

# Chlorine Chemistry is essential

## Industry Fact Sheet

The chlor-alkali industry applies the energy of electricity to the “salt of the earth” to produce three of the most useful chemical building blocks: chlorine, sodium hydroxide and hydrogen.



### **\$630 billion**

A recent economic analysis found that using chlorine chemistry in nine end-use applications saves U.S. and Canadian consumers over \$630 billion every year.

### **critical chemistry**

Chlorine chemistry helps manufacture thousands of products critical to health, safety, energy efficiency and innovation.

**1/2**

Roughly 1/2 of the products of the chemistry industry depend on chlorine chemistry.

### **safe H<sub>2</sub>O**

The vast majority of U.S. water systems use chlorine to help provide safe drinking water.

### **medicine**

93% of top-selling U.S. pharmaceuticals are made with chlorine chemistry.

### **germ-buster**

Chlorine disinfectants destroy germs on surfaces in homes, healthcare settings, day care facilities, schools and restaurants.

### **food**

86% of crop protection chemicals are made with chlorine chemistry.

### **versatile chemistry**

Chlorine's co-product, sodium hydroxide (alkali), helps produce soaps and detergents, textiles, pulp and paper, metals and more.

### **\$1.3 billion**

Chlor-alkali industry employees earn a total of more than \$1.3 billion in wages each year.

### **110 thousand**

Chlorine-related industries supply approximately 110 thousand U.S. jobs.

### **energy efficiency**

Chlorine-based building and construction products, like polyurethane insulation and vinyl windows, help conserve energy.

### **wind and solar**

Components of wind turbines and solar panels are made with chlorine chemistry.

### **zero-emission fuel**

Hydrogen, a co-product of the chlor-alkali process, can be used as a zero-emission fuel in plant boilers, reducing a facility's carbon footprint.

### **innovation**

Chlorine chemistry helps process ultra-pure silicon for computer electronics and high-speed fiber optic communication.

### **infrastructure renewal**

Durable, corrosion-resistant PVC pipe, a product of chlorine chemistry, is a sustainable solution for water infrastructure renewal.

### **recycling**

Chlorine chemistry helps remove impurities from aluminum cans during recycling, diverting trash from landfills, saving energy and precious resources.