ICCONS PX Powder Loads

Iccons

Chemwatch Hazard Alert Code: 4

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Chemwatch: **72-7613** Version No: **9.1**

Safety Data Sheet according to Work Health and Safety Regulations (Hazardous Chemicals) 2023 and ADG requirements

SECTION 1 Identification of the substance / mixture and of the company / undertaking

Product Identifier

Product name	ICCONS PX Powder Loads
Chemical Name	Not Applicable
Synonyms	Rimfire Cartridge for power devices, 22, 25, 27 Caliber Power tool Round, Power Load, Powder Load, Booster
Proper shipping name	CARTRIDGES, POWER DEVICE (contains nitrocellulose and nitroglycerin)
Chemical formula	Not Applicable
Other means of identification	Not Available

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses Rimfire Powertool loaded round.

Details of the manufacturer or supplier of the safety data sheet

The state of the s	
Registered company name	Iccons
Address	383 Frankston Dandenong Road, Dandenong South VIC 3175 Australia
Telephone	+61 3 9706 4344
Fax	Not Available
Website	www.iccons.com.au
Email	info@iccons.com.au

Emergency telephone number

Association / Organisation	CHEMWATCH EMERGENCY RESPONSE (24/7)
Emergency telephone numbers	+61 1800 951 288
Other emergency telephone numbers	+61 3 9573 3188

Once connected and if the message is not in your preferred language then please dial 01

SECTION 2 Hazards identification

Classification of the substance or mixture

Poisons Schedule	Not Applicable
Classification ^[1]	Explosives Division 1.4, Acute Toxicity (Oral) Category 2, Serious Eye Damage/Eye Irritation Category 2A, Hazardous to the Aquatic Environment Long-Term Hazard Category 2
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

Label elements

Hazard pictogram(s)







Signal word

Danger

Hazard statement(s)

H204	Fire or projection hazard.
H300	Fatal if swallowed.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statement(s) Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	
P234	Keep only in original packaging.	
P250	Do not subject to grinding/shock/sources of friction.	
P264	Wash all exposed external body areas thoroughly after handling.	

Chemwatch: 72-7613

ICCONS PX Powder Loads

Page 2 of 15 Issue Date: 11/06/2024 Print Date: 11/06/2024

P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves, protective clothing, eye protection, face protection and hearing protection.
P240	Ground and bond container and receiving equipment.
P273	Avoid release to the environment.

Precautionary statement(s) Response

P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician/first aider.	
P330	Rinse mouth.	
P370+P372+P380+P373	In case of fire: Explosion risk. Evacuate area. DO NOT fight fire when fire reaches explosives.	
P370+P380+P375	In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P337+P313	If eye irritation persists: Get medical advice/attention.	
P391	Collect spillage.	

Precautionary statement(s) Storage

P405	Store locked up.
P401	Store in accordance with local/regional/national/international regulations.

Precautionary statement(s) Disposal

P501	Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.
P503	Refer to manufacturer or supplier for information on disposal/recovery/recycling.

SECTION 3 Composition / information on ingredients

Substances

Version No: 9.1

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
7440-50-8	50-65	copper
7440-66-6	15-32	zinc
9004-70-0	6-14	<u>nitrocellulose</u>
55-63-0	0.5-2	nitroglycerin
84-74-2	0.5-2	dibutyl phthalate
15245-44-0	0.1-1	lead styphnate
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L * EU IOELVs available	

SECTION 4 First aid measures

Description of first aid measures

If this product comes in contact with the eves:

Immediately hold eyelids apart and flush the eye continuously with running water.

▶ Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.

- Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.
- Transport to hospital or doctor without delay. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
- Generally not applicable.

Skin Contact

Eye Contact

If skin or hair contact occurs:

- Immediately flush body and clothes with large amounts of water, using safety shower if available.
- Quickly remove all contaminated clothing, including footwear.
- Wash skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre.
- Transport to hospital, or doctor.
- Immediately wash contaminated skin with plenty of soap and water. Immediately seek medical advice.
- Wearing gloves, remove all contaminated clothing and loosen remaining clothing.
- Allow patient to assume comfortable position, keep warm.
- ▶ Keep at rest until fully recovered.
- If breathing has stopped or is shallow apply artificial respiration at once.
- In the event of cardiac arrest apply external cardiac massage.
 If breathing is laboured and patient cyanotic (blue), ensure airways are clear and have qualified person give oxygen through a face mask.

For thermal burns:

- Decontaminate area around burn.
- Consider the use of cold packs and topical antibiotics.

For first-degree burns (affecting top layer of skin)

- ▶ Hold burned skin under cool (not cold) running water or immerse in cool water until pain subsides.
- Use compresses if running water is not available.
- ▶ Cover with sterile non-adhesive bandage or clean cloth.
- Do NOT apply butter or ointments; this may cause infection.
- Give over-the counter pain relievers if pain increases or swelling, redness, fever occur.
- For second-degree burns (affecting top two layers of skin)
- Cool the burn by immerse in cold running water for 10-15 minutes.
- Use compresses if running water is not available.
- ▶ Do NOT apply ice as this may lower body temperature and cause further damage.

Chemwatch: 72-7613 Page 3 of 15 Issue Date: 11/06/2024 Version No. 9.1 Print Date: 11/06/2024

