

schweizerischer verband des dentalhandels associations suisse du commerce dentaire SVDH, Moosstrasse 2, 3073 Gümligen Tel. 031 952 76 75 / Fax 031 952 76 83 http://www.svdh.ch/sdb

safety data sheet

to product

Permite NG2 500 Kapseln NH Gr.5

1. Identification of the substance / preparation and company

Emergency number:

Tox Info Suisse, Freiestrasse 16, 8032 Zürich; Tox-Info Suisse: 145 (24h-operation); info@toxinfo.ch; **In case of emergency: Tel. 145**; (abroad: +41 44 251 51 51); information: +41 44 251 66 66

Company name:

absolutely best choice	abc dental ag	Gaswerkstrasse 6, 8952 Schlieren Tel. 044 755 51 00, Fax 044 755 51 01
C R NDOR A HENRY SCHEIN [®] COMPANY	Condor Dental Research CO Sàrl	Ch. des Cibleries 2, CP 300, 1896 Vouvry Tel. 024 482 61 61, Fax 024 482 61 69
curaden dentaldepot	Curaden AG Dentaldepot	Riedstrasse 12, 8953 Dietikon Tel. 041 319 45 00, Fax 041 319 45 90
dema dent	dema dent AG	Furtbachstrasse 16, 8107 Buchs Tel. 044 838 65 65, Fax 044 838 65 66
Flexdental	Flexdental Services SA	Route de la Corniche 1, 1066 Epalinges Tel. 0848 336 825, Fax 021 907 67 02
	Jordi Röntgentechnik AG	Dammstrasse 70, 4142 Münchenstein Tel. 061 417 93 93, Fax 061 417 93 94
KALADENT	Kaladent AG	Schachenstrasse 2, 9016 St. Gallen Tel. 071 282 80 80, Fax 071 282 80 81
LOMETRAL Die Zahnarztausstatter.	Lometral AG	Binzenholzstrasse 20, 5704 Egliswil Tel. 062 775 05 05, Fax 062 775 33 07
	Novadent AG	Sägereistrasse 17, 8152 Glattbrugg Tel. 044 880 20 20, Fax 044 811 04 40
Smart Dentist Ich kann auch sol	Smart Dentist AG	Verenastrasse 4b, 8832 Wollerau Tel. 044 726 20 20, Fax 044 726 20 25



Permite; Lojic Plus; GS-80; GS-80 Spherical; F400; Ultracaps Plus; Ultracaps S; SDI Admix; SDI Spherical; New Ultrafine - Capsules

SDI Limited

Version No: 6.1.1.1

Safety Data Sheet according to WHS and ADG requirements

Issue Date: 01/11/2019 Print Date: 10/12/2019 L.GHS.AUS.EN

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

Product Identifier

Product name	Permite; Lojic Plus; GS-80; GS-80 Spherical; F400; Ultracaps Plus; Ultracaps S; SDI Admix; SDI Spherical; New Ultrafine - Capsules
Synonyms	Not Available
Proper shipping name	MERCURY CONTAINED IN MANUFACTURED ARTICLES
Other means of identification	Not Available
elevant identified uses of the substance or mixture and uses advised against	

Relevant identified uses For filling of cavitated teeth by dental professionals.

Details of the supplier of the safety data sheet

Registered company name	SDI Limited	SDI (North America) Inc.	SDI Dental Limited
Address	3-15 Brunsdon Street Bayswater VIC 3153 Australia	1279 Hamilton Parkway Itasca IL 60143 United States	Block 8, St Johns Court Santry Dublin 9 Ireland
Telephone	+61 3 8727 7111 (Business Hours)	+1 630 361 9200 (Business hours) 1 800 228 5166	+353 1 886 9577 (Business Hours) 800 0225 5734
Fax	+61 3 8727 7222	+1 630 361 9222	Not Available
Website	www.sdi.com.au	http://www.sdi.com.au	http://www.sdi.com.au/
Email	info@sdi.com.au	USA.Canada@sdi.com.au	Ireland@sdi.com.au
Registered company name	Registered company name SDi		
Address	Rua Dr. Virgílio de Carvalho Pinto, 612 Pinheiros, Sao Paulo 05415-020 Brazil		
Telephone	+55 11 3092 7100 (Business Hours)		
Fax	+55 11 3092 7101		
Website	http://www.sdi.com.au/		
Email	Brasil@sdi.com.au		

