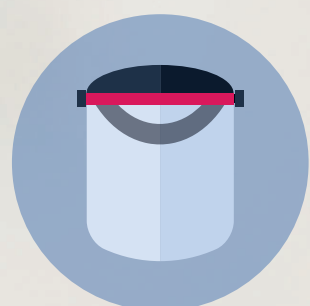


# SAFE USE OF LIQUID NITROGEN

IN FOOD AND BEVERAGE SERVICE ENVIRONMENTS



## WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (PPE)



FACE SHIELD



SAFETY GLASSES OR  
SAFETY GOGGLES



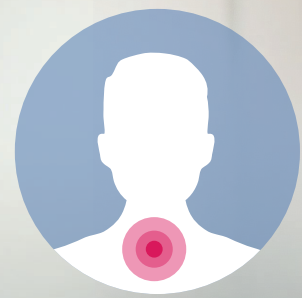
INSULATED GLOVES  
(TYPICALLY LEATHER)



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.

