

Liquid Nitrogen Safety Infographic



CGA
Compressed Gas Association

SAFE USE OF LIQUID NITROGEN

IN FOOD AND BEVERAGE SERVICE ENVIRONMENTS



- WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (PPE)**
 -  FACE SHIELD
 -  SAFETY GLASSES OR SAFETY GOGGLES
 -  INSULATED GLOVES (TYPICALLY LEATHER)
 -  CLOTHING THAT COVERS THE SKIN AND DOES NOT HAVE CUFFS OR FOLDS THAT COULD TRAP SPILLED CRYOGENIC LIQUID
- NEVER CONSUME LIQUID NITROGEN DIRECTLY**
 - 
 - ⚠️ LIQUID NITROGEN IS -321 F (-196 C) AND CAN FREEZE HUMAN TISSUE ON CONTACT. IF SWALLOWED, THE LIQUID CAN CAUSE SERIOUS INJURY OR DEATH.
 - ⊗ DO NOT CONSUME ANY AMOUNT OF LIQUID NITROGEN.
- ONLY USE CONTAINERS & EQUIPMENT DESIGNED FOR CRYOGENIC LIQUIDS**
 - 
 - ⚠️ MATERIALS THAT ARE NOT DESIGNED FOR CRYOGENIC SERVICE, SUCH AS GLASS OR PLASTIC, CAN SHATTER WHEN EXPOSED TO LIQUID NITROGEN.
 - ✓ ALWAYS USE APPROPRIATE CONTAINERS AND POUR LIQUID NITROGEN SLOWLY TO MINIMIZE THERMAL SHOCK AND SPLASHING.
- NEVER TRAP LIQUID NITROGEN IN A CONTAINER, TUBING, OR PIPING**
 - 
 - ⚠️ AS THE LIQUID WARMS AND CONVERTS TO GAS, THE PRESSURE RISES, AND CONTAINERS THAT ARE NOT EQUIPPED WITH ADEQUATE VENTS CAN CATASTROPHICALLY RUPTURE.
 - ⊗ NEVER PUT LIQUID NITROGEN IN A CONTAINER NOT DESIGNED FOR CRYOGENIC SERVICE.
- USE LIQUID NITROGEN IN WELL-VENTILATED AREAS**
 - 
 - ⚠️ WHEN LIQUID NITROGEN IS EXPOSED TO WARMER AIR, IT RAPIDLY TURNS INTO GAS AND CAN QUICKLY DISPLACE THE AIR IN THE ROOM, CREATING A RISK OF OXYGEN DEFICIENCY AND ASPHYXIATION.
 - ✓ AIR MONITORING IS RECOMMENDED.

Source: <https://www.cganet.com>