Emergency telephone number

Association / Organisation	SDI Limited	SDI Dental Limited	SDi
Emergency telephone numbers	+61 3 8727 7111	+61 3 8727 7111	+61 3 8727 7111
Other emergency telephone numbers	ray.cahill@sdi.com.au	Not Available	Not Available

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture		
Poisons Schedule	Not Applicable	
Classification ^[1]	Metal Corrosion Category 1, Acute Toxicity (Oral) Category 4, Acute Toxicity (Inhalation) Category 1, Skin Corrosion/Irritation Category 2, Eye Irritation Category 2A, Reproductive Toxicity Category 1B, Specific target organ toxicity - repeated exposure Category 1, Chronic Aquatic Hazard Category 1	
Legend:	1. Classification by vendor; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI	
abel elements		
Hazard pictogram(s)		
SIGNAL WORD	DANGER	

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H290	May be corrosive to metals.
H302	Harmful if swallowed.
H330	Fatal if inhaled.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H360D	May damage the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statement(s) Prevention

P201	Obtain special instructions before use.
P260	Do not breathe dust/fume.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P234	Keep only in original container.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P284	Wear respiratory protection.

Precautionary statement(s) Response

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF exposed or concerned: Get medical advice/attention.
Immediately call a POISON CENTER or doctor/physician.
Specific treatment is urgent (see advice on this label).
Take off contaminated clothing and wash before reuse.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
Absorb spillage to prevent material damage.
Collect spillage.
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
IF ON SKIN: Wash with plenty of water and soap.
Rinse mouth.
If skin irritation occurs: Get medical advice/attention.

Precautionary statement(s) Storage

P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.

Precautionary statement(s) Disposal

P501 Dis

Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
Not Available		capsules
7439-97-6	40-50	mercury (elemental)

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.
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Permite; Lojic Plus; GS-80; GS-80 Spherical; F400; Ultracaps Plus; Ultracaps S; SDI Admix; SDI Spherical; New Ultrafine - Capsules

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 airway, should be removed, where possible, prior to initiating first aid procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor, without delay. 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	Seek medical attention. Rinse mouth with water. Drink large quantities of water (if conscious)

Indication of any immediate medical attention and special treatment needed

Moderate adsorption of inorganic mercury compounds through the gastro-intestinal tract (7-15%) is the principal cause of poisoning. These compounds are highly concentrated (as the mercuric (Hg (2+) form) in the kidney; acute ingestion may lead to oliguric renal failure. Severe mucosal necrosis may also result from ingestion.

- Chronic effects range from proteinuria to nephrotic syndrome. Chronic presentation also involves dermatitis, gingivitis, stomatitis, tremor and neuropsychiatric symptoms of
- erethism.

Deter 1. Tot 2. Tot

- Absorbed inorganic mercury does not significantly cross the blood-brain barrier.
- Emesis and lavage should be initiated following acute ingestion.
- Activated charcoal interrupts absorption; cathartics should be administered when charcoal is given.
- The use of British Anti-Lewisite is indicated in severe inorganic poisoning. Newer derivatives of BAL (e.g. dimercaptosuccinic acid, [DMSA] and 2,3-dimercapto-1-propanesulfate [DMPS]) may prove more effective. [Ellenhorn and Barceloux: Medical Toxicology]

BIOLOGICAL EXPOSURE INDEX - BEI

These represent the determinants observed in specimens from a healthy worker exposed at the Exposure Standard (ES or TLV).

	a nearrightenner expected at the Expe		
erminant	Index	Sampling Time	Comments
otal inorganic mercury in urine	35 ug/gm creatinine	Preshift	В
otal inorganic mercury in blood	15 ug/L	End of shift at end of workweek	В

B: Background levels occur in specimens collected from subjects **NOT** exposed. for corrosives:

BASIC TREATMENT

- Establish a patent airway with suction where necessary
- Watch for signs of respiratory insufficiency and assist ventilation as necessary.
- Administer oxygen by non-rebreather mask at 10 to 15 l/min.
- Monitor and treat, where necessary, for pulmonary oedema.
- Monitor and treat, where necessary, for shock.
- Anticipate seizures.
- Where eyes have been exposed, flush immediately with water and continue to irrigate with normal saline during transport to hospital.
- DO NOT use emetics. Where ingestion is suspected rinse mouth and give up to 200 ml water (5 ml/kg recommended) for dilution where patient is able to swallow, has a strong gag reflex and does not drool.
- Skin burns should be covered with dry, sterile bandages, following decontamination.
- DO NOT attempt neutralisation as exothermic reaction may occur.

