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Hand Sanitizer

- The trade value of hand sanitizer is 522,184.46 USD
- The average quantity being traded 134,408,000 Kg = 296,318,917 Lbs
- Purell is produced by GOJO industries which has headquarters in Ohio and France
 - America's #1 hand sanitizer brand
 - Due to the pandemic, GOJO's sales jumped 600 percent in 2020
- ContFDA warned GOJO not to market Purell as something that eliminates the flu, Ebola, and MRSA
 - Marketed as a pharmaceutical drug rather than an over the counter antiseptic
 - The FDA does not allow hand sanitizer brands to make viral claims
- most effective ingredient in hand sanitizer: alcohol
 - The FDA requires hand sanitizers to have a minimum of 60 percent alcohol
- The alcohol is blended with an aqueous gel (Carbopol)
 - important not to get air into the product
- 3 chemicals found in hand sanitizer that are extremely toxic when evaporated: ethanol, any isopropyl alcohols, and any hydrogen peroxides
- Even a small amount of alcohol is responsible for alcohol poisoning
- frequent use can lead to antimicrobial resistance
- FDA wants to make hand sanitizer available to all Americans
- list of dangerous hand sanitizers are deemed as adulterated and are prohibited to be sold or distributed under federal law
- On the FDA ban list
 - 21 are from China
 - 27 are from Mexico
 - And only 3 are from the United States
- no movement specifically against the production or trade of hand sanitizer, but the production and distribution pollutes the ocean
- The Natural Resources Defense Council is trying to raise awareness on ocean acidification
 - Ocean communities are affected, our economy relies on them for our fishing imports and exports
- what we can do to reduce ocean acidification
 - reduce carbon pollution
 - Contact policymakers
 - Reduce carbon footprint
 - Reduce nitrogen pollution