

SAFETY DATA SHEET

Chemwatch: Hazard Alert Code:

Version: 10.1.1.1 Chemwatch:62-6350 Revision Date: 02/09/2023 Date of first issue: 2/09/2023 Safety Data Sheet according to WHS and ADG requirements

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

Product name	:	KONSTRUKT® SILVER ZINC (AEROSOL)
Product code	:	KONS-SG-400G
Proper shipping name	:	AEROSOLS

Manufacturer or supplier's details

Company	:	Synergy Business Systems Pty Ltd
Address	:	Suite 2, Level 7, 104 Melbourne Street, South Brisbane, QLD 4101
Telephone	:	1300 161 872
Emergency telephone number	:	131 126
Website	:	www.synergysystems.com.au
Poisons Information Centre	:	131 126

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

Relevant identified uses	:	Galvanising spray. Application is by spray atomisation from a hand held aerosol pack.
Restrictions on use	:	Use according to manufacturer's directions.

SECTION 2 HAZARDS IDENTIFICATION

Classification		AZARDOUS CHEMICAL. DANGEROUS GOODS. coording to the WHS Regulations and the ADG Code.
Chemwatch Hazard Ratings		ammability $(4) = Extreme$
		xicity (2) = Moderate ody Contact (2) = Moderate
		eactivity $(2) = Moderate$
		$\operatorname{nronic}(1) = \operatorname{Low}$
Poisons Schedule		bt applicable
Classification (1)	: Fla 2A	A, Specific target organ toxicity - single exposure Category 3 (narcotic effects), Acute Aquatic Azard Category 3, Chronic Aquatic Hazard Category 2
Legend		Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from egulation (EU) No 1272/2008 - Annex VI
Label elements Hazard pictogram(s)	: 🗸	
Signal word	: Da	anger



Hazard Statements	:	 H222 Extremely flammable aerosol. H315 Causes skin irritation. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H411 Toxic to aquatic life with long lasting effects. AUH044 Risk of explosion if heated under confinement.
Precautionary Statements Prevention	:	 P210 Keep away from heat/sparks/open flames/hot surfaces No smoking. P211 Do not spray on an open flame or other ignition source. P251 Pressurized container: Do not pierce or burn, even after use. P271 Use only outdoors or in a well-ventilated area. P261 Avoid breathing mist/vapours/spray. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statements Response	:	 P321 Specific treatment (see advice on this label). P362 Take off contaminated clothing and wash before reuse. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. 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 water and soap. 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.
Precautionary Statements Storage	:	P405 Store locked up. P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. P403+P233 Store in a well-ventilated place. Keep container tightly closed.
Precautionary Statements Disposal	:	P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

: See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
1330-20-7	10-30	xylene
Not Available	NotSpec	resin, proprietary
67-64-1	1-30	acetone
7440-66-6	1-10	zinc powder
7779-90-0	1-3	zinc phosphate
7429-90-5	1-3	aluminium
115-10-6	10-30	dimethyl ether

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SECTION 4 FIRST AID MEASURES

Description of first aid measure Eye Contact	If aerosols come in contact with the eyes: Immediately hold the eyelids apart and flush the eye continuously for at least 15 minutes with fresh 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. 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 solids or aerosol mists are deposited upon the skin: Flush skin and hair with running water (and soap if available). Remove any adhering solids with industrial skin cleansing cream. DO NOT use solvents. Seek medical attention in the event of irritation.
Inhalation : :	If aerosols, fumes or combustion products are inhaled: Remove to fresh air. 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. If breathing is shallow or has stopped, ensure clear airway and apply resuscitation, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor.
Ingestion :	 Avoid giving milk or oils. Avoid giving alcohol. Not considered a normal route of entry. 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. Seek medical advice.

Indication of any immediate medical attention and special treatment needed Treat symptomatically.