ICCONS PX Powder Loads

▶ Do NOT break blisters or apply butter or ointments; this may cause infection. ▶ Protect burn by cover loosely with sterile, nonstick bandage and secure in place with gauze or tape. To prevent shock: (unless the person has a head, neck, or leg injury, or it would cause discomfort): Lay the person flat. ▶ Elevate feet about 12 inches. • Elevate burn area above heart level, if possible. Cover the person with coat or blanket. Seek medical assistance For third-degree burns Seek immediate medical or emergency assistance. In the mean time: Protect burn area cover loosely with sterile, nonstick bandage or, for large areas, a sheet or other material that will not leave lint in wound. Separate burned toes and fingers with dry, sterile dressings. ▶ Do not soak burn in water or apply ointments or butter; this may cause infection. ▶ To prevent shock see above. For an airway burn, do not place pillow under the person's head when the person is lying down. This can close the airway. Have a person with a facial burn sit up Check pulse and breathing to monitor for shock until emergency help arrives. Immediately apply cold water to burn either by immersion or wrapping with saturated clean cloth. DO NOT remove or cut away clothing over burnt areas. DO NOT pull away clothing which has adhered to the skin as this can cause further injury. ▶ DO NOT break blister or remove solidified material Quickly cover wound with dressing or clean cloth to help prevent infection and to ease pain. For large burns, sheets, towels or pillow slips are ideal; leave holes for eyes, nose and mouth. ▶ DO NOT apply ointments, oils, butter, etc. to a burn under any circumstances Water may be given in small quantities if the person is conscious. Alcohol is not to be given under any circumstances Reassure. Treat for shock by keeping the person warm and in a lying position. ▶ Seek medical aid and advise medical personnel in advance of the cause and extent of the injury and the estimated time of arrival of the patient. Generally not applicable. If fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as Inhalation trained. Perform CPR if necessary. Transport to hospital, or doctor, without delay. Remove victim from exposure - avoid becoming a casualty. Seek immediate medical advice and treat as for skin absorption. Generally not applicable. ▶ IF SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY. For advice, contact a Poisons Information Centre or a doctor. Urgent hospital treatment is likely to be needed. In the mean time, qualified first-aid personnel should treat the patient following observation and employing supportive measures as indicated by the patient's condition. If the services of a medical officer or medical doctor are readily available, the patient should be placed in his/her care and a copy of the SDS should be provided. Further action will be the responsibility of the medical specialist. If medical attention is not available on the worksite or surroundings send the patient to a hospital together with a copy of the SDS. Ingestion Where medical attention is not immediately available or where the patient is more than 15 minutes from a hospital or unless instructed otherwise: INDUCE vomiting with fingers down the back of the throat, ONLY IF CONSCIOUS. Lean patient forward or place on left side (head-

down position, if possible) to maintain open airway and prevent aspiration.

NOTE: Wear a protective glove when inducing vomiting by mechanical means.

Generally not applicable.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically

SECTION 5 Firefighting measures

Extinguishing media

▶ DO NOT use halogenated fire extinguishing agents.

Metal dust fires need to be smothered with sand, inert dry powders.

DO NOT USE WATER, CO2 or FOAM

- ▶ Use DRY sand, graphite powder, dry sodium chloride based extinguishers, G-1 or Met L-X to smother fire.
- Confining or smothering material is preferable to applying water as chemical reaction may produce flammable and explosive hydrogen gas.
- ▶ Chemical reaction with CO2 may produce flammable and explosive methane
- If impossible to extinguish, withdraw, protect surroundings and allow fire to burn itself out.
- WARNING: Deliver water spray or fog from a safe distance only.

Special hazards arising from the substrate or mixture

Fire Incompatibility

- ▶ Reacts with acids producing flammable / explosive hydrogen (H2) gas
- Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

Advice for firefighters

Fire Fighting WARNING: EXPLOSIVE MATERIALS / ARTICLES PRESENT!

- Evacuate all personnel and move upwind.
 - ▶ Prevent re-entry.
 - Alert Fire Brigade and tell them location and nature of hazard.
 - May detonate and burning material may be propelled from fire.
 - Wear full-body protective clothing with breathing apparatus.
 - Prevent, by any means available, spillage and fire effluent from entering drains and water courses.

Chemwatch: 72-7613 Page 4 of 15 Issue Date: 11/06/2024

Version No. 9.1 Print Date: 11/06/2024 **ICCONS PX Powder Loads**

- Fight fire from safe distances and from protected locations.
- Use flooding quantities of water.
- DO NOT approach containers or packages suspected to be hot.
- ► Cool any exposed containers not involved in fire from a protected location.

Slight hazard when exposed to heat, flame and oxidisers.

- DO NOT disturb burning dust. Explosion may result if dust is stirred into a cloud, by providing oxygen to a large surface of hot metal.
- ▶ DO NOT use water or foam as generation of explosive hydrogen may result

With the exception of the metals that burn in contact with air or water (for example, sodium), masses of combustible metals do not represent unusual fire risks because they have the ability to conduct heat away from hot spots so efficiently that the heat of combustion cannot be maintained - this means that it will require a lot of heat to ignite a mass of combustible metal. Generally, metal fire risks exist when sawdust, machine shavings and other metal 'fines' are present.

Metal powders, while generally regarded as non-combustible:

- May burn when metal is finely divided and energy input is high.
- May react explosively with water.
 May be ignited by friction, heat, sparks or flame.
- May REIGNITE after fire is extinguished.
- Will burn with intense heat.

Division 1.4 Substances, mixtures and articles which present no significant hazard: substances, mixtures and articles which present only a small hazard in the event of ignition or initiation. The effects are largely confined to the package and no projection of fragments of appreciable size or range is to be expected. An external fire shall not cause virtually instantaneous explosion of almost the entire contents of the package.

Combustion products include:

carbon monoxide (CO)

carbon dioxide (CO2)

metal oxides

nitrogen oxides (NOx)

Fire/Explosion Hazard

other pyrolysis products typical of burning organic material.

When aluminium oxide dust is dispersed in air, firefighters should wear protection against inhalation of dust particles, which can also contain hazardous substances from the fire absorbed on the alumina particles

Articles and manufactured articles may constitute a fire hazard where polymers form their outer layers or where combustible packaging remains in place.

Certain substances, found throughout their construction, may degrade or become volatile when heated to high temperatures. This may create a secondary hazard.

Explosions can occur with coils of foil that have been submerged or partially submerged in water for an extended period of time. Water can penetrate between the layers of foil, react with the aluminum surface and generate heat and hydrogen gas. When the coils are removed from the cooling effects of the water, rapid temperature increases can occur causing steam explosions which result in the rupture of the coils and discharge of debris.

Coils of foil may be a potential hazard under the following conditions:

- Coil has been annealed (annealing removes residual oil that could prevent penetration of water
- Foil is very thin gauge (5-9 µm thickness which increases surface area)
- Coil has been immersed for an extended period of time (several hours or more)
- Wetted coil has recently been removed from the cooling effects of the water

In such situations, the coils should be isolated (30 meters from any personnel) for at least 72 hours as soon as possible after removal from the water. Coils making crackling sounds or emitting steam should not be approached or transported in commerce. Wetted coils should not be charged into a furnace for remelting until completely dry.

CARE: Contamination of heated / molten liquid with water may cause violent steam explosion, with scattering of hot contents.