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ADVANCED TREATMENT

- Consider orotracheal or nasotracheal intubation for airway control in unconscious patient or where respiratory arrest has occurred.
- Positive-pressure ventilation using a bag-valve mask might be of use.
- Monitor and treat, where necessary, for arrhythmias.
- Start an IV D5W TKO. If signs of hypovolaemia are present use lactated Ringers solution. Fluid overload might create complications.
- Drug therapy should be considered for pulmonary oedema.
- + Hypotension with signs of hypovolaemia requires the cautious administration of fluids. Fluid overload might create complications.
- Treat seizures with diazepam.
- Proparacaine hydrochloride should be used to assist eye irrigation.

EMERGENCY DEPARTMENT

- Laboratory analysis of complete blood count, serum electrolytes, BUN, creatinine, glucose, urinalysis, baseline for serum aminotransferases (ALT and AST), calcium, phosphorus and magnesium, may assist in establishing a treatment regime.
- Positive end-expiratory pressure (PEEP)-assisted ventilation may be required for acute parenchymal injury or adult respiratory distress syndrome.
- Consider endoscopy to evaluate oral injury.
- Consult a toxicologist as necessary.

BRONSTEIN, A.C. and CURRANCE, P.L. EMERGENCY CARE FOR HAZARDOUS MATERIALS EXPOSURE: 2nd Ed. 1994

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

- Water spray or fog.
- ▶ Foam.
- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.

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Special hazards arising from the substrate or mixture

Fire Incompatibility	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. Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or water course. Use fire fighting procedures suitable for surrounding 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. Slight hazard when exposed to heat, flame and oxidisers.
Fire/Explosion Hazard	Contains low boiling substance: Closed containers may rupture due to pressure buildup under fire conditions. Articles and manufactured articles may constitute a fire hazard where polymers form their outer layers or where combustible packaging remains in place. Certain substances, found throughout their construction, may degrade or become volatile when heated to high temperatures. This may create a secondary hazard. May emit corrosive fumes. May emit poisonous fumes.
HAZCHEM	2X

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	 Use suction bottle to collect small amounts of mercury. Calcium polysulfide with excess sulfur can be sprinkled into cracks or other inaccessible places to convert mercury globules into the sulfide. Collect solid residues and place in tightly sealed, clean, dry containers Clean up all spills immediately. Secure load if safe to do so. Bundle/collect recoverable product. Collect remaining material in containers with covers for disposal.
Major Spills	 Avoid all personal contact and wear full protective equipment Environmental hazard: contain spillage. Stop leak if safe to do so Clean up bulk mercury spillage by mechanical means, suck up where practicable. Calcium polysulfide with excess sulfur can be sprinkled into cracks or other inaccessible places to convert mercury globules into the sulfide. (Proprietary products are available for this purpose) Collect solid residues and place in clean, dry, sealable plastic drums. Ensure that all residues are cleaned up. Do NOT wash spill area after clean up. Vacuum up residues.

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

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

Safe handling	 Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Avoid contact with moisture. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers. Always wash hands with soap and water after handling. Work clothes should be laundered separately. Launder contaminated clothing before re-use. Use good occupational work practice. 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.
Other information	Store below 25 deg. C. Store in a dry and well ventilated-area, away from heat and sunlight.

Suitable container	DO NOT repack. Use containers supplied by manufacturer only.
Storage incompatibility	Avoid reaction with oxidising agents

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

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OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA								
Source	Ingredient	Material nam	e	TWA		STEL	Peak	Notes
Australia Exposure Standards	mercury (elemental)	Mercury, elem	nental vapour (as Hg)	0.003 pp	om / 0.025 mg/m3	Not Available	Not Available	Not Available
EMERGENCY LIMITS								
Ingredient	Material name		TEEL-1		TEEL-2		TEEL-3	
mercury (elemental)	Mercury vapor		0.15 mg/m3		Not Available		Not Available	
In mode of	Original IDI II				Davies d IDLU			
Ingredient	Original IDLH				Revised IDLH			
mercury (elemental)	Not Available				Not Available			