For acute or short term repeated exposures to xylene:

•	Gastro-intestinal absorption is significant with ingestions. For ingestions exceeding 1-2 ml
	(xylene)/kg, intubation and lavage with cuffed endotracheal tube is recommended. The use of
	charcoal and cathartics is equivocal.
:	Pulmonary absorption is rapid with about 60-65% retained at rest.
:	Primary threat to life from ingestion and/or inhalation, is respiratory failure.
:	Patients should be quickly evaluated for signs of respiratory distress (e.g. cyanosis, tachypnoea, intercostal retraction, obtundation) and given oxygen.
:	Patients with inadequate tidal volumes or poor arterial blood gases ($pO2 < 50 \text{ mm Hg}$ or $pCO2 > 50 \text{ mm Hg}$) should be intubated.
:	Arrhythmias complicate some hydrocarbon ingestion and/or inhalation and electrocardiographic evidence of myocardial injury has been reported; intravenous lines and cardiac monitors should be established in obviously symptomatic patients. The lungs excrete inhaled solvents, so that hyperventilation improves clearance.
:	A chest x-ray should be taken immediately after stabilisation of breathing and circulation to document aspiration and detect the presence of pneumothorax.
:	Epinephrine (adrenalin) is not recommended for treatment of bronchospasm because of potential myocardial sensitisation to catecholamines. Inhaled cardioselective bronchodilators (e.g. Alupent, Salbutamol) are the preferred agents, with aminophylline a second choice.



SECTION 4 FIRST AID MEASURES (CONTINUED)

Biological Exposure Index - BEI:	These represent the determinants observed in specimens collected from a healthy worker exposed at the Exposure Standard (ES or TLV):

Determinant	Index	Sampling Time
Methylhippu-ric acids in urine	1.5 gm/gm creatinine	End of shift
	2 mg/min	Last 4 hrs of shift

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media	:	SMALL FIRE: Water spray, dry chemical or CO2 LARGE FIRE: Water spray or fog.
Special hazards arising from Fire Incompatibility	m the : :	substrate or mixture Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result
Advice for firefighters Fire Fighting		Alert Fire Brigade and tell them location and nature of hazard. May be violently or explosively reactive. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course. If safe, switch off electrical equipment until vapour fire hazard removed. Use water delivered as a fine spray to control fire and cool adjacent area. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. Equipment should be thoroughly decontaminated after use.
Fire/Explosion Hazard		Liquid and vapour are highly flammable. Severe fire hazard when exposed to heat or flame. Vapour forms an explosive mixture with air. Severe explosion hazard, in the form of vapour, when exposed to flame or spark. Vapour may travel a considerable distance to source of ignition. Heating may cause expansion or decomposition with violent container rupture. Aerosol cans may explode on exposure to naked flames. Rupturing containers may rocket and scatter burning materials. Hazards may not be restricted to pressure effects. May emit acrid, poisonous or corrosive fumes. On combustion, may emit toxic fumes of carbon monoxide (CO). Combustion products include: - carbon dioxide (CO2) - other pyrolysis products typical of burning organic material. Contains low boiling substance : Closed containers may rupture due to pressure buildup under fire conditions. Carbon monoxide (CO)
HAZCHEM:		Not applicable



SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, prote See section 8	ective equipment and emergency procedures
Environmental precautions	
See section 12	
	ontainment and cleaning up
Minor Spills	: Clean up all spills immediately.
	: Avoid breathing vapours and contact with skin and eyes.
	: Wear protective clothing, impervious gloves and safety glasses.
	: Shut off all possible sources of ignition and increase ventilation.
	: Wipe up.
	: If safe, damaged cans should be placed in a container outdoors, away from all ignition sources, until pressure has dissipated.
	: Undamaged cans should be gathered and stowed safely.
Major Spills	: 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 breathing apparatus plus protective gloves.
	: Prevent, by any means available, spillage from entering drains or water courses.
	: No smoking, naked lights or ignition sources.
	: Increase ventilation.
	: Stop leak if safe to do so.
	: Water spray or fog may be used to disperse / absorb vapour.
	: Absorb or cover spill with sand, earth, inert materials or vermiculite.
	: If safe, damaged cans should be placed in a container outdoors, away from ignition sources,
	until pressure has dissipated.
	: Undamaged cans should be gathered and stowed safely.
	: Collect residues and seal in labelled drums for disposal.

Personal Protective Equiptment is contained in section 8 of the SDS.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling	
Safe handling	DO NOT allow clothing wet with material to stay in contact with skin
	: Avoid all personal contact, including inhalation.
	: Wear protective clothing when risk of exposure occurs.
	: Use in a well-ventilated area.
	: Prevent concentration in hollows and sumps.
	: DO NOT enter confined spaces until atmosphere has been checked.
	: Avoid smoking, naked lights or ignition sources.
	: Avoid contact with incompatible materials.
	: When handling, DO NOT eat, drink or smoke.
	DO NOT incinerate or puncture aerosol cans.
	: DO NOT spray directly on humans, exposed food or food utensils.
	: Avoid physical damage to containers.
	: Always wash hands with soap and water after handling.
	: Work clothes should be laundered separately.
	: Use good occupational work practice.
	v 1 1
	: Observe manufacturer's storage and handling recommendations contained within this SDS.
	: Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.