HAZCHEM

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Environmental hazard - contain spillage.

WARNING!: EXPLOSIVE

BLAST and/or PROJECTION and/or FIRE HAZARD

- Clean up all spills immediately.
- Avoid inhalation of the material and avoid contact with eyes and skin. Wear impervious gloves and safety glasses.
- Minor Spills
 - Remove all ignition sources.
 - Use spark-free tools when handling.
 - Sweep into non-sparking containers or barrels and moisten with water.
 - ▶ Place spilled material in clean, sealable, labelled container for disposal
 - Flush area with large amounts of water.

Major Spills

- Environmental hazard contain spillage.
- Do not use compressed air to remove metal dusts from floors, beams or equipment Vacuum cleaners, of flame-proof design, should be used to minimise dust accumulation.
- Use non-sparking handling equipment, tools and natural bristle brushes.
- Provide grounding and bonding where necessary to prevent accumulation of static charges during metal dust handling and transfer operations
- Cover and reseal partially empty containers.
- · Do not allow chips, fines or dusts to contact water, particularly in enclosed areas,

WARNING!: EXPLOSIVE.

- Clear area of personnel and move upwind.
- Alert Fire Brigade and tell them location and nature of hazard.
- May be violently or explosively reactive.
- Wear full body protective clothing with breathing apparatus.
- Consider evacuation (or protect in place).
- In case of transport accident notify Police, Emergency Authority, Competent Explosives Authority or Manufacturer.
- No smoking, naked lights, heat or ignition sources.
- Increase ventilation.
- Use extreme caution to prevent physical shock.
- Clean up all spills immediately.
- Wear protective clothing, safety glasses, dust mask, gloves
- Secure load if safe to do so. Bundle/collect recoverable product.

Chemwatch: 72-7613 Page 5 of 15 Issue Date: 11/06/2024

Version No: 9.1 Print Date: 11/06/2024 **ICCONS PX Powder Loads**

- Use dry clean up procedures and avoid generating dust.
- ▶ Vacuum up (consider explosion-proof machines designed to be grounded during storage and use).
- Water may be used to prevent dusting.

Store away from incompatible materials.

- Collect remaining material in containers with covers for disposal.
- Flush spill area with water.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 Handling and storage

Precautions for safe handling ▶ Handle gently. Use good occupational work practice. ▶ Observe manufacturer's storage and handling recommendations contained within this SDS. Avoid all personal contact, including inhalation. Avoid smoking, naked lights, heat or ignition sources. Safe handling Explosives must not be struck with metal implements. ▶ Avoid mechanical and thermal shock and friction. Use in a well ventilated area. Avoid contact with incompatible materials ▶ When handling **DO NOT** eat, drink or smoke Store cases in a well ventilated magazine licensed for the appropriate Class, Division and Compatibility Group. ▶ Rotate stock to prevent ageing. Use on FIFO (first in-first out) basis Observe manufacturer's storage and handling recommendations contained within this SDS. Store in a cool place in original containers. Keep containers securely sealed. Other information No smoking, naked lights, heat or ignition sources. Store in an isolated area away from other materials ▶ Keep storage area free of debris, waste and combustibles. Protect containers against physical damage

Conditions for safe storage, including any incompatibilities		
Suitable container	Generally packaging as originally supplied with the article or manufactured item is sufficient to protect against physical hazards. If repackaging is required ensure the article is intact and does not show signs of wear. As far as is practicably possible, reuse the original packaging or something providing a similar level of protection to both the article and the handler. • CARE: Packing of high density product in light weight metal or plastic packages may result in container collapse with product release • All packaging for Class 1 Goods shall be in accordance with the requirements of the relevant Code for the transport of Dangerous Goods. • Class 1 is unique in that the type of packaging used frequently has a very decisive effect on the hazard and therefore on the assignment to a particular division • Heavy gauge metal packages / Heavy gauge metal drums	
Storage incompatibility	Avoid storage with oxidisers, acids, caustics and Class A B explosives. Segregate from alcohol, water. Avoid reaction with oxidising agents, bases and strong reducing agents.	

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	copper	Copper (fume)	0.2 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	copper	Copper, dusts & mists (as Cu)	1 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	nitroglycerin	Nitroglycerine (NG)	0.05 ppm / 0.46 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	dibutyl phthalate	Dibutyl phthalate	5 mg/m3	Not Available	Not Available	Not Available

Emergency Limits

Ingredient	TEEL-1	TEEL-2	TEEL-3
copper	3 mg/m3	33 mg/m3	200 mg/m3
zinc	6 mg/m3	21 mg/m3	120 mg/m3
nitroglycerin	0.1 mg/m3	2 mg/m3	75 mg/m3
dibutyl phthalate	15 mg/m3	1,600 mg/m3	9300* mg/m3

Ingredient	Original IDLH	Revised IDLH
copper	100 mg/m3	Not Available
zinc	Not Available	Not Available
nitrocellulose	Not Available	Not Available
nitroglycerin	75 mg/m3	Not Available
dibutyl phthalate	4,000 mg/m3	Not Available
lead styphnate	100 mg/m3	Not Available

Occupational Exposure Banding

Chemwatch: 72-7613 Page 6 of 15 Version No: 9.1

ICCONS PX Powder Loads

Issue Date: 11/06/2024 Print Date: 11/06/2024

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit	
lead styphnate	E	≤ 0.01 mg/m³	
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.		

MATERIAL DATA

Exposure controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use.

Employers may need to use multiple types of controls to prevent employee overexposure.

Appropriate engineering controls

- Employees exposed to confirmed human carcinogens should be authorized to do so by the employer, and work in a regulated area.
- Work should be undertaken in an isolated system such as a "glove-box". Employees should wash their hands and arms upon completion of the assigned task and before engaging in other activities not associated with the isolated system.

Articles or manufactured items, in their original condition, generally don't require engineering controls during handling or in normal use. Exceptions may arise following extensive use and subsequent wear, during recycling or disposal operations where substances, found in the article, may be released to the environment.

Engineering controls for explosive articles are designed to reduce or eliminate fragmentation and/or blast effects either by suppression of the source of detonation or by protection at the exposed location, or both. Barricades, shields, contained detonation chambers, and "zero quantity-distance (Q-D)" magazines are examples of engineering controls.

Engineering controls are designed and tested in a rigorous fashion. The construction of the engineering control must be carefully duplicated in field applications to assure it will function properly.