MATERIAL DATA

Exposure controls

	be highly effective in protecting workers and will typically be The basic types of engineering controls are: Process controls which involve changing the way a job activi Enclosure and/or isolation of emission source which keeps a "adds" and "removes" air in the work environment. Ventilation ventilation system must match the particular process and chu Employers may need to use multiple types of controls to pre- Local exhaust ventilation usually required. If risk of overexpo protection. Supplied-air type respirator may be required in sp An approved self contained breathing apparatus (SCBA) ma Provide adequate ventilation in warehouse or closed storage	ity or process is done to reduce the risk. selected hazard "physically" away from the worker and ven n can remove or dilute an air contaminant if designed proper emical or contaminant in use. vent employee overexposure. seure exists, wear approved respirator. Correct fit is essential becial circumstances. Correct fit is essential to ensure adequ y be required in some situations. e area. Air contaminants generated in the workplace possess	of protection. tilation that strategically I/y. The design of a I to obtain adequate tate protection. s varying "escape"		
	velocities which, in turn, determine the "capture velocities" of Type of Contaminant:	r resh circulating an required to enectively remove the conta	Air Speed:		
	solvent, vapours, degreasing etc., evaporating from tank (i	in still air).	0.25-0.5 m/s (50-100 f/min.)		
	aerosols, fumes from pouring operations, intermittent conta drift, plating acid fumes, pickling (released at low velocity i		0.5-1 m/s (100-200 f/min.)		
Appropriate engineering controls	direct spray, spray painting in shallow booths, drum filling, generation into zone of rapid air motion)	conveyer loading, crusher dusts, gas discharge (active	1-2.5 m/s (200-500 f/min.)		
	grinding, abrasive blasting, tumbling, high speed wheel ge very high rapid air motion).	nerated dusts (released at high initial velocity into zone of	2.5-10 m/s (500-2000 f/min.)		
	Within each range the appropriate value depends on:	1			
	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 Simple theory shows that air velocity falls rapidly with distance with the square of distance from the extraction point (in simp	4: Small hood-local control only ce away from the opening of a simple extraction pipe. Veloci			
		4: Small hood-local control only ce away from the opening of a simple extraction pipe. Veloci le cases). Therefore the air speed at the extraction point sho ng source. The air velocity at the extraction fan, for example in a tank 2 meters distant from the extraction point. Other me us, make it essential that theoretical air velocities are multipli nerally don't require engineering controls during handling or	uld be adjusted, , should be a minimum of echanical considerations, ied by factors of 10 or in normal use.		
Personal protection	Simple theory shows that air velocity falls rapidly with distant with the square of distance from the extraction point (in simp accordingly, after reference to distance from the contamination 1-2 m/s (200-400 f/min) for extraction of solvents generated producing performance deficits within the extraction apparate more when extraction systems are installed or used. Articles or manufactured items, in their original condition, gen Exceptions may arise following extensive use and subseque	4: Small hood-local control only ce away from the opening of a simple extraction pipe. Veloci le cases). Therefore the air speed at the extraction point sho ng source. The air velocity at the extraction fan, for example in a tank 2 meters distant from the extraction point. Other me us, make it essential that theoretical air velocities are multipli nerally don't require engineering controls during handling or	uld be adjusted, , should be a minimum of echanical considerations, ied by factors of 10 or in normal use.		
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Respiratory protection

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

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

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

^ - Full-face

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

Respiratory protection not normally required due to the physical form of the product.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Silver alloy powder and mercury in separate compartments of a p liquid metal (Mercury) with no odour, insoluble in water.	lastic capsule. Grey fine metallic pow	der (Silver alloy) and silver-white heavy
Physical state	Manufactured	Relative density (Water = 1)	13.6 (Mercury)
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable
pH (as supplied)	Not Applicable	Decomposition temperature	Not Available
Melting point / freezing point (°C)	356.6 (Mercury)	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	-38.9 (Mercury)	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Not Available	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 Applicable
Vapour pressure (kPa)	0 @ 20 deg C (Mercury)	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Applicable
Vapour density (Air = 1)	-6.9 (Mercury)	VOC g/L	Not Available

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	 Unstable in the presence of incompatible materials. 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

