



DSEAR Risk Assessment Template

LPG storage facility / 1 Feb 2023 / Dany S T

Complete

Score	0 / 0 (0%)	Flagged items	0	Actions	2
Site/Area/Zone	LPG storage facility				
Conducted on	1 Feb 2023 13:47 PST				
Prepared by	Dany S T				
Location	Central Ave, Levenshulme, Manchester M19 2FF, UK (53.4477502, -2.1954767)				

Actions

2 actions

DSEAR Risk Assessment / Risk Assessment / Bulk storage of flammable liquids / Action Number : / Action Number : 1

Responsible person/s

Jon S

To do | Priority: High | Due: 10 Feb 2023 13:52 PST | Created by: SafetyCulture Staff

Electrical check

Hello Minni! We need Jon S to do an electrical check of our new storage room. I'm afraid that the new wiring may be a risk to the stored lpg containers. Thank you.

To do | Priority: Medium | Due: 17 Feb 2023 13:51 PST | Created by: SafetyCulture Staff

Electrical inspection needed

Electrical inspection needed for the newly renovated storage room. Please contact our trusted electrician, Jon S.

DSEAR Risk Assessment

2 actions

Information

Substance Name:

Liquid petroleum gas (LPG)

Photo (optional)



Photo 1

Category (select all that apply)

Explosive Atmosphere

Explosive

Extremely Flammable

Flash point

-104 Celsius

Auto ignition temperature

410-580 Celsius

Lower explosive limit

2.2%

Usage

Where is the substance used/generated?

Newly opened bakery

Amount used/generated (specify units of measurement)?

15 kg

Amount stored (if applicable) - specify units

150 kg

How is it stored?

New storage room

Substance can be:

Neither eliminated nor substituted

Measures currently in place

Storage room is temperature-controlled and we have newly installed gas detectors

Photo of measures in place (optional)



Photo 2

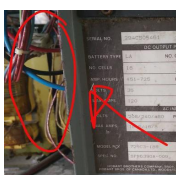


Photo 3

List potential ignition source/s

(Examples could be an electrical spark caused by connection or disconnection of leads to a battery, naked flame e.g. pilot lights, smoking etc)

Possible electrical spark from exposed wire I found

Employees at risk

Bakers and employees on site

Relevant operator and/or supervisor training

All our employees are certified and trained to work at our facility.

Risk Assessment

2 actions

In order to assess the risk, select the appropriate items below related to this assessment

Bulk storage of flammable liquids

2 actions

Bulk storage of flammable liquids?

Yes

Existing control measures:

Temperature-controlled storage room and digital sensors

Severity

Major fire or plant wrecking explosion with significant injury potential

Likelihood

Unlikely - Good process control

Risk rating

Low

Actions

Action Number :

2 actions

Action Number : 1

2 actions

Details of action

The storage room's temperature is maintained and we have new sensors installed but we need to recheck the electrical wiring. The site is newly renovated but I am not satisfied with the room.

Responsible person/s

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Flammable liquid storage in containers

Flammable liquid storage in containers?

No

Hand Painting with flammable liquids

Hand Painting with flammable liquids?

No

Spraying with the flammable liquids

Spraying with the flammable liquids?

No

Handling of flammable solids

Handling of flammable solids?

No

Dust collection system

Dust collection system?

No

Sources of ignition and hot work

Sources of ignition and hot work?

Yes

Existing control measures?

Smoke detectors

Severity

Small localised fire, easily extinguished or contained in plant explosion causing no damage

Likelihood

Unlikely - Good process control

Risk rating

Low

Actions

Gas freeing and inerting

Gas freeing and inerting?

No

Storage and use of compressed flammable gases

Storage and use of compressed flammable gases?

Yes

Existing control measures?

Temperature-controlled kitchen with sensor and fire detectors

Severity

Explosion of fire causing plant damage and requiring RIDDOR reporting

Likelihood

Unlikely - Good process control

Risk rating

Low

Actions

All cylinders are dangerous. The following should never occur:

- The use of gas cylinders as rollers to transport heavy sections.
- Never use direct flame for any heating to raise the pressure of the cylinder.
- Never subject any cylinder to a temperature over 45°C.
- Never recompress one cylinder from another.
- Never attempt to transfer gases from one cylinder to another.
- Never permit oil, grease or paint or similar substance to come into contact with oxygen cylinder valves.
- Never attempt to repair or modify cylinder valves or devices.
- Never allow electric arc welding tools to come near cylinders.
- Do not allow welding sparks and slag to make contact with cylinders.
- Never use anything but the recommended cylinder valve keys and never attempt to increase the leverage of keys.
- If you suspect that a cylinder valve is damaged, do not attempt to obtain gas from it.

USE OF LPG

The use of the LPG gas, once delivered for use in its gaseous as opposed to liquid form will need to be risk assessed but on the assumption that the delivery mains are to LPG ITA Standards the topic is best risk assessed according to the item of plant that the gaseous LPG is serving. This could be anything from profile cutting machines through to hot mill furnaces or simply space heating.

As with most fixed services it is probably the maintenance element where there will be greatest risk.

Dispensing petrol

Dispensing petrol?

No

Battery Charging

Battery Charging?

No

Other Actions

Permits to work acquired?

Yes

Is Zoning required

Yes

Completion

Recommendations

Risk discovered from possible source of electrical spark at the renovated storage room. I tasked Minni to contact electrician Jon S to check and ensure there is no risk.

Signature



Dany S T
1 Feb 2023 13:54 PST

Media summary



Photo 1



Photo 2

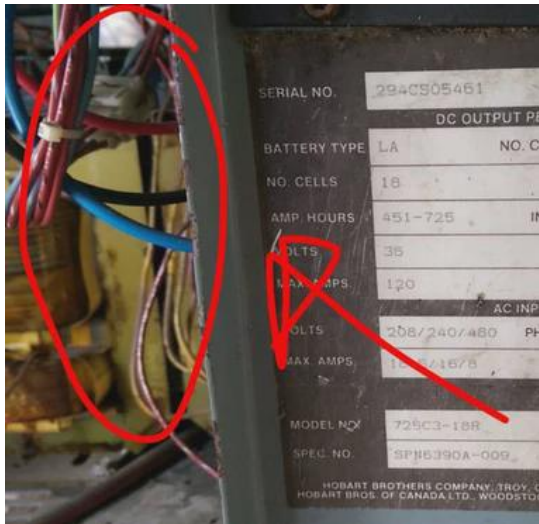


Photo 3