It is thus imperative that engineering controls be built exactly in accordance with the design package, and that they be used only for the articles (e.g.munitions) for which they are authorised.

Individual protection protective equipment

Eye and face protection









measures, such as personal

- Safety glasses with unperforated side shields may be used where continuous eye protection is desirable, as in laboratories; spectacles are not sufficient where complete eye protection is needed such as when handling bulk-quantities, where there is a danger of splashing, or if the material may be under pressure.
- Chemical goggles. Whenever there is a danger of the material coming in contact with the eyes; goggles must be properly fitted. [AS/NZS 1337.1, EN166 or national equivalent]
- Full face shield (20 cm, 8 in minimum) may be required for supplementary but never for primary protection of eyes; these afford face protection
- Alternatively a gas mask may replace splash goggles and face shields.
- Contact lenses may pose a special hazard: soft contact lenses may absorb and concentrate irritants. A written policy document. describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable.
- Safety glasses with side shields
 - Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]
 - Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59].

No special equipment required due to the physical form of the product.

Skin protection

See Hand protection below

▶ Elbow length PVC gloves

Wear physical protective gloves, e.g. leather

- Heavy weight Rubber gloves
- ▶ When handling hot materials wear heat resistant, elbow length gloves.
- Rubber gloves are not recommended when handling hot objects, materials

Hands/feet protection

▶ Protective gloves eg. Leather gloves or gloves with Leather facing

Non-sparking or conductive footwear essential. Conductive footwear describes a boot or shoe with a sole made from a conductive compound chemically bound to the bottom components, for permanent control to electrically ground the foot an shall dissipate static electricity from the body to reduce the possibility of ignition of volatile compounds. Electrical resistance must range between 0 to 500,000 ohms. Conductive shoes should be stored in lockers close to the room in which they are worn. Personnel who have been issued conductive footwear should not wear them from their place of work to their homes and return.

Body protection

See Other protection below

Other protection

- Employees working with confirmed human carcinogens should be provided with, and be required to wear, clean, full body protective clothing (smocks, coveralls, or long-sleeved shirt and pants), shoe covers and gloves prior to entering the regulated area. [AS/NZS ISO 6529:2006 or national equivalent]
- Employees engaged in handling operations involving carcinogens should be provided with, and required to wear and use half-face filtertype respirators with filters for dusts, mists and fumes, or air purifying canisters or cartridges. A respirator affording higher levels of protection may be substituted. [AS/NZS 1715 or national equivalent]
- Emergency deluge showers and eyewash fountains, supplied with potable water, should be located near, within sight of, and on the same level with locations where direct exposure is likely.
- Prior to each exit from an area containing confirmed human carcinogens, employees should be required to remove and leave protective clothing and equipment at the point of exit and at the last exit of the day, to place used clothing and equipment in impervious containers at the point of exit for purposes of decontamination or disposal. The contents of such impervious containers must be identified with suitable labels. For maintenance and decontamination activities, authorized employees entering the area should be provided with and required to wear clean, impervious garments, including gloves, boots and continuous-air supplied hood.
- Prior to removing protective garments the employee should undergo decontamination and be required to shower upon removal of the garments and hood.

Chemwatch: **72-7613** Page **7** of **15**

ICCONS PX Powder Loads

Page 7 of 15 Issue Date: 11/06/2024
Print Date: 11/06/2024

- ▶ When handling hot or molten liquids, wear trousers or overalls outside of boots, to avoid spills entering boots. For handling explosives or explosive compositions:
- Wear close-fitting flame-protection treated clothing closed at the neck and sleeves.
- ▶ Cotton underwear, socks and conductive shoes are recommended to avoid human static discharge.

Manufacture may require:

- Non-static flame retardant treated clothing
- Access to deluge Safety shower
- Barrier cream.

No special equipment required due to the physical form of the product.

Recommended material(s)

Version No: 9.1

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

ICCONS PX Powder Loads

Material	CPI
BUTYL	A
NATURAL RUBBER	A
NATURAL+NEOPRENE	A
NEOPRENE	A
NEOPRENE/NATURAL	A
NITRILE	A
PE/EVAL/PE	A
PVA	A
VITON	A

^{*} CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

Respiratory protection

Type A-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	A-AUS P2	-	A-PAPR-AUS / Class 1 P2
up to 50 x ES	-	A-AUS / Class 1 P2	-
up to 100 x ES	-	A-2 P2	A-PAPR-2 P2 ^

^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

Respiratory protection not normally required due to the physical form of the product. Where significant concentrations of the material are likely to enter the breathing zone, a Class P3 respirator may be required.

Class P3 particulate filters are used for protection against highly toxic or highly irritant particulates.

Filtration rate: Filters at least 99.95% of airborne particles

Suitable for:

- \cdot Relatively small particles generated by mechanical processes eg. grinding, cutting, sanding, drilling, sawing.
- \cdot Sub-micron thermally generated particles e.g. welding fumes, fertilizer and bushfire smoke.
- · Biologically active airborne particles under specified infection control applications e.g. viruses, bacteria, COVID-19, SARS
- · Highly toxic particles e.g. Organophosphate Insecticides, Radionuclides, Asbestos Note: P3 Rating can only be achieved when used with a Full Face Respirator or Powered Air-Purifying Respirator (PAPR). If used with any other respirator, it will only provide filtration protection up to a P2 rating. For molten materials:

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Information on basic physical	and chemical properties		
Appearance	Cylindrical brass cartridge.		
Physical state	Manufactured	Relative density (Water = 1)	Not Available
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Applicable	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Applicable	Viscosity (cSt)	Not Applicable
Initial boiling point and boiling range (°C)	Not Applicable	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Applicable	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Applicable
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Applicable
Vapour pressure (kPa)	Not Applicable	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Applicable
Vapour density (Air = 1)	Not Applicable	VOC g/L	Not Applicable

SECTION 10 Stability and reactivity

Reactivity

See section 7

^{*} Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

Chemwatch: **72-7613**Version No: **9.1**

ICCONS PX Powder Loads

Issue Date: 11/06/2024 Print Date: 11/06/2024

Chemical stability	 Presence of shock and friction Presence of heat source and ignition source Product is considered stable under normal handling conditions. Stable under normal storage conditions. Hazardous polymerization will not occur. Avoid contact with other chemicals.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 Toxicological information

Information	on	toxicologica	I effects
-------------	----	--------------	-----------

When the product is fired, a small amount of particles may be generated which may be slightly irritating to the respiratory tract.

