

# 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 CLUFFS 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 ASPHYXIA.**
- AIR MONITORING IS RECOMMENDED.**

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