

PTW Safety Checklist **No. 62**

Work within the CO2 Plant

Other Checklists that may be relevant:		58 , 59
Permit Number:		Date:
Rev 1.4	Issue Date: 29/11/2024	Authorised By: PSM

CAUTION:

- 1 This checklist is intended to be used for work within the CO2 plant where there is the potential to impact food grade CO2. ☐
- 2 The CO2 plant is a designated restricted access zone due to the use of ammonia as a refrigerant and is also a food safe area. ☐
- 3 The restricted access zone is identified physically in field and available via [MAP](#) from Kapuni PCF.
- 4 Ammonia is a Toxic substance and is hazardous to humans when exposed via inhalation and ingestion. The following requirements are to reduce exposure to, limit impact of an ammonia release and ensure [Food Safety Management System Manual](#) requirements are maintained.
- 5 Other References:
[KGT-7006-TECD721851 – Dealing with Ammonia SOP](#)
[Food Grade CO2 Worker Hygiene Procedure](#)

Access To CO2 Plant:

- | | Y | N | N/A |
|--|--------------------------|---|-----|
| 6 Plant status is confirmed stable.
Note: Access shall be suspended if start-up or shutdown activities occur within the CO2 plant. | <input type="checkbox"/> | | |
| 7 Ammonia Escape Hood shall be immediately available for each person working in the restricted zone.
Note: The hood can be left adjacent to the work site but within arm's reach if it is impeding your ability to work. | <input type="checkbox"/> | | |
| 8 A Portable Ammonia detector issued per work group, to be worn by a person in the work party and remain at the worksite for the work. | <input type="checkbox"/> | | |
| 9 Is the system one that may contain Ammonia? (KGTP only)
Refer to: <ul style="list-style-type: none"> • Dealing with Ammonia SOP.pdf for specific PPE requirements • Health Hazard Registers | | | |

List Specific PPE _____

Food Grade CO2 Controls:

Prior To Permit Issue:

Y N N/A

10 Work scope impacts Food Grade CO2 controls.

☐ ☐

If **NO**, go straight to **Q15**, otherwise complete remaining questions.

11 Work Team are familiar with the [Food Safety Quality Standard](#)

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12 All personnel working under this permit are to comply with the [Food Grade CO2 Worker Hygiene Procedure](#)

☐

13 Use only approved food grade chemicals as per the attached schedule

☐

Prior To Commencing Task:

14 Storage of items or materials within the food safe area must not exceed what is required for the current day's activities.

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On Completion of Task:

15 All materials have been removed from food safe area.

☐

16 The work site has been left clean, tidy, and washed down if necessary.

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17 Ensure any test results carried out, in item 9 for Ammonia are entered into the [Health Hazard Registers](#)

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☐

18 Sign off that CO2 plant, and any equipment worked on has been left suitable for food grade CO2 production.

Name: _____ Date: _____

Signature: _____

SEE TABLE BELOW REGARDING PRODUCT APPROVAL CODE MEANINGS:

Approved CO2 plant maintenance products				
Product	Function	Picture	MPI Approval Code	Approval Code meaning
FoodLube Multipaste	Grease / Anti seize		MPI Approval C15	Can be used sparingly on CO2 contact surfaces.
Brakleen	Degreaser		MPI Approval C12	External parts only. Not to be used on surfaces that contact CO2
Food Grade Anti Seize	Lubricant		MPI Approval C15	Can be used sparingly on CO2 contact surfaces.
CRC 3097 Long Life Anti-Rust Lubricant	Corrosion Control Lubricant		MPI Approval C12	External parts only. Not to be used on surfaces that contact CO2
CRC 5-56	Lubricant		MPI Approval C14	External parts only. Not to be used on surfaces that contact CO2
CRC Food Grade 5-56	Lubricant		MPI Approval C15	Can be used sparingly on CO2 contact surfaces.
Tergo Enviro Degreaser	External Cleaner / Degreaser		MPI Approval C32	External parts only. Not to be used on surfaces that contact CO2
FOODLUBE 2 Bearing Grease	Grease		MPI Approval C15	Can be used sparingly on CO2 contact surfaces.
Crystal Simple Green Industrial Cleaner & Degreaser	External Cleaner / Degreaser		MPI Approval C41	Can be used in all areas. After use, surfaces must be rinsed with water and then dried.

Ammonia Vapour Measurement Form

Date:		Day/Night Shift:		
Site:		Testers Name:		
Process Equipment-System:		Equipment Tag:		
Reason for test:				
Measurements (ppm)	Reading 1	Reading 2	Reading 3	Average of three readings
Ammonia Readings in (ppm) Measured concentrations in air at breathing height:				
Breathable Atmosphere – Yes or No Under (< 25ppm)				
Equipment Temperature:				
Time of Readings:				
Equipment Purged: Yes or No.				
Test Distance from opening (cm)				
Measuring equipment used: Analyser Serial No.				
Comments on any readings:				