Strong evidence exists that exposure to the material may produce very serious irreversible damage (other than carcinogenesis, mutagenesis and teratogenesis) following a single exposure by inhalation.

Evidence shows, or practical experience predicts, that the material produces irritation of the respiratory system, in a substantial number of

individuals, following inhalation. In contrast to most organs, the lung is able to respond to a chemical insult by first removing or neutralising the irritant and then repairing the damage. The repair process, which initially evolved to protect mammalian lungs from foreign matter and antigens, may however, produce further lung damage resulting in the impairment of gas exchange, the primary function of the lungs. Respiratory tract irritation often results in an inflammatory response involving the recruitment and activation of many cell types, mainly derived from the vascular system.

Inhalation hazard is increased at higher temperatures.

Inhalation of fume may aggravate a pre-existing respiratory condition such as asthma, bronchitis, emphysema

Inhalation of dusts, generated by the material, during the course of normal handling, may produce severely toxic effects; these may be fatal.

Ingestion

Inhaled

Strong evidence exists that exposure to the material may produce very serious irreversible damage (other than carcinogenesis, mutagenesis and teratogenesis) following a single exposure by swallowing.

Not normally a hazard due to physical form of product.

Considered an unlikely route of entry in commercial/industrial environments

Severely toxic effects may result from the accidental ingestion of the material; animal experiments indicate that ingestion of less than 5 gram may be fatal or may produce serious damage to the health of the individual.

Skin Contact

Strong evidence exists that exposure to the material may produce very serious irreversible damage (other than carcinogenesis, mutagenesis and teratogenesis) following a single exposure by skin contact.

The material is not thought to be a skin irritant (i.e. is unlikely to produce irritant dermatitis as described in EC Directives using animal models). Temporary discomfort, however, may result from prolonged dermal exposures. Good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.

Open cuts, abraded or irritated skin should not be exposed to this material

Particles and foreign bodies produced by high speed processes may be penetrate the skin. Even after the wound heals persons with retained foreign bodies may experiencing sharp pain with movement or pressure over the site. Discolouration or a visible mass under the epidermis may be obvious.

Numbness or tingling ("pins and needles"), with decreased sensation, may be the result of a foreign body pressing against nerves. Persons with diabetes or a history of vascular problems have a higher potential for acquiring an infection Irritation and skin reactions are possible with sensitive skin

Skin contact with the material may be harmful; systemic effects may result following absorption.

Eye

When the product is fired, a small amount of particles may be generated which may be slightly irritating to the eyes. Evidence exists, or practical experience predicts, that the material may cause eye irritation in a substantial number of individuals and/or may produce significant ocular lesions which are present twenty-four hours or more after instillation into the eye(s) of experimental animals. Repeated or prolonged eye contact may cause inflammation characterised by temporary redness (similar to windburn) of the conjunctiva (conjunctivitis); temporary impairment of vision and/or other transient eye damage/ulceration may occur.

Long-term exposure to respiratory irritants may result in disease of the airways involving difficult breathing and related systemic problems. On the basis, primarily, of animal experiments, the material may be regarded as carcinogenic to humans. There is sufficient evidence to provide a strong presumption that human exposure to the material may result in cancer on the basis of:

- appropriate long-term animal studies
- other relevant information

There is sufficient evidence to provide a strong presumption that human exposure to the material may produce heritable genetic damage. There is sufficient evidence to provide a strong presumption that human exposure to the material may result in the development of heritable genetic damage, generally on the basis of

- appropriate animal studies,
- other relevant information

Chronic

Serious damage (clear functional disturbance or morphological change which may have toxicological significance) is likely to be caused by repeated or prolonged exposure. As a rule the material produces, or contains a substance which produces severe lesions. Such damage may become apparent following direct application in subchronic (90 day) toxicity studies or following sub-acute (28 day) or chronic (two-year) toxicity tests.

Exposure to the material may cause concerns for human fertility, generally on the basis that results in animal studies provide sufficient evidence to cause a strong suspicion of impaired fertility in the absence of toxic effects, or evidence of impaired fertility occurring at around the same dose levels as other toxic effects, but which are not a secondary non-specific consequence of other toxic effects.

Exposure to the material may cause concerns for humans owing to possible developmental toxic effects, generally on the basis that results in appropriate animal studies provide strong suspicion of developmental toxicity in the absence of signs of marked maternal toxicity, or at around the same dose levels as other toxic effects but which are not a secondary non-specific consequence of other toxic effects. Limited evidence suggests that repeated or long-term occupational exposure may produce cumulative health effects involving organs or biochemical systems.

ICCONS PX Powder Loads	TOXICITY Not Available	IRRITATION Not Available
copper	TOXICITY	IRRITATION

Page 9 of 15 Issue Date: 11/06/2024 Version No: 9.1 Print Date: 11/06/2024 **ICCONS PX Powder Loads**

