

Winchester Australia Ltd

Chemwatch: 4898-60 Version No: 6.1.1.1 Safety Data Sheet according to WHS and ADG requirements Chemwatch Hazard Alert Code: 4 Issue Date: 13/03/2019 Print Date: 29/07/2019

L.GHS.AUS.EN

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifier

Product name	Combined Systems MODEL 2330 12ga CS Liquid Barricade Projectile	
Synonyms	Not Available	
Proper shipping name	AMMUNITION, TEAR-PRODUCING with burster, expelling charge or propelling charge	
Other means of identification	Not Available	
Relevant identified uses of the substance or mixture and uses advised against		
Relevant identified uses	Explosive product producing CS tear gas for crowd dispersal.	

Details of the supplier of the safety data sheet

Registered company name	Winchester Australia Ltd	
Address	5 Hays Road Moolap, Geelong VIC 3224 Australia	
Telephone	+61 3 5245 2400	
Fax	+61 3 5248 2409	
Website	Not Available	
Email	aedmondson@olin.com.au	

Emergency telephone number

Association / Organisation	Winchester Australia
Emergency telephone numbers	0418 158 337 All hours
Other emergency telephone numbers	Not Available

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

HAZARDOUS CHEMICAL. DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

CHEMWATCH HAZARD RATINGS

	Min	Max	
Flammability	1	1	
Toxicity	1		0 = Minimum
Body Contact	2		1 = Low 2 = Moderate
Reactivity	4		3 = High
Chronic	2		4 = Extreme

Poisons Schedule	Not Applicable	
Classification ^[1]	Explosive Division 1.4, Self Reactive Type A, Skin Corrosion/Irritation Category 2, Eye Irritation Category 2A, Carcinogenicity Category 2, Specific target organ toxicity - single exposure Category 3 (respiratory tract irritation), Specific target organ toxicity - repeated exposure Category 2, Chronic Aquatic Hazard Category 3	
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)	
H304	

H204	Fire or projection hazard.
H240	Heating may cause an explosion.

Continued...

Combined Systems MODEL 2330 12ga CS Liquid Barricade Projectile

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H351	Suspected of causing cancer.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.
Precautionary statement(s) Pr	revention
P201	Obtain special instructions before use.
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
P234	Keep only in original container.
P250	Do not subject to grinding/shock/sources of friction.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P281	Use personal protective equipment as required.
P220	Keep/Store away from clothing/organic material/combustible materials.
P240	Ground/bond container and receiving equipment.
P273	Avoid release to the environment.

Precautionary statement(s) Response

P308+P313	IF exposed or concerned: Get medical advice/attention.	
P321	Specific treatment (see advice on this label).	
P362	Take off contaminated clothing and wash before reuse.	
P370+P380	In case of fire: Evacuate area.	
P370+P380+P375	In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.	
P372	Explosion risk in case of fire.	
P374	Fight fire with normal precautions from a reasonable distance.	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P373	DO NOT fight fire when fire reaches explosives.	
P312	Call a POISON CENTER or doctor/physician if you feel unwell.	
P337+P313	If eye irritation persists: Get medical advice/attention.	
P302+P352	IF ON SKIN: Wash with plenty of soap and water.	
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.	
P332+P313	If skin irritation occurs: Get medical advice/attention.	
P370+P378	In case of fire: Use water spray/fog for extinction.	

Precautionary statement(s) Storage

P403+P235	Store in a well-ventilated place. Keep cool.	
P405	Store locked up.	
P411	Store at temperatures not exceeding 30°C/86°F (see storage requirements on SDS).	
P401	Store according to local regulations for explosives.	
P420	Store away from other materials.	

Precautionary statement(s) Disposal

P501 Dispose of contents/container in accordance with local regulations.	
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SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
75-09-2	>50	methylene chloride
2698-41-1	10-25	o-chlorobenzylidene malononitrile
9004-70-0	<10	nitrocellulose
55-63-0	<10	nitroglycerin
84-74-2	<10	dibutyl phthalate
122-39-4	<10	diphenylamine
12403-82-6	<1	lead styphnate, monobasic

SECTION 4 FIRST AID MEASURES

Description of first aid measures

Eye Contact	If this product comes in contact with the eyes: 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.
Skin Contact	If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Inhalation	 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 ainway, 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 trained. Perform CPR if necessary. Transport to hospital, or doctor. Inhalation of vapours or aerosols (mists, fumes) may cause lung oedema. Corrosive substances may cause lung damage (e.g. lung oedema, fluid in the lungs). As this reaction may be delayed up to 24 hours after exposure, affected individuals need complete rest (preferably in semi-recumbent posture) and must be kept under medical observation even if no symptoms are (yet) manifested. Before any such manifestation, the administration of a spray containing a dexamethasone derivative or beclomethasone derivative may be considered. This must definitely be left to a doctor or person authorised by him/her. (ICSC13719)
Ingestion	 Not considered a normal route of entry. For advice, contact a Poisons Information Centre or a doctor at once. Urgent hospital treatment is likely to be needed. If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Transport to hospital or doctor without delay.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

• WARNING: Deliver water spray or fog from a safe distance only.