Inhaled	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. The use of a quantity of material in an unventilated or confined space may result in increased exposure and an irritating atmosphere developing. Before starting consider control of exposure by mechanical ventilation. Inhalation of aerosols (mists, fumes), generated by the material during the course of normal handling, may produce severely toxic effects. Relatively small amounts absorbed from the lungs may prove fatal. Limited evidence or practical experience suggests that the material may produce irritation of the respiratory system, in a significant number of individuals, following inhalation. In contrast to most organs, the lung is able to respond to a chemical insult by first removing or neutralising the irritant and then repairing the damage. The repair process, which initially evolved to protect mammalian lungs from foreign matter and antigens, may however, produce further lung damage resulting in the impairment of gas exchange, the primary function of the lungs. Respiratory tract irritation often results in an inflammatory response involving the recruitment and activation of many cell types, mainly derived from the vascular system.
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Ingestion 9 days following ingestion. A second phase developing over 1-3 days is characterised by stomattis (lesions of the mouth parts), membranous oblitis and kidney damage (lubular nephritis). This second phase is associated with a slow and prolonged excretion of mercury by salivary gland the gastrointestinal mucosa and kidneys. Death in this phase usually occurs as a result of kidney diature. The alimentary effects of many mercury compounds are so rapid that the course and outlook is largely determined by events within the first 5-17 minutes. Acute systemic "mercuralians" may be lethal within a few minutes or deat may be delayed for 5-12 days. The ionisable salts are corrosive and tissue damage occurs almost immediately in the mouth, throat and oesophagus. Skin Contact Limited evidence exists, or practical experience predicts, that the material either produces inflammation of the skin in a substantial number of individuals following direct contact, and/or produces significant inflammation when applied to the healthy intact skin of animals, for up to four produced or repeated exposure, this may result in a form of contact dermatitis (nonallergic). The dermatitis is often characterised by skin metrices (erythema) and swelling (oedema) which may progress to bilstering (vesiculation), scaling and thickening of the epidermis. At the microsocile level there may be intercellular codema of the spony layer of the skin (spongiosis) and intracellular odema of the epidermis. Copen cuts, abraded or irritated skin should not be exposed to this material Even Evidence exists, or practical experience predicts, that the material and ensure that any externed damage is suitably protected. Irritation and skin reactions are possible with asensitive skin Evidence exists, or practical experience predicts, th	A Skin Irritati Serious Eye Dam Respir	ELEMENTAL)	Asthma-like symptoms may continue for months or er condition known as reactive airways dysfunction sync compound. Key criteria for the diagnosis of RADS inco onset of persistent asthma-like symptoms within minu spirometry, with the presence of moderate to severe I lymphocytic inflammation, without eosinophilia, have irritating inhalation is an infrequent disorder with rates Industrial bronchitis, on the other hand, is a disorder in particulate in nature) and is completely reversible after production. Animal studies have shown that mercury may be a re	ven years after exposure to the materi drome (RADS) which can occur followi slude the absence of preceding respira ites to hours of a documented exposu bronchial hyperreactivity on methachol also been included in the criteria for di s related to the concentration of and di that occurs as result of exposure due t er exposure ceases. The disorder is ch productive effector. Carcinogenicity Reproductivity STOT - Single Exposure STOT - Repeated Exposure Aspiration Hazard	ng exposure to high levels of hig tory disease, in a non-atopic ind re to the irritant. A reversible airf ine challenge testing and the lar agnosis of RADS. RADS (or ast irration of exposure to the irritatir o high concentrations of irritating aracterised by dyspnea, cough	non-allergenic ghly irritating lividual, with abrupt flow pattern, on ck of minimal thma) following an ng substance. g substance (often and mucus		
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Spherical; New Ultrafine - Capsules Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual. Following ingestion of mercury compounds, symptoms may appear within the first few minutes and may include pain, profuse vomiting and severe purging; the victim may die within a few hours from peripheral vascular collapse secondary to fluid and electrolyte loss. Primary gastroenterlitis may subside spontaneously within a few days but severe haemorrhagic inflammation of the colon (colitis) has occurred as late e 9 days following ingestion. A second phase developing over 1-3 days is characterised by stomatitis (lesions of the mouth parts), membranous colitis and kidney damage (tubular nephritis). This second phase is associated with a slow and prolonged excretion of mercury by salivary glar the gastrointestinal muccosa and kidneys. Death in this phase usually occurs as a result of kidney failure. The alimentary effects of many mercury compounds are so rapid that the course and outlook is largely determined by events within the first 5- minutes. Acute systemic "mercurialism" may be lethal within a few minutes or death may be delayed for 5-12 days. The ionisable salts are corrosive and tissue damage occurs almost immediately in the mouth, throat and oesophagus. Skin Contact Limited evidence exists, or practical experience predicts, that the material either produces inflammation of the exist in a substantial number of individuals following direct contact, and/or produces significant inflammation when applied to the healthy intact skin of animals, for up to four hours, such inflammation being present twenty-four hours or more after the end of the exposure period. Skin irritation may also be present after prolonge		Eye	produce significant ocular lesions which are present t Repeated or prolonged eye contact may cause inflam (conjunctivitis); temporary impairment of vision and/or	wenty-four hours or more after instillat mation characterised by temporary re r other transient eye damage/ulceratio	ion into the eye(s) of experimen dness (similar to windburn) of th	tal animals.		
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Spherical; New Ultrafine - Capsules Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may		Ingestion	severe purging; the victim may die within a few hours from peripheral vascular collapse secondary to fluid and electrolyte loss. Primary gastroenteritis may subside spontaneously within a few days but severe haemorrhagic inflammation of the colon (colitis) has occurred as late as 9 days following ingestion. A second phase developing over 1-3 days is characterised by stomatitis (lesions of the mouth parts), membranous colitis and kidney damage (tubular nephritis). This second phase is associated with a slow and prolonged excretion of mercury by salivary glands, the gastrointestinal mucosa and kidneys. Death in this phase usually occurs as a result of kidney failure. The alimentary effects of many mercury compounds are so rapid that the course and outlook is largely determined by events within the first 5-10 minutes. Acute systemic "mercuralism" may be lethal within a few minutes or death may be delayed for 5-12 days. The ionisable salts are					
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Permite: Loiic Plus: GS-80: GS-80 Spherical: E400: Ultracaps Plus: Ultracaps S: SDI Admiv: SDI			opnonoui, non on	ranne - Capsules	s S; SDI Admix; SDI			

