



# Production of $\text{KClO}_3$

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# Outline:

- Introduction
- Safety in producing of  $\text{KClO}_3$
- Resource-saving in production of  $\text{KClO}_3$
- Waste disposal of  $\text{KClO}_3$
- Innovations in using of  $\text{KClO}_3$
- Conclusion



# Introduction:



□ *Chemical Name:* Potassium chlorate moisten

□ *Synonym & Trade Name:*  
Potassium salt chlornovatic acid,  
Bertolle salt

□ *Empirical Formula:*  $\text{KClO}_3$

□ *Molecular Mass:* 122.55

□ *Appearance:*  
Crystals of white color tinged  
with yellow

# Safety in production of $\text{KClO}_3$

*Oxidizing  
Flammable  
Explosive*

*Lab coat  
Gloves*

*No open flames*

# Resource-saving

- Increasing the strength of the current in the electrolysis method Berthollet
- Cleaning KOH in the chlorination
- Using the saturated sodium chlorate in exchange reactions



# Waste disposal of $\text{KClO}_3$

- Use it as recyclable material
- In manufacture of  $\text{KCl}$ ,  $\text{O}_2$ ,  $\text{ClO}_2$
- In pyrotechnics



# Innovations in using of $\text{KClO}_3$

**Medicine:**

**Antiseptic for the  
throat**

**Paint industry:**

**Highly  
heat-resistant  
dyes**

Conclusion:

*Recyclable*

*Medicine*

*Paint  
industry*







Thanks for  
your attention