Special hazards arising from the substrate or mixture

Fire Incompatibility	 Avoid contact with other explosives, pyrotechnics, solvents, adhesives, paints, cleaners and unauthorized metals, plastics, packing equipment and materials. Avoid contamination with acids, alkalis, reducing agents, amines and phosphorus.
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. 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. Equipment should be thoroughly decontaminated after use.
Fire/Explosion Hazard	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. Compatibility Group E explosives are articles containing a secondary detonating explosive substance, without means of initiation, with a propelling charge (other than one containing a flammable liquid or gel or hypergolic liquids) Individual devices will randomly explode. Will not mass explode if multiple devices are involved. In unusual cases, shrapnel may be thrown from exploding devices under containment
HAZCHEM	1YE

SECTION 6 ACCIDENTAL RELEASE MEASURES

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	WARNINGI: 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. • 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	 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. Use only spark-free shovels and explosion-proof equipment. Collect recoverable material and segregate from spilled material. Wash spill area with large quantities of water.

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

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling	9
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. 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. Avoid physical damage to containers. Always wash hands with soap and water after handling. Work clothes should be laundered separately. Under normal handling, no exposure to harmful materials will occur.
Other information	 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. 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. Check regularly for spills and leaks NOTE: If explosives need to be destroyed contact the Competent Authority.

Conditions for safe storage, including any incompatibilities

Suitable container	 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
Storage incompatibility	 Reacts with acids producing flammable / explosive hydrogen (H2) gas Avoid reaction with oxidising agents Avoid strong acids, acid chlorides, acid anhydrides and chloroformates.



X — Must not be stored together

0 — May be stored together with specific preventions

+ — May be stored together

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

Version No: 6.1.1.1

Combined Systems MODEL 2330 12ga CS Liquid Barricade Projectile

INGREDIENT DATA

methylene chloride	Methylene chloride	50 ppm / 174 mg/m3	Not Available	Not Available	Not Available
o-chlorobenzylidene malononitrile	o-Chlorobenzylidene malononitrile	Not Available	Not Available	0.05 ppm / 0.39 mg/m3	Not Available
nitroglycerin	Nitroglycerine (NG)	0.05 ppm / 0.46 mg/m3	Not Available	Not Available	Not Available
dibutyl phthalate	Dibutyl phthalate	5 mg/m3	Not Available	Not Available	Not Available
diphenylamine	Diphenylamine	10 mg/m3	Not Available	Not Available	Not Available
o- m ni	-chlorobenzylidene nalononitrile itroglycerin ibutyl phthalate	-chlorobenzylidene o-Chlorobenzylidene malononitrile itroglycerin Nitroglycerine (NG) ibutyl phthalate	-chlorobenzylidene nalononitrile o-Chlorobenzylidene malononitrile Not Available itroglycerin Nitroglycerine (NG) 0.05 ppm / 0.46 mg/m3 ibutyl phthalate Dibutyl phthalate 5 mg/m3	Not Not Available Not -chlorobenzylidene o-Chlorobenzylidene nalononitrile Not Available Not Not itroglycerin Nitroglycerine (NG) 0.05 ppm / 0.46 Not mg/m3 Not ibutyl phthalate Dibutyl phthalate 0.inbenv/amine Dibutyl phthalate	Nethylene chloride Methylene chloride 50 ppm / 174 mg/m3 Available Not Available -chlorobenzylidene nalononitrile o-Chlorobenzylidene malononitrile Not Available Not Available 0.05 ppm / 0.39 mg/m3 itroglycerin Nitroglycerine (NG) 0.05 ppm / 0.46 mg/m3 Not Available Not Available ibutyl phthalate Dibutyl phthalate 5 mg/m3 Not Available Not Available inbenvlamine Dibutyl phthalate 10 mg/m3 Not Not Available