	dermal (rat) LD50: >2000 mg/kg ^[1]	Eye: no adverse effect observed (not irritating) ^[1]	
	Inhalation (Rat) LC50: 0.733 mg/l4h ^[1]	Skin: no adverse effect observed (not irritating) ^[1]	
	Oral (Mouse) LD50; 0.7 mg/kg ^[2]		
	TOXICITY	IRRITATION	
zinc	Dermal (rabbit) LD50: 1130 mg/kg ^[2]	Eye: no adverse effect observed (not irritating) ^[1]	
	Oral (Rat) LD50: >2000 mg/kg ^[1]	Skin: no adverse effect observed (not irritating) ^[1]	
	TOXICITY	IRRITATION	
nitrocellulose	Oral (Rat) LD50: >5000 mg/kg ^[2]	Not Available	
	TOXICITY	IRRITATION	
nitroglycerin	dermal (rat) LD50: >9560 mg/kg ^[1]	Eye: no adverse effect observed (not irritating) ^[1]	
	Oral (Rat) LD50: 105 mg/kg ^[2]	Skin: adverse effect observed (irritating) ^[1]	
	TOXICITY	IRRITATION	
	Dermal (rabbit) LD50: >2000 mg/kg ^[2]	Eye: no adverse effect observed (not irritating) ^[1]	
dibutyl phthalate	Inhalation (Rat) LC50: >=15.68 mg/l4h ^[1]	Skin: no adverse effect observed (not irritating) ^[1]	
	Oral (Rat) LD50: 8000 mg/kg ^[2]		
	TOXICITY	IRRITATION	
land stockwarts	dermal (rat) LD50: >2000 mg/kg ^[1]	Eye: no adverse effect observed (not irritating) ^[1]	
lead styphnate	Inhalation (Rat) LC50: >5.05 mg/l4h ^[1]	Skin: adverse effect observed (irritating) ^[1]	
	Oral (Rat) LD50: >2000 mg/kg ^[1] Skin: no adverse effect observed (not irritating) ^[1]		
Legend:	Nalue obtained from Europe ECHA Registered Substances - Acceptable data extracted from RTECS - Register of Toxic Effect of Company of the Company of th	ute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise chemical Substances	
COPPER	Symptoms are tiredness, influenza like respiratory tract irritation wi for copper and its compounds (typically copper chloride): Acute toxicity: There are no reliable acute oral toxicity results awa male rats and 5 groups of 5 female rats received doses of 1000, 15 values of copper monochloride were 2,000 mg/kg bw or greater for died at both 1500 and 2000 mg/kg bw, and one at 1,000 mg/kg bw formation of scar and reddish changes were observed on application noted. In addition, a reddish or black urine was observed in female sensitive than male based on mortality and clinical signs. No reliable skin/eye irritation studies were available. The acute der cause skin irritation. Repeat dose toxicity: In repeated dose toxicity study performed a	dilable. In an acute dermal toxicity study (OECD TG 402), one group of 5 500 and 2000 mg/kg bw via dermal application for 24 hours. The LD50 male (no deaths observed) and 1,224 mg/kg bw for female. Four females. Symptom of the hardness of skin, an exudation of hardness site, the on sites in all treated animals. Skin inflammation and injury were also as at 2,000, 1,500 and 1,000 mg/kg bw. Female rats appeared to be more small study with copper monochloride suggests that it has a potential to according to OECD TG 422, copper monochloride was given orally 51 days to females at concentrations of 0, 1.3, 5.0, 20, and 80 mg/kg	
NITROGLYCERIN	effector in rats.	productive effector. Equivocal tumorigen by RTECS criteria. Reproductive	
DIBUTYL PHTHALATE	For dibutyl phthalate (DBP): In studies on rats, DBP is absorbed through the skin, although in <i>in vitro</i> studies human skin has been found to be less permeable than rat		

skin to this compound. Studies in laboratory animals indicate that DBP is rapidly absorbed from the gastrointestinal tract, distributed primarily to the liver and kidneys of rats and excreted in urine as metabolites following oral or intravenous administration. Following inhalation, it was consistently detected at low concentrations in the brain. Available data indicate that in rats, following ingestion, DBP is metabolised by nonspecific esterases mainly in the small intestine to yield mono- *n*-butyl phthalate (MBP) with limited subsequent biochemical oxidation of the alkyl side chain of MBP. MBP is stable and resistant to hydrolysis of the second ester group. Accumulation has not been observed in any organ. The profile of effects following exposure to DBP is similar to that of other phthalate esters, which, in susceptible species, can induce hepatomegaly, increased numbers of hepatic peroxisomes, foetotoxicity, teratogenicity and testicular damage

Acute toxicity: The acute toxicity of DBP in rats and mice is low. Signs of acute toxicity in laboratory animals include depression of activity, laboured breathing and lack of coordination. In a case of accidental poisoning of a worker who ingested approximately 10 grams of DBP, recovery was gradual within two weeks and complete after 1 month.

The material may produce peroxisome proliferation. Peroxisomes are single, membrane limited, cytoplasmic organelles that are found in the cells of animals, plants, fungi and protozoa. Peroxisome proliferators include certain hypolipidaemic drugs, phthalate ester plasticisers, industrial solvents, herbicides, food flavours, leukotriene D4 antagonists and hormones. Numerous studies in rats and mice have demonstrated the hepatocarcinogenic effects of peroxisome proliferators, and these compounds have been unequivocally established as carcinogens. However it is generally conceded that compounds inducing proliferation in rats and mice have little, if any, effect on human liver except at very high doses or extreme conditions of exposure.

Transitional Phthalate Esters: produced from alcohols with straight-chain carbon backbones of C4 to C6. This subcategory also includes a phthalate produced from benzyl alcohol as one ester group with the second ester composed of an alkyl group with a C5 carbon backbone and butyrate group. Phthalate esters containing >10% C4 to C6 molecules were conservatively included in this subcategory. Branched C7 and C8 isomers (di-iso-heptyl, di-iso-octyl and diethylhexyl phthalates) in contrast to linear dihexyl and dioctyl phthalate are members of this

Transitional phthalates have varied uses, but are largely used as plasticisers for PVC. Physicochemical properties also vary in that the lower molecular weight transitional phthalates are more water-soluble than higher molecular weight transitional phthalates, but none would be characterised as highly water soluble. Transitional phthalates have lower water solubility than the low molecular weight phthalates and except for butylbenzyl phthalate (BBP), existing data suggest they do not exhibit acute or chronic aquatic toxicity. What distinguishes some of the transitional phthalates from others is their greater mammalian toxicity potential, particularly with regard to reproductive and developmental effects, compared to either the low or high molecular weight phthalate subcategories

Chemwatch: **72-7613** Version No: 9.1

ICCONS PX Powder Loads

Issue Date: 11/06/2024 Print Date: 11/06/2024

	Acute Toxicity. The available data on phthalates spanning the carbon range from C4 to C6 indicate that phthalate esters in the transitional subcategory are minimally toxic by acute oral and dermal administration. The oral LD50 value for BBP exceeds 2 g/ kg, and for materials with higher molecular weights, the LD50 values exceed the maximum amounts which can be administered to the animals in a manner consistent with the principles of responsible animal use. One member of this subcategory, diethylhexyl phthalate (DEHP), has been tested for acute inhalation toxicity.			
COPPER & LEAD STYPHNATE	The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions. The significance of the contact allergen is not simply determined by its sensitisation potential: the distribution of the substance and the opportunities for contact with it are equally important. A weakly sensitising substance which is widely distributed can be a more important allergen than one with stronger sensitising potential with which few individuals come into contact. From a clinical point of view, substances are noteworthy if they produce an allergic test reaction in more than 1% of the persons tested.			
ZINC & NITROCELLULOSE & LEAD STYPHNATE	No significant acute toxicological data identified in literature search.			
ZINC & NITROGLYCERIN	The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). This form of dermatitis is often characterised by skin redness (erythema) and swelling epidermis. Histologically there may be intercellular oedema of the spongy layer (spongiosis) and intracellular oedema of the epidermis.			
Acute Toxicity	✓ Carcinogenicity X			
Skin Irritation/Corrosion	×	Reproductivity	×	
Serious Eye Damage/Irritation	~	STOT - Single Exposure	×	
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×	
Mutagenicity	×	Aspiration Hazard	×	