SECTION 7 HANDLING AND STORAGE (CONTINUED)

Other information	: Keep dry to avoid corrosion of cans. Corrosion may result in container perforation and internal pressure may eject contents of can
	: Store in original containers in approved flammable liquid storage area.
	DO NOT store in pits, depressions, basements or areas where vapours may be trapped.
	: No smoking, naked lights, heat or ignition sources.
	: Keep containers securely sealed. Contents under pressure.
	: Store away from incompatible materials.
	: Store in a cool, dry, well ventilated area.
	: Avoid storage at temperatures higher than 40 deg C.
	: Store in an upright position.
	: Protect containers against physical damage.
	: Check regularly for spills and leaks.

: Observe manufacturer's storage and handling recommendations contained within this SDS.

Conditions for safe storage, including any incompatibilities

Suitable container : Aerosol dispenser.

Storage incompatibility

- : Check that containers are clearly labelled.
- : Reacts with acids producing flammable / explosive hydrogen (H2) gas.
 - : Avoid reaction with oxidising agents



X Must not be stored together **O** May be stored together with specific preventions **+** May be stored together

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SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters Occupational Exposure Limits (OEL) Ingredient Data

Source	Ingredient	Material name	TWA	STEL
	xylene	Xylene (o-, m-, p- isomers)	80 ppm / 350 mg/m3	655 mg/m3 / 150 ppm
	acetone	Acetone	500 ppm / 1185 mg/m3	2375 mg/m3 / 1000 ppm
Australia Exposure Standards	aluminium	Aluminium, pyro powders (as Al)	5 mg/m3	Not Available
	aluminium	Aluminium, welding fumes (as Al)	5 mg/m3	Not Available
	aluminium	Aluminium (metal dust)	10 mg/m3	Not Available
	dimethyl ether	Dimethyl ether	400 ppm / 760 mg/m3	950 mg/m3 / 500 ppm

Emergency Limits

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
xylene	Xylenes	Not Available	Not Available	Not Available
acetone	Acetone	Not Available	Not Available	Not Available
zinc powder	Zinc	6 mg/m3	21 mg/m3	120 mg/m3
zinc phosphate	Zinc phosphate (3:2)	12mg / m3	36mg / m3	220mg / m3
dimethyl ether	Methyl ether; (Dimethyl ether)	3000 ppm	3800* ppm	7200* ppm

Ingredient	Original IDLH	Revised IDLH	
xylene	900 ppm	Not Available	
acetone	2500 ppm	Not Available	
zinc powder	Not Available	Not Available	
zinc phosphate	Not Available	Not Available	
aluminium	Not Available	Not Available	
dimethyl ether	Not Available	Not Available	

Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit
zinc powder	E	≤ 0.01 mg/m ³
Notes:	Occupational exposure banding is a process of assigning chem potency and the adverse health outcomes associated with expo (OEB), which corresponds to a range of exposure concentration	sure. The output of this process is an occupational exposure band



SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION (CONTINUED)

Exposure controls Appropriate engineering 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.
- : General exhaust is adequate under normal conditions. If risk of overexposure exists, wear SAA approved respirator. Correct fit is essential to obtain adequate protection.
- : Provide adequate ventilation in warehouse or closed storage areas.
- Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.

Type of Containment	Speed	
aerosols, (released at low velocity into zone of active generation)	0.5-1m/s	
direct spray, spray painting in shallow booths, gas discharge (active generation into zone of rapid air motion)	1-2.5m/s (200-500 f/min.)	

Within each range the appropriate value depends on:

Lower end of the range	Upper end of the range	
1: Room air currents minimal or favourable to capture	1: Disturbing room air currents	
2: Contaminants of low toxicity or of nuisance value only	2: Contaminants of high toxicity	
3: Intermittent, low production	3: High production, heavy use	
4: Large hood or large air mass in motion	4: Small hood-local control only	

Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min.) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.



Eye and face protection

Personal protection

Safety glasses with side shields.

: Chemical goggles.