Ingredient	Material name TEEL-1			TEEL-2	TEEL-3
methylene chloride	Methylene chloride; (Dichloromethane) Not Available		ble	Not Available	Not Available
o-chlorobenzylidene malononitrile	Chlorobenzylidene malononitrile, o-; (Tear Gas)	Not Availal	ble	Not Available	Not Available
nitroglycerin	Nitroglycerin	0.1 mg/m3		2 mg/m3	75 mg/m3
dibutyl phthalate	Dibutyl phthalate	15 mg/m3		84 mg/m3	9300 mg/m3
diphenylamine	Diphenylamine	30 mg/m3		180 mg/m3	220 mg/m3
Ingredient	Original IDLH		Revised IDLH		
methylene chloride	2,300 ppm / 2,000 ppm		Not Available		
o-chlorobenzylidene malononitrile	2 mg/m3		Not Available		
nitrocellulose	Not Available		Not Available		
nitroglycerin	75 mg/m3		Not Available		
dibutyl phthalate	4,000 mg/m3		Not Available		
diphenylamine	Not Available		Not Available		
lead styphnate, monobasic	100 mg/m3		Not Available		

MATERIAL DATA

Exposure controls

Appropriate engineering controls	Usually used outdoors.
Personal protection	
Eye and face protection	 Chemical goggles. Full face shield may be required for supplementary but never for primary protection of eyes. 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], [AS/NZS 1336 or national equivalent]
Skin protection	See Hand protection below
Hands/feet protection	 Wear physical protective gloves, e.g. leather Heavy weight Rubber gloves Rubber boots 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	No special equipment required due to the physical form of the product.

Recommended material(s)

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:

Combined Systems MODEL 2330 12ga CS Liquid Barricade Projectile

Material	CPI
BUTYL	С
CPE	С

Respiratory protection

Type AX-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	Half-Face	Full-Face	Powered Air
Protection Factor	Respirator	Respirator	Respirator

NATURAL RUBBER	С
NATURAL+NEOPRENE	С
NEOPRENE	С
NEOPRENE/NATURAL	С
NITRILE	С
PE/EVAL/PE	С
PVA	С
TEFLON	С
VITON	С
VITON/BUTYL	С
VITON/CHLOROBUTYL	С

* 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. -

* 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.

up to 10 x ES	AX-AUS P2	-	AX-PAPR-AUS / Class 1 P2
up to 50 x ES	-	AX-AUS / Class 1 P2	-
up to 100 x ES	-	AX-2 P2	AX-PAPR-2 P2 ^

^ - Full-face

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

- Respirators may be necessary when engineering and administrative controls do not adequately prevent exposures.
- The decision to use respiratory protection should be based on professional judgment that takes into account toxicity information, exposure measurement data, and frequency and likelihood of the worker's exposure ensure users are not subject to high thermal loads which may result in heat stress or distress due to personal protective equipment (powered, positive flow, full face apparatus may be an option).
- Published occupational exposure limits, where they exist, will assist in determining the adequacy of the selected respiratory protection. These may be government mandated or vendor recommended.
- Certified respirators will be useful for protecting workers from inhalation of particulates when properly selected and fit tested as part of a complete respiratory protection program.
- Use approved positive flow mask if significant quantities of dust becomes airborne.
- Try to avoid creating dust conditions.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance Solid dark grey metal container containing liquid and solid contents.

Physical state	Manufactured	Relative density (Water = 1)	Not Applicable
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	Not Applicable
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 Applicable	Taste	Not Available
Evaporation rate	Not Applicable	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Applicable
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Applicable	Gas group	Not Available
Solubility in water	Not Applicable	pH as a solution (1%)	Not Applicable
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
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. May detonate if case is punctured or severely damaged.
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 toxicological effects

Continued...

