powder
SMELL	Chlorine
OLFACTORY SMELL	Not available
pH (soil 1%)	12.0 – 13.0
MELTING POINT	Not available
POINT OF EBULLITION	Not available
FLASH POINT	Not available
EVAPORATION RATE	Not available
FLAMMABILITY (Solid, Gas)	Not applicable
LOWER FLAMMABILITY LIMITS	Not available
UPPER FLAMMABILITY LIMITS	Not available
VAPOUR PRESSURE ( 20 °C)	Not available
DENSITY ( 20 °C)	N/A
WATER SOLUBILITY	Complete
STEAM DENSITY	Not available
PARTITION COEFFICIENT (n-octanol/water)	Not available
TEMPERATURE DE DECOMPOSITION	Not available
VISCOSITY	N/A

## 10. STABILITY. AND RESPONSIVENESS

- RESPONSIVENESS
- CHEMICAL STABILITY Stable under normal conditions
- RISK OF DANGEROUS REACTIONS Chlorinated gas if mixed with acid or ammonium.
- CONDITIONS TO AVOID No other important information available
- INCOMPATIBLE MATERIALS Acids, oxidizing products, soft metals (Al, Zn, Sn), ammonia.
- HAZARDOUS DECOMPOSITION PRODUCTS nitrogen oxides, sulphur oxides, carbon oxides, etc.

## 11. TOXICOLOGICAL DATA

- INFORMATION ON TOXIC EFFECTS,

Acute toxicity:

1310-73-2 Sodium Hydroxide	
Oral (LD50)	2000 mg/kg (rat)
51580-86-0 Sodium dichloroisocyanurate	
Oral (LD50)	> 5000 mg/kg (rat)

HEALTH EFFECTS	Causes irritation to the respiratory tract, accompanied by a burning sensation in the nose and throat, Skin contact causes skin burns. Contact with the eyes causes serious eye damage.
CHRONICLE EXHIBITION	Data not available
CARCINOGENICITY	Data not available.
MUTAGENICITY	Data not available
TERATOGENICITY	Data not available

## 12. ECOLOGICAL DATA

ECOTOXICOLOGY L a Potential for large or frequent spills to have a harmful or harmful effect on the environment. Due to the high pH of this product, it can be expected to produce significant ecotoxicity if exposed to aquatic organisms and systems

Toxicity to fish: 96 h LC 50 4.6 mg/l, daphnia and other aquatic invertebrates sodium hydroxide 48 h EC50: 40 mg/l

PERSISTENCE AND DEGRADATION Data not available

POTENTIAL FOR BIOACCUMULATION/MOBILITY IN SOIL Data not available

OTHER ADVERSE EFFECTS Data not available

## 13. PRODUCT DISPOSAL DATA

Dispose of this product and its container at a hazardous or special waste collection centre. Do not allow the substance to seep into sewers/water supply lines. Destroy in accordance with all applicable regulations

WASTE RESIDUES / UNUSED PRODUCTS Dispose of in accordance with all local, provincial and federal regulations.

## 14. TRANSPORTATION INFORMATION

Number one UN1759  
 TMD, DOT, IMDG, IATA CORROSIVE SOLID, N.O.S. (Sodium Hydroxide)  
 Legal designation for transport



Transport hazard class

Class : **8** corrosive substances

Etiquette : **8**

Packing Group

II

Environmental hazards

No