X − Data either not available or does not fill the criteria for classification
 ✓ − Data available to make classification

SECTION 12 Ecological information

	Endpoint	Test Duration (hr)	Species	Value	Source
ICCONS PX Powder Loads	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	NOEC(ECx)	48h	Fish	<0.001mg/L	4
aannar	EC50	72h	Algae or other aquatic plants	0.011- 0.017mg/L	4
copper	EC50	96h	Algae or other aquatic plants	0.03- 0.058mg/l	4
	EC50	48h	Crustacea	<0.001mg/L	4
	LC50	96h	Fish	0.003mg/L	2
	Endpoint	Test Duration (hr)	Species	Value	Source
	NOEC(ECx)	672h	Fish	0.003mg/L	4
	EC50	72h	Algae or other aquatic plants	0.005mg/l	4
zinc	EC50	96h	Algae or other aquatic plants	0.042mg/L	2
	EC50	48h	Crustacea	0.06- 0.08mg/L	
	LC50	96h	Fish	0.011- 0.014mg/L	4
	Endpoint	Test Duration (hr)	Species	Value	Source
nitrocellulose	EC50(ECx)	96h	Algae or other aquatic plants	138- 2400mg/L	4
	EC50	96h	Algae or other aquatic plants	138- 2400mg/L	4
	Endpoint	Test Duration (hr)	Species	Value	Source
	NOEC(ECx)	1440h	Fish	0.03mg/l	4
nitroglycerin	EC50	96h	Algae or other aquatic plants	0.1- 1.3mg/l	4
3.7	EC50	48h	Crustacea	38- 55mg/L	4
	LC50	96h	Fish	0.87- 2.21mg/L	4
dibutyl phthalate	Endpoint	Test Duration (hr)	Species	Value	Source
	ErC50	72h	Algae or other aquatic plants	1.2mg/l	1
	BCF	1344h	Fish	3.1-21.2	7
	NOEC(ECx)	72h	Algae or other aquatic plants	0.5mg/l	1
	EC50	96h		0.003mg/L	4

Chemwatch: 72-7613 Version No: 9.1

ICCONS PX Powder Loads

Page 11 of 15 Issue Date: 11/06/2024 Print Date: 11/06/2024

	EC50	72h	Algae or other aquatic plants	1.2mg/l	1
	EC50	48h	Crustacea	3.4mg/l	1
	LC50	96h	Fish	0.28- 0.44mg/l	4
	Endpoint	Test Duration (hr)	Species	Value	Source
lead styphnate	LC50	96h	Fish	0.008mg/L	2
	EC50	48h	Crustacea	0.38mg/L	2
	EC50	96h	Algae or other aquatic plants	2.655mg/L	2
	NOEC(ECx)	720h	Fish	0.001mg/L	2

Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

On the basis of available evidence concerning either toxicity, persistence, potential to accumulate and or observed environmental fate and behaviour, the material may present a danger, immediate or long-term and /or delayed, to the structure and/ or functioning of natural ecosystems.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

DO NOT discharge into sewer or waterways

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air	
nitroglycerin	LOW (Half-life = 14 days)	LOW (Half-life = 0.73 days)	
dibutyl phthalate	LOW (Half-life = 23 days)	LOW (Half-life = 3.08 days)	

Bioaccumulative potential

Ingredient	Bioaccumulation
dibutyl phthalate	LOW (BCF = 176)

Mobility in soil

Ingredient	Mobility
dibutyl phthalate	LOW (Log KOC = 1460)

SECTION 13 Disposal considerations

Waste treatment methods

- ▶ Recycle wherever possible or consult manufacturer for recycling options.
- Consult State Land Waste Management Authority for disposal
- Explosives which are surplus, deteriorated or considered unsafe for transport, storage or use shall be destroyed and the statutory authorities shall be notified.
- Explosives must not be thrown away, buried, discarded or placed with garbage.
- This material may be disposed of by burning or detonation but the operation must be performed under the control of a person competent in the destruction of explosives.

- Disposal by detonation: The explosives to be destroyed must be placed in direct contact with fresh priming charge in a hole which is at least 0.6 metre deep and then adequately stemmed.
- Product / Packaging disposal
- No detonators shall be inserted into defective explosives. ▶ Personnel must be evacuated to a safe distance prior to initiation/firing of the charge.

Disposal by burning:

- Make a sawdust bed or trail adequate for the quantity of explosives to be burned, approximately 400 mm wide and 40 mm deep, upon which the explosive will be laid.
- If sawdust is not available, newspaper may be used.
- Normal precautions shall be taken to avoid the spread of fire.
- Individual trails should not be closer together than 600 mm and should contain not more than 12 kg of explosive.
- ▶ DO NOT allow wash water from cleaning or process equipment to enter drains
- It may be necessary to collect all wash water for treatment before disposal.
- In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- Where in doubt contact the responsible authority.