	Exposure to CS gas usually results in incapacitation after app constriction, sore eyes, runny nose, nausea and vomiting.	brox 20 secs exposure. Symptoms are coughing, dizziness, difficulty in breathing, with chest	
Ingestion			
Skin Contact	Not normally a hazard due to physical form of product. 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.		
Eye	Not normally a hazard due to physical form of product. The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. Irritation of the eyes may produce a heavy secretion of tears (lachrymation).		
Chronic	On the basis, primarily, of animal experiments, concern has been expressed that the material may produce carcinogenic or mutagenic effects; in respect of the available information, however, there presently exists inadequate data for making a satisfactory assessment. May cause damage to organs through prolonged or repeated exposure. Explosive components are completely sealed within the metal container. Under normal handling of this product, no exposure to harmful materials will occur.		
Combined Systems MODEL	ΤΟΧΙΟΙΤΥ	IRRITATION	
2330 12ga CS Liquid Barricade Projectile	Not Available	Not Available	
	ΤΟΧΙΟΙΤΥ	IRRITATION	
	dermal (rat) LD50: >2000 mg/kg ^[2]	Eye(rabbit): 162 mg - moderate	
methylene chloride	Inhalation (rat) LC50: 76 mg/l/4H ^[2]	Eye(rabbit): 500 mg/24hr - mild	
	Oral (rat) LD50: 985 mg/kg ^[2]	Skin (rabbit): 100mg/24hr-moderate	
		Skin (rabbit): 810 mg/24hr-SEVERE	
	тохісіту	IRRITATION	
	Oral (rat) LD50: 178 mg/kg ^[2]	Eye (man): 0.00062 mg Std. Draize	
o-chlorobenzylidene		Eye (man): 5 mg/m3/20S. SEVERE	
malononitrile		Eye: adverse effect observed (irritating) ^[1]	
		Skin (human): 10 mg/1H Mild	
		Skin: adverse effect observed (irritating) ^[1]	
	тохісіту	IRRITATION	
nitrocellulose	Oral (rat) LD50: >5000 mg/kg ^[2]	Not Available	
	тохісіту	IRRITATION	
nitroglycerin	dermal (rat) LD50: =29.2 mg/kg ^[2]	Eye: no adverse effect observed (not irritating) ^[1]	
	Oral (rat) LD50: 105 mg/kg ^[2]	Skin: adverse effect observed (irritating) ^[1]	
	тохісіту	IRRITATION	
	Dermal (rabbit) LD50: >2000 mg/kg ^[2]	Eye: no adverse effect observed (not irritating) ^[1]	
dibutyl phthalate	Inhalation (mouse) LC50: 12.5 mg/l/2H ^[2]	Skin: no adverse effect observed (not irritating) ^[1]	
	Oral (rat) LD50: 100 mg/kg ^[1]		
	ΤΟΧΙΟΙΤΥ	IRRITATION	
diphenylamine	Dermal (rabbit) LD50: >2000 mg/kg ^[2]	Eye: adverse effect observed (irritating) ^[1]	
	Oral (rat) LD50: 1120 mg/kg ^[2]	Skin: no adverse effect observed (not irritating) ^[1]	
	тохісіту	IRRITATION	
lead styphnate, monobasic	Not Available	Not Available	
Legend:	 Value obtained from Europe ECHA Registered Substances data extracted from RTECS - Register of Toxic Effect of chem 	s - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified nical Substances	
Legend.	data extracted from RTECS - Register of Toxic Effect of chem		

METHYLENE CHLORIDE dematitis is often characterised by skin redness (erythema) thickening of the epidermis. Histologically there may be intercellular oedema of the spongy layer (spongiosis) and intracellular oedema of the epidermis. Prolonged contact is unlikely, given the severity of response, but repeated exposures may produce severe ulceration.

WARNING: This substance has been classified by the IARC as Group 2A: Probably Carcinogenic to Humans. Inhalation (human) TCLo: 500 ppm/ 1 y - I Eye(rabbit): 10 mg - mild

O-CHLOROBENZYLIDENE MALONONITRILE	Allergic reactions which develop in the respiratory passages as bronchial asthma or rhinoconjunctivitis, are mostly the result of reactions of the allergen with specific antibodies of the IgE class and belong in their reaction rates to the manifestation of the immediate type. In addition to the allergen-specific potential for causing respiratory sensitisation, the amount of the allergen, the exposure period and the genetically determined disposition of the exposed person are likely to be decisive. Factors which increase the sensitivity of the mucosa may play a role in predisposing a person to allergy. They may be genetically determined or acquired, for example, during infections or exposure to irritant substances. Immunologically the low molecular weight substances become complete allergens in the organism either by binding to peptides or proteins (haptens) or after metabolism (prohaptens). Particular attention is drawn to so-called atopic diathesis which is characterised by an increased susceptibility to allergic rhinitis, allergic bronchial asthma and atopic eczema (neurodermatitis) which is associated with increased IgE synthesis. Exogenous allergic alveolitis is induced essentially by allergen specific immune-complexes of the IgG type; cell-mediated reactions (T lymphocytes) may be involved. Such allergy is of the delayed type with onset up to four hours following exposure. The effect of CS on a person will depend on whether it is packaged as a solution or used as an aerosol. The size of solution droplets and the size of the CS particulars after evaporation are factors determining its effect on the human body. The chemical reacts with moisture on the skin and in the eyes, causing a burning ones full of mucus, burning in the nose and throat areas, disorientation, dizziness and restricted breathing. It will also burn the skin where sweaty and or sunburned. In highly concentrated doses it can also induce severe coughing and vomiting. Almost all of the immediate effects wear off in a matter of minutes. Although
NITROGLYCERIN	Substance has been investigated as a tumorigen, mutagen and reproductive effector. Equivocal tumorigen by RTECS criteria. Reproductive effector in rats.
DIBUTYL PHTHALATE	For discip pinhales (DBP): In nucleon on XL, DBP a abacted through the skin, although in <i>in</i> vitro studies human skin has been found to be less permeable than not skin to this compound. Studies in laboratory animals indicate that DBP is rapidly absorbed from the gatarontestinal rand, distributed primary to be lever and kinetys of that and excered in unive as metabolised biolowing out or invariances administration. Takkov (mission), these constances mainly in the small intestine to judie in unive as metabolised biolowing out or invariances administration obtained. The display display display display display display display display display. The profile of effects biolowing exposure to DBP is mission to judie the profiles of the second ester group. Accumulator has not been observed in any orgen. The profile of effects biolowing exposure to DBP is mission and mice biolowing of a transcel display display. The profile of effects biolowing exposure to DBP is more and mice biolowing of a transcel display of the second water who is mainter that of the transcel display of the second water who implete advection in display display display display. The profile of effects biolowing exposure to DBP is mainter and mice biols with display display display display display display display. The second water advection is a stander exposure to DBP have been reported, although this was not confirmed in controlled studies of larger instances. A new cases of enstituation and paparitamaly display d