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: DO NOT wear contact lenses.

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SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION (CONTINUED)

		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/Hands/Feet protection	:	No special equipment needed when handling small quantities. OTHERWISE: For potentially moderate exposures: - Wear general protective gloves, eg. light weight rubber gloves. For potentially heavy exposures: - Wear chemical protective gloves, eg. PVC. and safety footwear.
Body/Other protection	:	No special equipment needed when handling small quantities. OTHERWISE: - Overalls. - Skin cleansing cream. - Eyewash unit. - Do not spray on hot surfaces.
Recommended materials		

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: Silver Zinc Aerosol

Material	CPI	Material	CPI	
BUTYL	С	NITRILE+PVC	С	
BUTYL/NEOPRENE	С	PE/EVAL/PE	С	
CPE	С	PVA	С	
HYPALON	С	PVC	С	
NAT+NEOPR+NITRILE	С	PVDC/PE/PVDC	С	
NATURAL RUBBER	С	SARANEX-23	С	
NATURAL+NEOPRENE	С	SARANEX-23 2-PLY	С	
NEOPRENE	С	TEFLON	С	
NEOPRENE/NATURAL	С	VITON	С	
NITRILE	С	VITON/NEOPRENE	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.

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SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION (CONTINUED)

Respiratory protection

Appearance

Type AX 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	AX-AUS / Class 1	-	AX-PAPR-AUS / Class 1
up to 50 x ES	Air-line*	AX-AUS / Class 1	-
up to 100 x ES	-	AX-2	AX-2 AX-PAPR-2 ^

* - Continuous-flow;

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

Aerosols, in common with most vapours/ mists, should never be used in confined spaces without adequate ventilation. Aerosols, containing agents designed to enhance or mask smell, have triggered allergic reactions in predisposed individuals.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

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Information on basic physical and chemical properties

: Silver flammable liquid with a solvent odour; not miscible with water.

: Supplied as an aerosol pack. Contents under PRESSURE. Contains highly flammable ether propellant.

Physical State	:	Liquid
Odour	:	Not Available
Odour threshold	:	Not Available
pH (as supplied)	:	Not Available
Melting point / freezing	:	Not Available
point (°Ċ)		
Initial boiling point and	:	Not Available
boiling range (°C)		
Flash point (°C)	:	-41 (propellant)
Evaporation rate	:	Not Available
Flammability	:	HIGHLY FLAMMABLE.
Upper Explosive Limit (%)	:	Not Available
Lower Explosive Limit (%)	:	Not Available
Vapour pressure (kPa)	:	Not Available
Solubility in water	:	Immiscible
Vapour density (Air = 1)	:	Not Available
Relative density (Water = 1)		Not Available
Partition coefficient	:	Not Available
n-octanol / water		
Auto-ignition temperature (°C)	:	Not Available
Decomposition temperature	:	Not Available

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SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES (CONTINUED)

Viscosity (cSt) Molecular weight (g/mol) Taste Explosive properties Oxidising properties Surface Tension (dyn/cm or mN/m)	: : : : : : : : : : : : : : : : : : : :	Not Available Not Applicable Not Available Not Available Not Available Not Available
Volatile Component (%vol) Gas group pH as a solution (1%)	:	Not Available Not Available Not Available
VOC g/L	:	Not Available

SECTION 10 STABILITY AND REACTIVITY

Reactivity Chemical stability	:	See section 7 Elevated temperatures. Presence of open flame. Product is considered stable. Hazardous polymerisation will not occur.
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

Information on toxicologic	al effects
Information on toxicologic Inhaled	 al effects Inhalation of aerosols (mists, fumes), generated by the material during the course of normal handling, may be harmful. Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of coordination and vertigo. Exposure to n-butanol causes dose dependent irritation and headaches in humans, but CNS depression and prostration in mice. Though the offensive odour may forewarn, the smell sense may become fatigued. Aliphatic alcohols with more than 3-carbons cause headache, dizziness, drowsiness, muscle weakness and delirium, central depression, coma, seizures and behavioural changes. Secondary respiratory depression and failure, as well as low blood pressure and irregular heart rhythms, may follow. Material is highly volatile and may quickly form a concentrated atmosphere in confined or unventilated areas. The vapour may displace and replace air in breathing zone, acting as a simple asphyxiant. This may happen with little warning of overexposure. Inhalation of high concentrations of gas/vapour causes lung irritation with coughing and nausea, central nervous depression with headache and dizziness, slowing of reflexes, fatigue and inco-ordination. WARNING: Intentional misuse by concentrating/inhaling contents may be lethal. Headache, fatigue, tiredness, irritability and digestive disturbances (nausea, loss of appetite and bloating) are the most common symptoms of xylene overexposure. Injury to the heart, liver, kidneys and nervous system has also been noted amongst workers.