Toxicity

Permite; Lojic Plus; GS-80; GS-80 Spherical: F400:	ENDPOINT TEST DURATION (HR)	SPECIES	VALUE SOURCE
00-00 Spherical, 1 400,			

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Permite; Lojic Plus; GS-80; GS-80 Spherical; F400; Ultracaps Plus; Ultracaps S; SDI Admix; SDI Spherical; New Ultrafine - Capsules

Ultracaps Plus; Ultracaps S; SDI Admix; SDI Spherical; New Ultrafine - Capsules	Not Available	Not Available	Not Available	Not Available	Not Available	
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE	
	LC50	96	Fish	0.001-0.21mg/L	2	
	EC50 48 Crustacea 0.0003mg/L 2					
mercury (elemental)	EC50 72 Algae or other aquatic plants 0.0025mg/L 4					
	BCF 720 Fish 0.001mg/L 4					
	NOEC	2688	Crustacea	0.00025mg/L	2	
Legend:	V3.12 (QSAR) -	Aquatic Toxicity Data (Estimated) 4.	HA Registered Substances - Ecotoxicological Info US EPA, Ecotox database - Aquatic Toxicity Data 1 (Japan) - Bioconcentration Data 8. Vendor Data			

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. **DO NOT** discharge into sewer or waterways.

Persistence and degradability

No Data available for all ingredients No Data available for all ingredients	Ingredient	Persistence: Water/Soil	Persistence: Air	
		No Data available for all ingredients	No Data available for all ingredients	

Bioaccumulative potential

Ingredient	Bioaccumulation
	No Data available for all ingredients
Mahilita in anil	

Mobility in soli	
Ingredient	Mobility
	No Data available for all ingredients

SECTION 13 DISPOSAL CONSIDERATIONS

Product / Packaging disposal	 The 1991 Environmental Protection (Duty of Care) Regulations SI No. 2839 and amendments should be noted (United Kingdom). Consult State Land Waste Management Authority for disposal. Recycle wherever possible. Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified. Treat and neutralise at an approved treatment plant. Treatment should involve: Mixing or slurrying in water; Neutralisation followed by: buria in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or Incineration in a licensed apparatus (after admixture with suitable combustible material)
	Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