	peroxisome proliferation-activated receptor alpha (PPARa) and that levels of PPARa are much higher in rodents that this is true is provided by studies expect humans to be substantially less responsive than rodents to peroxisome proliferating agents. Empirical evidence that this is true is provided by studies in primates in which repeated administration of DNP had no effects on liver, kidney or resticular parameters. Several of the substances in the transition alphthaliate esters subcategony, however, have been shown to produce testicular atrophy when given to juvenile trats at high levels. Testicular atrophy tab been associated with BBP and other substances with C4 to C6 linear carbon chains. However, molecules with fewer then 4 or more than 6 cations did not produce testicular atrophy in these studies. Although the relevance of these data are uncertain, as the testes is not a target organ for diethy/thexyl phthaliate (DEHP) in primates, these data for provide one of the distinguishing toxicological characteristics of this subcategory and are one of the underlying reasons supporting the differentiation of phthaliate seters subcatione. BBP has been assessed in the satisfication mouse hyphoma assays. All of these substances were inactive in these assays. Chromosomal Aberrations. BBP and diffexyl phthaliate (DHP) were inactive in micronucleus assays in mice. DEHP was inactive in a cytogenetics assay in rat toor marrow. Disoheghy phthaliate works indexible in these subtains in the effects of phthaliate esters on fertility using a continuous breading protocul. The test substances include admonstread in these substances in the assays. Chromosomal Aberrations BDFP with phalicate at dieaxy levels of 0.1 % with an oefficie level of 0.01 %. The next most attrice compounds were districe, anylogenet, doi-howy, doi-ho
DIPHENYLAMINE	For substituted diphenylamines: Based upon reviewed data the physicochemical and toxicological properties of the substituted diphenylamines are similar and follow a regular pattern as a result of that structural similarity. Because of their powerful antioxidant properties, Substituted Diphenylamines, along with their common starting material, Diphenylamine, are regulated for use in several lood-contact applications by the Food and Drug Administration as Indirect Food Additives under the following sections of the Code of Federal Regulations (CFR): Heating any generate vapors which can initiate the eyes and respiratory passages. Drying of skin and mucous membranes leading to irritation may be possible from prolonged or repeated contact. Overexposure to vapors from heating the product may cause and/or skin irritation and respiratory tract irritation with symptoms such as, but not limited to, dizziness and flu-like symptoms Acute toxicity. As a group these materials do not produce significant acute toxicity in mammals. All show a slight to very low order of toxicity following oral administration, with LD50 values ranging from >5000 to > 34.000 mg/kg. Overall, the acute dermal LD50 for these materials was greater than the 2000 mg/kg limit dose indicating a very low order of toxicity. Mammalian Toxicology - Mutagenicity : Data from bacterial reverse mutation assays, in vitro and in vivo orthor some aberration studies, as well as additional supporting in vitro and in vivo genetic loxicity studies indicate a lack of mutagenicity Acute toxicity : Diphenylamine and its substituted diviatives all show a slight to moderate order of toxicity following oral administration, with LD50 values ranging from >500 to > 34.000 mg/kg. Overall, the acute dermal LD50 for these materials was greater than the 2000 mg/kg limit dose indicating a very low order of toxicity. Mutagenicity : Off the substituted diphenylamines tested, there was one weakly positive mutagenicity estructures and phyvices. Wutagenicity : Off the substituted dip
O-CHLOROBENZYLIDENE MALONONITRILE & LEAD STYPHNATE, MONOBASIC	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

Continued...