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SECTION 11 TOXICOLOGICAL INFORMATION (CONTINUED)

Ingestion		
Skin Contact	 absorption. This material can cause inflammation of The material may accentuate any pre-ex Repeated exposure may cause skin cracuse. Spray mist may produce discomfort Alkyl ethers may defat and dehydrate the headache, dizziness, and central nervou Open cuts, abraded or irritated skin sho 	kisting dermatitis condition. kking, flaking or drying following normal handling and e skin producing dermatoses. Absorption may produce s system depression. uld not be exposed to this material
Еуе	: This material can cause eye irritation an ethers (vapour or liquid) may produce in	d damage in some persons. Eye contact with alkyl itation, redness and tears.
Chronic	 following repeated or long-term occupation Chronic exposure to alkyl ethers may reweight loss. Women exposed to xylene in the first 3 risk of miscarriage and birth defects. Evdemonstrated lack of genetic toxicity. Exposure to the material for prolonged pembryo (teratogenesis). 	body, may occur and may cause some concern ional exposure. sult in loss of appetite, excessive thirst, fatigue, and months of pregnancy showed a slightly increased aluation of workers chronically exposed to xylene has eriods may cause physical defects in the developing any result in nervous system impairment and liver and
Silver Zinc Aerosol	Toxicity	Irritation
	Not Available	Not Available
Xylene	: Toxicity Dermal (rabbit) LD50: >1700 mg/kg ^[2] Inhalation (rat) LC50: 4994.295 mg/l/4 Oral (mouse) LD50: 2119mg/kg ^[2]	Eye (rabbit): 87 mg mild Eye: adverse effect observed (irritating) ^[1] Skin (rabbit):500 mg/24h moderate
		Skin: adverse effect observed (irritating) ^[1]



SECTION 11 TOXICOLOGICAL INFORMATION (CONTINUED)

Acetone	:	Toxicity	Irritation
		Dermal (rabbit) LD50: =20 mg/kg ^[2]	Eye (human): 50 ppm - irritant
		Inhalation (rat) LC50: 100.2 mg/l/8hr ^[2]	Eye (rabbit): 20mg/24hr -moderate
		Oral (rat) LD50: 1800-7300 mg/kg ^[2]	Eye (rabbit): 3.95 mg - SEVERE
			Eye: adverse effect observed (irritating) ^[1]
			Skin (rabbit): 500 mg/24hr - mild
			Skin (rabbit):395mg (open) - mild
			Skin: no adverse effect observed (not irritating) ^[1]
Zinc powder	:	Toxicity	Irritation
		dermal (rat) LD50: >2000 mg/kg ^[1]	Eye: no adverse effect observed (not irritating) ^[1]
		Inhalation (rat) LC50: >1.79 mg/l4 h ^[1]	Skin: no adverse effect observed (not irritating) ^[1]
		Oral (rat) LD50: >2000 mg/kg ^[1]	
Zinc phosphate		Toxicity	Irritation
		Oral (rat) LD50: >5000 mg/kg ^[1]	Eye: no adverse effect observed (not irritating) ^[1]
		Oral (rat) LD50: >15000 mg/kg ^[1]	Skin: no adverse effect observed (not irritating) ^[1]
Aluminium		Toxicity	Irritation
		Oral (rat) LD50: >2000 mg/kg ^[1]	Eye: no adverse effect observed (not irritating) ^[1]
			Skin: no adverse effect observed (not irritating) ^[1]
Dimethyl ether	:	Toxicity	Irritation
		Inhalation (rat) LC50: 309 mg/I/4H ^[2]	Not Available
Legend	:	1. Value obtained from Europe ECHA Regist 2.* Value obtained from manufacturer's SDS RTECS - Register of Toxic Effect of chemica	S. Unless otherwise specified data extracted from
Xylene	:	Reproductive effector in rats The material may produce severe irritation t Repeated or prolonged exposure to irritants The substance is classified by IARC as Grou NOT classifiable as to its carcinogenicity to Evidence of carcinogenicity may be inadequ	p 3: humans.
Acetone	:	from the skin, and it also irritates the eye. A	e is not a skin irritant or sensitizer, but it removes fat nimal testing shows acetone may cause macrocytic at exposure to acetone at a level of 2375 mg/cubic icits.
Zinc Powder	:	Inhalation (human) TCLo: 124 mg/m3/50mi	n. Skin (human):0.3mg/3DaysInt. mild