SECTION 14 TRANSPORT INFORMATION

Labels Required

Marine Pollutant	
HAZCHEM 2X	

Land transport (ADG)

UN number	3506	
UN proper shipping name	MERCURY CONTAINED IN MANUFACTURED ARTICLES	
Transport hazard class(es)	Class 8 Subrisk 6.1	
Packing group	Not Applicable	
Environmental hazard	Environmentally hazardous	

Permite; Lojic Plus; GS-80; GS-80 Spherical; F400; Ultracaps Plus; Ultracaps S; SDI Admix; SDI Spherical; New Ultrafine - Capsules

	Special provisions 366
Special precautions for user	Limited quantity 5 kg

Air transport (ICAO-IATA / DGR)

UN number	3506	
UN proper shipping name	Mercury contained in manufactured articles	
Transport hazard class(es)	ICAO/IATA Class 8 ICAO / IATA Subrisk 6.1 ERG Code 8L	
Packing group	Not Applicable	
Environmental hazard	Environmentally hazardous	
	Special provisions	A48 A69 A191
Special precautions for user	Cargo Only Packing Instructions	869
	Cargo Only Maximum Qty / Pack	No Limit
	Passenger and Cargo Packing Instructions	869
	Passenger and Cargo Maximum Qty / Pack	No Limit
	Passenger and Cargo Limited Quantity Packing Instruction	ons Forbidden
	Passenger and Cargo Limited Maximum Qty / Pack	Forbidden

Sea transport (IMDG-Code / GGVSee)

UN number	3506		
UN proper shipping name	MERCURY CONTAINED IN MANUFACTURED ARTICLES		
Transport hazard class(es)	IMDG Class 8 IMDG Subrisk 6.1		
Packing group	Not Applicable		
Environmental hazard	Marine Pollutant		
Special precautions for user	EMS NumberF-A , S-BSpecial provisions366Limited Quantities5 kg		

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

Not Applicable

UN 3506 - Special Provision 366:

For land and sea transport, manufactured instruments and articles containing not more than 1 kg of mercury are not subject to this Code. For air transport, articles containing not more than 15 g of mercury are not subject to this Code.

SECTION 15 REGULATORY INFORMATION

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

MERCURY (ELEMENTAL) 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) -	
Australia Dangerous Goods Code (ADG Code) - List of Emergency Action Codes	Schedule 2	
Australia Exposure Standards	Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) -	
Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals	Schedule 4	
Australia Inventory of Chemical Substances (AICS)	Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) -	
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) -	Schedule 7	
Appendix G	International Agency for Research on Cancer (IARC) - Agents Classified by the IARC	
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) -	Monographs	
Appendix J (Part 2)	International Air Transport Association (IATA) Dangerous Goods Regulations	
	International Maritime Dangerous Goods Requirements (IMDG Code)	
	United Nations Recommendations on the Transport of Dangerous Goods Model Regulations	

National Inventory Status

National Inventory	Status		
Australia - AICS	Yes		
Canada - DSL	Yes		
Canada - NDSL	No (mercury (elemental))		
China - IECSC	Yes		
Europe - EINEC / ELINCS / NLP	Yes		

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Permite; Lojic Plus; GS-80; GS-80 Spherical; F400; Ultracaps Plus; Ultracaps S; SDI Admix; SDI Spherical; New Ultrafine - Capsules

Japan - ENCS	No (mercury (elemental))		
Korea - KECI	Yes		
New Zealand - NZIoC	Yes		
Philippines - PICCS	Yes		
USA - TSCA	Yes		
Taiwan - TCSI	Yes		
Mexico - INSQ	Yes		
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)		

SECTION 16 OTHER INFORMATION

Revision Date	01/11/2019
Initial Date	02/11/2015

SDS Version Summary

Version	Issue Date	Sections Updated
2.1.1.1	02/11/2015	First Aid (swallowed)
6.1.1.1	01/11/2019	One-off system update. NOTE: This may or may not change the GHS classification

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by SDI Limited 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** The information contained in the Safety Data Sheet is based on data considered to be accurate, however, no warranty is expressed or implied regarding the accuracy of the data or the results to be obtained from the use thereof.

Other information:

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