	with stronger sensitising potential with which few individual allergic test reaction in more than 1% of the persons test		t of view, substances are noteworthy if they produce an
O-CHLOROBENZYLIDENE MALONONITRILE & NITROGLYCERIN	The material may produce severe irritation to the eye cau conjunctivitis. The material may cause skin irritation after prolonged or often characterised by skin redness (erythema) and swe and intracellular oedema of the epidermis.	repeated exposure and may produce a c	contact dermatitis (nonallergic). This form of dermatitis is
O-CHLOROBENZYLIDENE MALONONITRILE & DIPHENYLAMINE	Asthma-like symptoms may continue for months or even reactive airways dysfunction syndrome (RADS) which ca diagnosis of RADS include the absence of preceding res within minutes to hours of a documented exposure to the bronchial hyperreactivity on methacholine challenge testii in the criteria for diagnosis of RADS. RADS (or asthma) of and duration of exposure to the irritating substance. In concentrations of irritating substance (often particulate ir dyspnea, cough and mucus production.	an occur following exposure to high levels piratory disease, in a non-atopic individua irritant. A reversible airflow pattern, on sp ng and the lack of minimal lymphocytic inf of following an irritating inhalation is an inf dustrial bronchitis, on the other hand, is a	al, with abrupt onset of persistent asthma-like symptoms birometry, with the presence of moderate to severe lammation, without eosinophilia, have also been included requent disorder with rates related to the concentration a disorder that occurs as result of exposure due to high
NITROCELLULOSE & LEAD STYPHNATE, MONOBASIC	No significant acute toxicological data identified in literal	ture search.	
Acute Toxicity	×	Carcinogenicity	✓
Skin Irritation/Corrosion	✓	Reproductivity	×
Serious Eye Damage/Irritation	✓	STOT - Single Exposure	✓
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	*
Mutagenicity	×	Aspiration Hazard	×
		.	er not available or does not fill the criteria for classification label to make classification

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

Combined Systems MODEL	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
2330 12ga CS Liquid Barricade Projectile	Not Available	Not Available	Not Available	Not Available	Not Available
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	=13.1mg/L	1
methylene chloride	EC50	48	Crustacea	1-682mg/L	2
	EC50	96	Algae or other aquatic plants	161.874mg/L	3
	NOEC	96	Algae or other aquatic plants	56mg/L	4
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
o-chlorobenzylidene	LC50	96	Fish	0.22mg/L	4
malononitrile	EC50	48	Crustacea	ca.0.244mg/L	2
	EC50	72	Algae or other aquatic plants	ca.1.663mg/L	2
nitrocellulose	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	EC50	96	Algae or other aquatic plants	579mg/L	4
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	1.38mg/L	4
aitee ab coordin	EC50	48	Crustacea	46mg/L	4
nitroglycerin	EC50	96	Algae or other aquatic plants	0.4mg/L	4
	BCF	192	Fish	0.42mg/L	4
	NOEC	1440	Fish	0.03mg/L	2
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	0.35mg/L	4
	EC50	48	Crustacea	>0.003mg/L	2
dibutyl phthalate	EC50	96	Algae or other aquatic plants	0.0034mg/L	4
	BCF	24	Algae or other aquatic plants	10mg/L	4
	EC10	48	Crustacea	>0.003mg/L	2
	NOEC	504	Fish	0.025mg/L	4
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
diphenylamine	LC50	96	Fish	3.287mg/L	3

	EC50	48	Crustacea	0.31mg/L	4
	EC50	72	Algae or other aquatic plants	0.048mg/L	1
	BCF	768	Fish	0.0437mg/L	4
	NOEC	504	Crustacea	0.16mg/L	1
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
lead styphnate, monobasic	Not Available	Not Available	Not Available	Not Available	Not Available
Legend:	(QSAR) - Aquat	. IUCLID Toxicity Data 2. Europe ECHA Registered S ic Toxicity Data (Estimated) 4. US EPA, Ecotox databe centration Data 7. METI (Japan) - Bioconcentration D	ase - Aquatic Toxicity Data 5. ECETOC Aquatic Haz		

Harmful 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
methylene chloride	LOW (Half-life = 56 days)	HIGH (Half-life = 191 days)
o-chlorobenzylidene malononitrile	HIGH	HIGH
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)
diphenylamine	LOW (Half-life = 56 days)	Not Available

Bioaccumulative potential

Ingredient	Bioaccumulation
methylene chloride	LOW (BCF = 40)
o-chlorobenzylidene malononitrile	LOW (LogKOW = 2.7611)
dibutyl phthalate	LOW (BCF = 176)
diphenylamine	LOW (BCF = 253)

Mobility in soil

Ingredient	Mobility
methylene chloride	LOW (KOC = 23.74)
o-chlorobenzylidene malononitrile	LOW (KOC = 1727)
dibutyl phthalate	LOW (KOC = 1460)
diphenylamine	LOW (KOC = 1887)

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product / Packaging disposal	 Explosives must not be thrown away, buried, discarded or placed with garbage. Explosives which are surplus, deteriorated or considered unsafe for transport, storage or use shall be destroyed and the statutory authorities shall be notified. This material may be disposed of by burning or detonation but the operation may only be performed under the control of a person trained in the safe destruction of explosives.
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SECTION 14 TRANSPORT INFORMATION