SECTION 11 TOXICOLOGICAL INFORMATION (CONTINUED)

Aluminium	:	No significant acute toxicological data identified in literature s	earch.
Xylene & Acetone	:	The material may cause skin irritation after prolonged or repe on contact skin redness, swelling, the production of vesicles,	
Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	\checkmark	Reproductivity	×
Serious Eye Damage/Irritation	\checkmark	STOT - Single Exposure	\checkmark
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	x	Aspiration Hazard	×
Legend	x	- Data either not available or does not fill the criteria for classifi	ication

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

SECTION 12 ECOLOGICAL INFORMATION

Toxicity Silver Zinc Aerosol	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
Xylene :	Endpoint	Test Duration (hr)	Species	Value	Source
	LC50	96	Fish	2.6mg/L	2
	EC50	48	Crustacea	1.8mg/L	2
	EC50	72	Algae or other aquatic plants	3.2mg/L	2
	NOEC	73	Algae or other aquatic plants	0.44mg/L	2
Acetone	Endpoint	Test Duration (hr)	Species	Value	Source
	LC50	96	Fish	5-540mg/L	2
	EC50	48	Crustacea	>100mg/L	4
	EC50	96	Algae or other aquatic	20.565mg/L	2
	NOEC	504	Crustacea	1-866mg/L	2
Zinc Powder	Endpoint	Test Duration (hr)	Species	Value	Source
	LC50	96	Fish	0.001-0.58mg/L	2
	EC50	48	Crustacea	0.001-0.014mg/L	2
	EC50	72	Algae or other aquatic plants	0.106mg/L	4
	BCF	360	Algae or other aquatic plants	9mg/L	4
	NOEC	72	Algae or other aquatic plants	0.00006537mg/L	2



SECTION 12 ECOLOGICAL INFORMATION (CONTINUED)

Zinc Phosphate	Endpoint	Test Duration (hr)	Species	Value	Source
	LC50	96	Fish	0.001-0.58mg/L	2
	EC50	48	Crustacea	0.001-0.833mg/L	2
	NOEC	72	Algae or other aquatic plants	.00038608mg/L	2
Aluminium	Endpoint	Test Duration (hr)	Species	Value	Source
	LC50	96	Fish	0.001-0.134mg/L	2
	EC50	48	Crustacea	0.7364mg/L	2
	EC50	72	Algae or other aquatic plants	0.001-0.799mg/L	2
	BCF	360	Algae or other aquatic plants	9mg/L	4
	NOEC	168	Crustacea	0.001mg/L	2
Dimethyl Ether	Endpoint	Test Duration (hr)	Species	Value	Source
	LC50	96	Fish	1-783.04mg/L	2
	EC50	48	Crustacea	>4400.0mg/L	2
	EC50	96	Algae or other aquatic plants	154.917mg/L	2
	NOEC	48	Crustacea	>4000mg/L	1
Legend :	Ecotoxicol Data (Estir	ogical Information - A nated) 4. US EPA, Ecc nt Data 6. NITE (Japa	y Data 2. Europe ECHA Register quatic Toxicity 3. EPIWIN Suite V otox database - Aquatic Toxicity I n) - Bioconcentration Data 7. Mb	'3.12 (QSAR) - Aquati Data 5. ECETOC Aqua	tic Hazard

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters. Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
xylene	HIGH (Half-life = 360 days)	LOW (Half-life = 1.83 days)
acetone	LOW (Half-life = 14 days)	LOW (Half-life = 116.25 days)
dimethyl ether	LOW	LOW

Bioaccumulative potential

Ingredient	Bioaccumulation	
xylene	MEDIUM (BCF = 740)	
acetone	LOW (BCF = 0.69)	
dimethyl ether	LOW (LogKOW = 0.1)	



SECTION 12 ECOLOGICAL INFORMATION (CONTINUED)

Mobility in soil

Ingredient	Mobility
acetone	HIGH (KOC = 1.981)
dimethyl ether	HIGH (KOC = 1.292)

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product / Packaging disposal

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

- : A Hierarchy of Controls seems to be common the user should investigate:
 - Reduction
 - Reuse
 - Recycling

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- Disposal (if all else fails)
- This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate.
 - 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.
- Consult State Land Waste Management Authority for disposal.
- Discharge contents of damaged aerosol cans at an approved site.
- Allow small quantities to evaporate.
- DO NOT incinerate or puncture aerosol cans.
- Bury residues and emptied aerosol cans at an approved site.

