

“The use of Tritium has has many stigmas attached to it. We feel only with facts, can you make intelligent decisions”



LIME EDUCATION: WHAT IS TRITIUM

Tritium one of our solutions involves a product which contains Tritium. Many people express concern when they hear Radioluminescent, and that concern is due to some misnomers about what Tritium is and the notion that if it's radioactive it must be toxic and cause people to melt once exposed!

This myth is untrue however and tritium is an intelligent solution for some companies, campuses and institutions where long-term sustainable results are desired. It provides customers with a non-electrical, completely maintenance free solution for up to 20 years.

After which it can be mostly recycled and the Tritium decays into Helium and is non toxic.

Tritium has several different experimentally-determined values of its half-life, the NIST Suggest 4500 ± 8 days (approximately 12.32 years). It decays into helium-3 by the reaction releasing 18.6 keV of energy. The electron has an average kinetic energy of 5.7 keV, while the remaining energy is carried off by the nearly undetectable electron antineutrino. The low-energy beta radiation from tritium cannot penetrate human skin, so tritium is only dangerous if inhaled or ingested. Its low energy also creates difficulty detecting tritium labelled compounds except by using liquid scintillation counting. The emitted electrons from small amounts of tritium cause phosphors to glow so as to make self-powered lighting devices called trasers which are now used in watches and exit signs. It is also used in certain countries to make glowing keychains, and compasses

Hopefully you will find this information helpful in making your decision on long term solutions for your safety egress system. If you still have concerns and are not willing to invest in Tritium technology, you may be interested in learning about our photoluminescent technology - it may be right for you.



CALL LIMELUMI TODAY TO TALK ABOUT HOW WE CAN LOWER YOUR LIGHTING AND SAFETY EGRESS COSTS - 1.888.LIMELUMI (546-3586)