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Company Number 9934919

COSHH ASSESSMENT

For the use of Hilti GC42 Gas used in Hilti GX3 nail gun.

We use Hilti nail guns that require a pressurised gas cylinder for the driving of nails.

Pictured example below.



		COSHH Risk Assessment No:		02	
Where will the substance be used?			Construction sites/Street and roadworks/domestic properties.		
Work process/Activity		The small gas cartridge is placed inside a Hilti GX3 nail gun and is used to fuel the nail placement.			
Duration and quantity being used		The nail gun uses a small amount of gas for each fired nail. Duration is short, generally less than 15min.			
Identify the persons at risk:		Employees (including trainees)	☒	Contractors	☒
		Public ☐			
Name the substance involved in the process and its manufacturer.		Hilti GC 42 Compressed gas cartridge (cat 1) used in Hilti GX3 gas nail gun. Product data sheet attached.			
Classification					
 ☐ Acute toxicity Cat 1-3  ☐ Serious health hazard  ☐ Aquatic Environment  ☐ Acute toxicity (cat 4)  ☒ Flammable  ☒ Explosive  ☐ Corrosive  ☐ Oxidising  ☒ Gas under pressure					
Hazard Type					
☒ ☒ ☐ ☒ ☐ ☐ ☐ ☐ Gas Vapour Mist Fume Dust Liquid Solid Other (State)					
Route of Exposure					
☒ ☐ ☒ ☐ ☐ Inhalation Skin Eyes Ingestion Other (State)					
Workplace Exposure Limits (WELs) <i>please indicate n/a where not applicable</i>					
Long-term exposure level (8hrTWA): N/A			Short-term exposure level (15 mins): N/A		
State the Risks to Health from Identified Hazards					
Flammable gases, Category 1, Gases under pressure : Compressed gas Contains gas under pressure; may explode if heated.					

Control Measures:			
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Use only outdoors or in a well-ventilated area. Storage: Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Training to be given to new staff. Data sheets to be read and understood in full by operatives. Store in a well-ventilated place.			
Is health surveillance or monitoring required? Yes ☐ No ☒			
Personal Protective Equipment			
 ☐ Dust mask		 ☐ Visor	
 ☐ Respirator		 ☒ Goggles	To prevent accidental spray getting into eyes.
 ☐ Gloves		 ☐ Overalls	
 ☐ Footwear		 ☐ Other	
First Aid Measures			
General: Take off immediately all contaminated clothing. First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing. First-aid measures after skin contact Gently wash with plenty of soap and water. First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention. First-aid measures after ingestion: Immediately consult a doctor/medical service. Fire fighting measures Suitable extinguishing media Carbon dioxide. Water spray. Dry powder. Alcohol resistant foam. Unsuitable extinguishing media Do not use a heavy water stream.			
Storage			
Mobile storage is to be in work vehicle. Placed in separate container from other items with lids firmly on the cans. Cans should be secured when in transit. Vehicle to be locked when unattended. 5 cartiges max to be transported at any one time. Cans can be stored upright or on their side. To be stored out of direct sunlight and below 50°C. Storage at depot, Locked COSHH box. Stored at less than 50°C and out of all sunlight. Max cans to be stored 10 cartiges.			
Disposal of Substances & Contaminated Containers			
Hazardous Waste ☒ Skip ☐ Return to Depot ☒ Return to Supplier ☐ Other ☐ Dispose of contents/container in accordance with local regulation			

Is exposure adequately controlled?	Yes ☒ No ☐
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What further action needs to be taken		
Action	By Who	By what date
Continued training where applicable	James Palmer (director)	As and when required. This assessment is to be reviewed annually.

Assessed by James Palmer

Date: 14/09/2021

Review Date: 14/09/2022