Labels Required

Marine Pollutant	NO
HAZCHEM	1YE
	•

Land transport (ADG)

UN number	0301
UN proper shipping name	AMMUNITION, TEAR-PRODUCING with burster, expelling charge or propelling charge
Transport hazard class(es)	Class 1.4G Subrisk 6.1, 8

Packing group	Not Applicable
Environmental hazard	Not Applicable
Special precautions for user	Special provisions Not Applicable Limited quantity 0

Air transport (ICAO-IATA / DGR)

	-				
UN number	0301				
UN proper shipping name	Ammunition, tear-producing with burster, expelling charge or propelling charge				
	ICAO/IATA Class	1.4G			
Transport hazard class(es)	ICAO / IATA Subrisk	6.1, 8			
	ERG Code	ERG Code 1CP			
Packing group	Not Applicable				
Environmental hazard	Not Applicable				
	Special provisions		Not Applicable		
	Cargo Only Packing Instructions		130		
	Cargo Only Maximum Qty / Pack		75 kg		
Special precautions for user	Passenger and Cargo Packing Instructions		Forbidden		
	Passenger and Cargo Maximum Qty / Pack		Forbidden		
	Passenger and Cargo Limited Quantity Packing Instructions		Forbidden		
	Passenger and Cargo	Limited Maximum Qty / Pack	Forbidden		

Sea transport (IMDG-Code / GGVSee)

UN number	0301			
UN proper shipping name	AMMUNITION, TEAF	AMMUNITION, TEAR-PRODUCING with burster, expelling charge or propelling charge		
Transport hazard class(es)				
Packing group	Not Applicable			
Environmental hazard	Not Applicable			
Special precautions for user	EMS Number Special provisions Limited Quantities	F-B , S-Z Not Applicable 0		

Transport in bulk according to Annex II of MARPOL and the IBC code Not Applicable

SECTION 15 REGULATORY INFORMATION

J (Part 2)

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

METHYLENE CHLORIDE(75-09-2) IS FOUND ON THE FOLLOWING REGULATORY LISTS	3
Australia Dangerous Goods Code (ADG Code) - Dangerous Goods List	Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule
Australia Dangerous Goods Code (ADG Code) - List of Emergency Action Codes	5
Australia Exposure Standards	GESAMP/EHS Composite List - GESAMP Hazard Profiles
Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals	IMO IBC Code Chapter 17: Summary of minimum requirements
Australia Inventory of Chemical Substances (AICS)	IMO MARPOL (Annex II) - List of Noxious Liquid Substances Carried in Bulk
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix E (Part 2)	International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix	International Air Transport Association (IATA) Dangerous Goods Regulations
F (Part 3)	International Maritime Dangerous Goods Requirements (IMDG Code)
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Part 2, Section Seven - Appendix I	United Nations Recommendations on the Transport of Dangerous Goods Model Regulations
O-CHLOROBENZYLIDENE MALONONITRILE(2698-41-1) IS FOUND ON THE FOLLOWING	G REGULATORY LISTS
Australia Dangerous Goods Code (ADG Code) - Dangerous Goods List	Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Index
Australia Dangerous Goods Code (ADG Code) - List of Emergency Action Codes	International Air Transport Association (IATA) Dangerous Goods Regulations
Australia Exposure Standards	International Maritime Dangerous Goods Requirements (IMDG Code)
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix E (Part 2)	United Nations Recommendations on the Transport of Dangerous Goods Model Regulations