SECTION 14 Transport information

Labels Required



Marine Pollutant



HAZCHEM

1YE

Land transport (ADG)

Chemwatch: **72-7613** Page **12** of **15** Version No: 9.1

ICCONS PX Powder Loads

Issue Date: 11/06/2024 Print Date: 11/06/2024

14.1. UN number or ID number		
14.2. UN proper shipping name	ARTRIDGES, POWER DEVICE (contains nitrocellulose and nitroglycerin)	
14.3. Transport hazard class(es)	Class 1.4S Subsidiary Hazard Not Applicable	
14.4. Packing group	Not Applicable	
14.5. Environmental hazard	Environmentally hazardous	
14.6. Special precautions for user	Special provisions 347 Limited quantity 0	

Air transport (ICAO-IATA / DGR)

All transport (ICAO-IATA / DGN	·)				
14.1. UN number	0323				
14.2. UN proper shipping name	Cartridges, power device (contains nitrocellulose and nitroglycerin)				
	ICAO/IATA Class	1.4S			
14.3. Transport hazard class(es)	ICAO / IATA Subsidiary Hazard Not Applicable				
ciass(es)	ERG Code	3L			
14.4. Packing group	Not Applicable				
14.5. Environmental hazard	Environmentally hazardous				
	Special provisions		A165 A802		
	Cargo Only Packing Instructions		134		
	Cargo Only Maximum Qty / Pack		100 kg		
14.6. Special precautions for user	Passenger and Cargo Packing Instructions		134		
	Passenger and Cargo Maximum Qty / Pack		25 kg		
	Passenger and Cargo Limited Quantity Packing Instructions		Forbidden		
	Passenger and Cargo Limited Ma	aximum Qty / Pack	Forbidden		
	Passenger and Cargo Limited Ma	aximum Qty / Pack	Forbidden		

Sea transport (IMDG-Code / GGVSee)

14.1. UN number	0323		
14.2. UN proper shipping name	CARTRIDGES, POWER DEVICE (contains nitrocellulose and nitroglycerin)		
14.3. Transport hazard	IMDG Class	1.48	
class(es)	IMDG Subsidiary Ha	azard Not Applicable	
14.4. Packing group	Not Applicable		
14.5 Environmental hazard	Marine Pollutant		
14.6. Special precautions for user	EMS Number	F-B , S-X	
	Special provisions	347	
	Limited Quantities	0	

14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
copper	Not Available
zinc	Not Available
nitrocellulose	Not Available
nitroglycerin	Not Available
dibutyl phthalate	Not Available
lead styphnate	Not Available

14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
copper	Not Available
zinc	Not Available
nitrocellulose	Not Available
nitroglycerin	Not Available
dibutyl phthalate	Not Available
lead styphnate	Not Available

Chemwatch: 72-7613 Page 13 of 15 Issue Date: 11/06/2024 Version No: 9.1

ICCONS PX Powder Loads

Print Date: 11/06/2024

SECTION 15 Regulatory information

Safety, health and environmental regulations / legislation specific for the substance or mixture

copper is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 4

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6

Australian Inventory of Industrial Chemicals (AIIC)

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

zinc is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australian Inventory of Industrial Chemicals (AIIC)

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

nitrocellulose is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australian Inventory of Industrial Chemicals (AIIC)

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

nitroglycerin is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 3

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 4

Australian Inventory of Industrial Chemicals (AIIC)

FEI Equine Prohibited Substances List - Controlled Medication

FEI Equine Prohibited Substances List (EPSL)

dibutyl phthalate is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australian Inventory of Industrial Chemicals (AIIC)

Chemical Footprint Project - Chemicals of High Concern List

lead styphnate is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6

Australian Inventory of Industrial Chemicals (AIIC)

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

Additional Regulatory Information

Not Applicable

National Inventory Status

National Inventory	Status	
Australia - AIIC / Australia Non- Industrial Use	Yes	
Canada - DSL	Yes	
Canada - NDSL	No (copper; zinc; nitrocellulose; nitroglycerin; dibutyl phthalate; lead styphnate)	
China - IECSC	No (lead styphnate)	
Europe - EINEC / ELINCS / NLP	No (nitrocellulose)	
Japan - ENCS	No (copper; zinc)	
Korea - KECI	Yes	
New Zealand - NZIoC	Yes	
Philippines - PICCS	No (lead styphnate)	
USA - TSCA	Yes	
Taiwan - TCSI	Yes	
Mexico - INSQ	Yes	
Vietnam - NCI	Yes	
Russia - FBEPH	No (lead styphnate)	
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.	

SECTION 16 Other information

Revision Date	11/06/2024
Initial Date	22/12/2016

SDS Version Summary

Page 14 of 15

ICCONS PX Powder Loads

Date of Sections Updated Version Update Hazards identification - Classification, Identification of the substance / mixture and of the company / undertaking -15/04/2024 8.1 Synonyms, Identification of the substance / mixture and of the company / undertaking - Use 9.1 11/06/2024 Transport Information

Other information

Version No: 9.1

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

Definitions and abbreviations

- ▶ PC TWA: Permissible Concentration-Time Weighted Average
- ▶ PC STEL: Permissible Concentration-Short Term Exposure Limit
- ▶ IARC: International Agency for Research on Cancer
- ACGIH: American Conference of Governmental Industrial Hygienists
- ▶ STEL: Short Term Exposure Limit
- TEEL: Temporary Emergency Exposure Limit,
- IDLH: Immediately Dangerous to Life or Health Concentrations
- ES: Exposure Standard
- OSF: Odour Safety Factor
- ▶ NOAEL: No Observed Adverse Effect Level
- LOAEL: Lowest Observed Adverse Effect Level
- ▶ TLV: Threshold Limit Value
- LOD: Limit Of Detection
- OTV: Odour Threshold Value
- ▶ BCF: BioConcentration Factors
- BEI: Biological Exposure IndexDNEL: Derived No-Effect Level
- ▶ PNEC: Predicted no-effect concentration
- ▶ AllC: Australian Inventory of Industrial Chemicals
- ▶ DSL: Domestic Substances List
- ▶ NDSL: Non-Domestic Substances List
- ▶ IECSC: Inventory of Existing Chemical Substance in China
- ▶ EINECS: European INventory of Existing Commercial chemical Substances
- ▶ ELINCS: European List of Notified Chemical Substances
- NLP: No-Longer Polymers
- ▶ ENCS: Existing and New Chemical Substances Inventory
- KECI: Korea Existing Chemicals Inventory
 NZIoC: New Zealand Inventory of Chemicals
- PICCS: Philippine Inventory of Chemicals and Chemical Substances
- ▶ TSCA: Toxic Substances Control Act
- ▶ TCSI: Taiwan Chemical Substance Inventory
- INSQ: Inventario Nacional de Sustancias Químicas
- NCI: National Chemical Inventory
 FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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TEL (+61 3) 9572 4700.

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Page **15** of **15** Issue Date: 11/06/2024 Chemwatch: 72-7613 Version No: 9.1 Print Date: 11/06/2024

ICCONS PX Powder Loads