



Eka Chemicals Inc.

Purate<sup>®</sup>

[www.purate.com](http://www.purate.com)

**Description** Purate<sup>®</sup> is a stabilized aqueous solution of 40% sodium chlorate and < 8% hydrogen peroxide.

**Applications** Purate<sup>®</sup> is a precursor chemical for the production of chlorine dioxide in an SVP-Pure<sup>®</sup> Chlorine Dioxide Generator. Purate<sup>®</sup> must be used in conjunction with sulfuric acid to produce chlorine dioxide. Chlorine dioxide produced from Purate<sup>®</sup> may be used as an oxidant for phenol destruction, iron and manganese oxidation, hydrogen sulfide removal, and many other applications. It also may be used in biocide and pesticide applications, depending on local regulatory requirements.

In the U.S., Purate<sup>®</sup> is EPA FIFRA registered for use as a disinfectant, biocide, slimicide, algaecide, fungicide, and molluscicide in drinking water, wastewater, and process water systems. Purate<sup>®</sup> also has FDA approval for disinfection of processed fruits, vegetables and poultry. (Refer to the product label for more information regarding applications.)

Internationally, regulatory requirements vary widely. Consult local authorities or Eka Chemicals Inc. for use restrictions.

**Specifications**

Sodium chlorate .....	40%
Hydrogen peroxide .....	7 - <8%
Water .....	52 - 53%
Storage temperature limits .....	5 - 40 °C

**Physical Properties**

Appearance .....	Clear, faint blue solution
Specific gravity.....	1.37
Flash point .....	None
Boiling point .....	104 °C
Odor.....	Slight

<b>Shipping Information</b>	<b>USA Customers:</b> 300 gallon tote (IBC) 3800 gallon tank trailer 20 MT ISO container 17,400 gallon railcar	<b>International Customers:<sup>1</sup></b> 1 m <sup>3</sup> IBC 20 - 26 MT ISO container
	Shipping classification: DOT: Sodium Chlorate, Aqueous Solution UN/ID number: UN 2428	Shipping classification: UN/ID number: UN 2428

<sup>1</sup> Availability of tank truck and ISO containers varies by region. Contact Eka Chemicals Inc.



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**Regulatory Information**

In the U.S., EPA and state agencies regulate the use of this product as a pesticide. State registration is required prior to the sale or distribution of this product for pesticide applications. It is a violation of Federal Law to use this product in any manner inconsistent with the labeling. Federal and state registrations are not required for non-pesticide applications, like chemical oxidation.

Internationally, regulations vary widely by region and country. Consult local regulatory authorities to determine any local use restrictions or regulatory requirements.

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**Safety and Handling Information**

*General:* Avoid all bodily contact. Wear appropriate protective equipment. Do not allow clothing, shoes or gloves to become impregnated with sodium chlorate in solution, as they will become highly combustible if allowed to dry, and may be ignited by friction or heat. In case of external fire, cool containers of sodium chlorate and hydrogen peroxide solution with plenty of water.

*Skin:* Use impervious clothing to avoid skin contact.

*Eyes/Face:* Wear safety glasses with side shields or chemical goggles. Where appropriate, wear a full-face shield. Contact lenses should not be worn when handling this product.

For more complete information, consult the Material Safety Data Sheet (MSDS) for this product.

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**Chemical Registration Numbers**

U.S. EPA:	49620-4
CAS:	
Sodium chlorate	7775-09-9
Hydrogen peroxide	7722-84-1

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The product is intended for sale only to industrial users. The information in this document is intended to provide users with basic information about this product. The Material Safety Data Sheet (MSDS) for this product should be consulted for more complete information. Users must inspect and test the product before use to satisfy themselves as to the contents and suitability. Eka Chemicals specifically disclaims all warranties express or implied; specifically, all warranties as to suitability, fitness for a particular purpose or merchantability of this product. The exclusive remedy for all proven claims is replacement of our product. In no event shall Eka Chemicals be liable for any special, incidental, or consequential damages. The MSDS for this product should be provided by the buyer, transporter or other handlers of this product to all who will use, handle, store, transport or otherwise potentially be exposed to this product. Eka Chemicals believes this information to be reliable and up-to-date as to the date of publication, but makes no warranty that it is. If the revision date of this document is more than three years old, then contact Eka Chemicals for an updated version. Purate<sup>®</sup> and SVP-Pure<sup>®</sup> are registered trademarks in the United States and several other countries.

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