NITROCELLULOSE(9004-70-0) IS FOUND ON THE FOLLOWING REGULATORY LISTS

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

Australia Dangerous Goods Code (ADG Code) - Dangerous Goods List	Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Index
Australia Dangerous Goods Code (ADG Code) - Goods Too Dangerous To Be Transported	International Air Transport Association (IATA) Dangerous Goods Regulations
Australia Explosives Code (AE Code)	International Air Transport Association (IATA) Dangerous Goods Regulations - Prohibited Lis
Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals	Passenger and Cargo Aircraft
Australia Inventory of Chemical Substances (AICS)	International Maritime Dangerous Goods Requirements (IMDG Code)
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix A	United Nations Recommendations on the Transport of Dangerous Goods Model Regulations
NITROGLYCERIN(55-63-0) IS FOUND ON THE FOLLOWING REGULATORY LISTS	
Australia Dangerous Goods Code (ADG Code) - Dangerous Goods List	Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Index
Australia Dangerous Goods Code (ADG Code) - Goods Too Dangerous To Be Transported	Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedu
Australia Explosives Code (AE Code)	3
Australia Exposure Standards	Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedu
Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals	4
Australia Inventory of Chemical Substances (AICS)	International Air Transport Association (IATA) Dangerous Goods Regulations
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix A	International Air Transport Association (IATA) Dangerous Goods Regulations - Prohibited Lis Passenger and Cargo Aircraft
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix	International Maritime Dangerous Goods Requirements (IMDG Code)
G	United Nations Recommendations on the Transport of Dangerous Goods Model Regulations
DIBUTYL PHTHALATE(84-74-2) IS FOUND ON THE FOLLOWING REGULATORY LISTS	
Australia Dangerous Goods Code (ADG Code) - Dangerous Goods List	GESAMP/EHS Composite List - GESAMP Hazard Profiles
Australia Dangerous Goods Code (ADG Code) - List of Emergency Action Codes	IMO IBC Code Chapter 17: Summary of minimum requirements
Australia Exposure Standards	IMO MARPOL (Annex II) - List of Noxious Liquid Substances Carried in Bulk
Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals	International Air Transport Association (IATA) Dangerous Goods Regulations
Australia Inventory of Chemical Substances (AICS)	International Maritime Dangerous Goods Requirements (IMDG Code)
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Index	United Nations Recommendations on the Transport of Dangerous Goods Model Regulations
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 10 / Appendix C	
DIPHENYLAMINE(122-39-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS	
Australia Dangerous Goods Code (ADG Code) - Dangerous Goods List	Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedu
Australia Dangerous Goods Code (ADG Code) - List of Emergency Action Codes	10 / Appendix C
Australia Exposure Standards	Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedu
Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals	6
Australia Inventory of Chemical Substances (AICS)	GESAMP/EHS Composite List - GESAMP Hazard Profiles
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix	IMO IBC Code Chapter 17: Summary of minimum requirements
B (Part 3)	IMO MARPOL (Annex II) - List of Noxious Liquid Substances Carried in Bulk
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix	International Air Transport Association (IATA) Dangerous Goods Regulations
E (Part 2)	International Maritime Dangerous Goods Requirements (IMDG Code)
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix F (Part 3)	United Nations Recommendations on the Transport of Dangerous Goods Model Regulations
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Index	

Australia Dangerous Goods Code (ADG Code) - Dangerous Goods List Australia Explosives Code (AE Code)	Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5
Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix	Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6
E (Part 2)	International Air Transport Association (IATA) Dangerous Goods Regulations
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix F (Part 3)	International Air Transport Association (IATA) Dangerous Goods Regulations - Prohibited List Passenger and Cargo Aircraft
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Index	International Maritime Dangerous Goods Requirements (IMDG Code)
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 10 / Appendix C	United Nations Recommendations on the Transport of Dangerous Goods Model Regulations

National Inventory Status Australia - AICS No (lead styphnate, monobasic; o-chlorobenzylidene malononitrile) Canada - DSL No (lead styphnate, monobasic; o-chlorobenzylidene malononitrile) Canada - NDSL No (nitrocellulose; methylene chloride; nitroglycerin; diphenylamine; dibutyl phthalate) China - IECSC No (lead styphnate, monobasic; o-chlorobenzylidene malononitrile; nitroglycerin) Europe - EINEC / ELINCS / NLP No (nitrocellulose) Japan - ENCS No (lead styphnate, monobasic; o-chlorobenzylidene malononitrile) Korea - KECI Yes New Zealand - NZIoC No (lead styphnate, monobasic) Philippines - PICCS No (lead styphnate, monobasic; o-chlorobenzylidene malononitrile) USA - TSCA Yes Taiwan - TCSI No (lead styphnate, monobasic; o-chlorobenzylidene malononitrile) Mexico - INSQ No (lead styphnate, monobasic) Vietnam - NCI No (lead styphnate, monobasic; o-chlorobenzylidene malononitrile) Russia - ARIPS No (lead styphnate, monobasic) Thailand - TECI No (lead styphnate, monobasic; nitroglycerin)

National Inventory Status

Version No: 6.1.1.1

Combined Systems MODEL 2330 12ga CS Liquid Barricade Projectile

Legend:

Yes = All CAS declared ingredients are on the inventory

No = One or more of the CAS listed ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

SECTION 16 OTHER INFORMATION

Revision Date	13/03/2019
Initial Date	30/05/2014

SDS Version Summary

Version	Issue Date	Sections Updated
5.1.1.1	10/06/2014	Acute Health (inhaled), Chronic Health, Classification, Fire Fighter (fire/explosion hazard), Handling Procedure, Instability Condition, Personal Protection (hands/feet), Storage (suitable container)
6.1.1.1	13/03/2019	Expiration. Review and Update

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chernwatch 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 OSF: Odour Safety Factor NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index

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