





Topical Anesthetic Spray Comparison Chart

CryoDose TA is safer, clinically and therapeutically equivalent to Ethyl Chloride, and is FDA cleared for more indications for use.



Description	Ethyl Chloride (Chloroethane)	CryoDose TA
FDA primary intended use	Vapocoolant, Topical Anesthetic	
FDA cleared application sites	Intact skin only	Intact skin, minor open wounds, intact oral mucous membranes (oral cavity, nasal passageways, lips)
Dosage & admin	Spray 4-10 seconds at 3-7 inches; stop if skin turns white	
Onset of action	Instant	
Cooling profile	Cools skin to well below freezing	
Duration of effect	Up to one minute	
Flammability rating	 Extremely flammable	Non-flammable
Toxicity	 Skin absorption can occur; liver & kidney toxin; long term exposure may cause liver & kidney damage	No systemic toxicity
Inhalation Precautions	 Harmful if inhaled; may produce narcotic & general anesthetic effects, deep anesthesia, fatal coma or cardiac arrest	No precautions needed
California Prop 65 & other state listings	 "This product contains a chemical known to the state of California to cause cancer."	Not listed; no restrictions
HAZMAT shipping	Additional HAZMAT shipping charges apply	No additional shipping charges
HAZMAT storage	HAZMAT safety storage procedures	No storage restrictions
HAZMAT disposal	Hazardous waste disposal required	Normal trash

*CryoDose TA unique benefits listed in **bold**.*

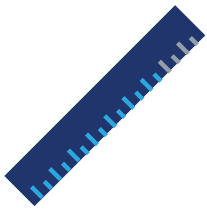
References

Centers for Disease Control and Prevention, NIOSH. Appendix C - Supplementary Exposure Limits. U.S. Department of Transportation (DOT). Pipeline and Hazardous Materials Safety Administration. DOT-SP 13102. 49 CFR 172.101. Occupational Safety and Health Standards. Toxic and Hazardous Substances. Standard Number 29 CFR 1910.1200. Occupational Health Guideline for Ethyl Chloride. U.S. Dept. of Labor, OSHA. U.S. Dept. of Health and Human Services. PHS. CDC. NIOSH. September 1978. Medical and Dental Offices. A Guide to Compliance with OSHA Standards. OSHA 3187-09R. 2003. Safety Data Sheet. Gebauer Company. Gebauer's Ethyl Chloride®. 4/23/2013. Safety Data Sheet. Gebauer Company. Gebauer's Pain Ease®. 8/20/2013. Safety Data Sheet (SDS). Nuance Medical. 2016. Safety Data Sheet P-4597 (SDS). Praxair. 05/01/2015. The Joint Commission ECNews. July 2013. ol 16. Issue 7. U.S. Environmental Protection Agency. "Health Effects Notebook for Hazardous Air Pollutants. Ethyl chloride (Chloroethane). The Joint Commission (JCAHO). Hazardous Material - Waste Inventory Program. 2017. FDA 510(k) Summary. Gebauer. K991514, K032671. FDA 510(k) Summary. Nuance Medical. K162218. ca.gov. <http://oehha.ca.gov/media/downloads/proposition-65//p65single10212016.pdf>. Chloroethane (Ethyl chloride). Type of Toxicity, cancer. CAS No. 75-00-3. Date Listed 07/01/1990.



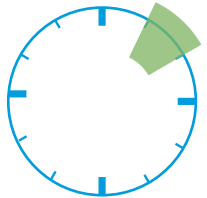
Switch to Safer. Switch for **Good.**

Item #	Description	Volume
1802	CryoDose TA, Mist Spray	115mL
1803	CryoDose TA, Medium Stream (sprays 360°)	115mL



IDENTICAL SPRAY HEIGHT

3-7 inches



IDENTICAL SPRAY TIMING

4-10 seconds



EQUIVALENT COOLING PROFILES

Cools skin to well below freezing
– J Athl Train, Vol 47, No 3, 2012



MORE USES

For use on intact skin, plus:

- Minor open wounds
- Intact oral mucous membranes
- Oral cavity
- Nasal passageways
- Lips