SECTION 14 TRANSPORT INFORMATION

Labels Required

Marine Pollutant

HAZCHEM

Land Transport (ADG)

UN number	:	1950
UN proper shipping name	:	AEROSOLS
Transport hazard class(es)	:	Class 2.1
		Subrisk Not Applicable
Packing group	:	Not Applicable
Environmental hazard	:	Environmentally hazardous
Special precautions for user	:	Special provisions 63 190 277 327 344 381
		Limited quantity 1000ml

Not Applicable

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SECTION 12 ECOLOGICAL INFORMATION (CONTINUED)

Air transport (ICAO-IATA / DGR)

UN number	:	1950
UN proper shipping name	:	Aerosols, flammable (engine starting fluid); Aerosols, flammable
Transport hazard class(es)	:	ICAO/IATA Class 2.1
		ICAO / IATA Subrisk Not Applicable
		ERG Code 10L
Packing group	:	Not Applicable
Environmental hazard	:	Environmentally hazardous
Special precautions for user	:	Special provisions A145 A167 A802
		Cargo Only Packing Instructions 203
		Cargo Only Maximum Qty / Pack 150 kg
		Passenger and Cargo Packing Instructions 203; Forbidden
		Passenger and Cargo Maximum Qty / Pack 75 kg; Forbidden
		Passenger and Cargo Limited Quantity Packing Instructions Y203; Forbidden
		Passenger and Cargo Limited Maximum Qty / Pack 30 kg G; Forbidden

Sea transport (IMDG-Code / GGVSee)

UN number	:	1950
UN proper shipping name	:	AEROSOLS
Transport hazard class(es)	:	IMDG Class 2.1
		IMDG Subrisk Not Applicable
Packing group	:	Not Applicable
Environmental hazard	:	Marine Pollutant
Special precautions for user	:	EMS Number I F-D, S-U
		Special provisions 63 190 277 327 344 381 959
		Limited Quantities 1000 ml

SECTION 15 REGULATORY INFORMATION

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

XYLENE IS FOUND ON THE FOLLOWING REGULATORY LISTS

Not Applicable

ACETONE IS FOUND ON THE FOLLOWING REGULATORY LISTS Not Applicable

ZINC POWDER IS FOUND ON THE FOLLOWING REGULATORY LISTS Not Applicable

ZINC PHOSPHATE IS FOUND ON THE FOLLOWING REGULATORY LISTS Not Applicable

ALUMINIUM IS FOUND ON THE FOLLOWING REGULATORY LISTS

Not Applicable

DIMETHYL ETHER IS FOUND ON THE FOLLOWING REGULATORY LISTS

Not Applicable



SECTION 15 REGULATORY INFORMATION (CONTINUED)

National Inventory Status

Australia - AICS	:	Yes
Canada - DSL	:	Yes
Canada - NDSL	:	No (acetone; xylene; aluminium; dimethyl ether; zinc powder)
China - IECSC	:	Yes
Europe - EINEC / ELINCS / NLP	:	Yes
Japan - ENCS	:	No (aluminium; zinc powder)
Korea - KECI	:	Yes
New Zealand - NZIoC	:	Yes
Philippines - PICCS	:	Yes
USA - TSCA	:	Yes
Taiwan - TCSI	:	Yes
Mexico - INSQ	:	No (zinc phosphate)
Vietnam - NCI	:	Yes
Russia - ARIPS	:	Yes
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)

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SECTION 16 OTHER INFORMATION

Revision Date	:	01/09/2023
Initial Date	:	13/12/2013

SDS version Summary Version	Issue Date	Sections Updated
9.1.1.1	11/08/2016	Classification
10.1.1.1	01/11/2019	One-off system update. NOTE: This may or may not change the GHS classification

Other information

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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
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 Index

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