

Permite; Lojic +; GS-80, GS-80 Spherical; F400; Ultracaps +; Ultracaps S; SDI Admix; SDI Spherical and New Ultrafine- Capsules

Version No: 5.1.1.1 Safety Data Sheet (Conforms to Regulations (EC) No 2015/830)

Issue Date: 12/01/2016 Print Date: 23/03/2016 Initial Date: Not Available L.REACH.GBR.EN

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

| Product name | Permite: Leile ti CS 90 CS 90 Cabada I 5100 II | | Company of the control of the control of |
|-----------------------------------|---------------------------------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Synonyms | Not Available | Itracaps +; Ultracaps S; SDI Admix; SDI Spherical an | nd New Ultrafine- Capsules |
| Proper shipping name | MERCURY CONTAINED IN MANUFACTURED | APTICLES | |
| Other means of identification | Not Available | ANIOLES | |
| 1.2. Relevant identified use | es of the substance or mixture and uses | advised against | |
| Relevant identified uses | For filling of cavitated teeth by dental professionals. | | EXT II - FOR SEE IF - INC. ALSO MAN WHEN ME WAS |
| Uses advised against | Not Applicable | | |
| 1.3. Details of the supplier | of the safety data sheet | | |
| Registered company name | SDI Limited | SDI Brazil Industria E Comercio Ltda | SDI Germany GmbH |
| Address | 3-15 Brunsdon Street VIC Bayswater 3153 Australia | Rua Dr. Virgilio de Carvalho Pinto, 612 São Paulo CEP 05415-020 Brazil | Hansestrasse 85 Cologne D-51149 Germany |
| Telephone | +61 3 8727 7111 (Business Hours) | +55 11 3092 7100 | +49 0 2203 9255 0 |
| Fax | +61 3 8727 7222 | +55 11 3092 7101 | +49 0 2203 9255 200 |
| Website | www.sdi.com.au | www.sdi.com.au | www.sdi.com.au |
| Email | info@sdi.com.au | brasil@sdi.com.au | germany@sdi.com.au |
| Registered company name | SDI (North America) Inc. | | (7 (7 (7))) |
| Address | 1279 Hamilton Parkway IL Itasca 60143 United State | es | the state of the s |
| Telephone | +1 630 361 9200 (Business hours) | | |
| Fax | Not Available | | the second secon |
| Website | Not Available | | with a contract the second sec |
| Email | USA.Canada@sdi.com.au | | |
| I.4. Emergency telephone | number | | |
| Association / Organisation | SDI Limited | Not Available | Not Available |
| Emergency telephone numbers | +61 3 8727 7111 | Not Available | Not Available |
| Other emergency telephone numbers | ray.cahill@sdi.com.au | Not Available | Not Available |
| Association / Organisation | Not Available | | |
| Emergency telephone numbers | +61 3 8727 7111 | | |
| Other emergency telephone numbers | Not Available | | |

SECTION 2 HAZARDS IDENTIFICATION

2.1.Classification of the substance or mixture

Considered a dangerous mixture according to Directive 1999/45/EC, Reg. (EC) No 1272/2008 (if applicable) and their amendments. Classified as Dangerous Goods for transport purposes.

DSD classification In case of mixtures, classification has been prepared by following DPD (Directive 1999/45/EC) and CLP Regulation (EC) No 1272/2008 regulations

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Print Date: 23/03/2016

DPD classification [1]

R22 Harmful if swallowed.

R26 Very toxic by inhalation.

R36 Imitating to eyes. R48/23

Toxic: danger of serious damage to health by prolonged exposure through inhalation.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R61(2) May cause harm to the unborn child.

Legend: Classification according to regulation (EC) No

1. Classification by vendor; 2. Classification drawn from EC Directive 67/548/EEC - Annex I; 3. Classification drawn from EC Directive 1272/2008 - Annex VI

Metal Corrosion Category 1, Acute Toxicity (Oral) Category 4, Acute Toxicity (Inhalation) Category 2, Eye Irritation Category 2, Reproductive Toxicity Category 1B, Specific target organ toxicity - repeated exposure Category 1, Chronic Aquatic Hazard Category 1

1272/2008 [CLP] [1] Legend:

1. Classification by vendor; 2. Classification drawn from EC Directive 67/548/EEC - Annex I; 3. Classification drawn from EC Directive 1272/2008 - Annex VI

2.2. Label elements









| SIGNAL WORD | DANGER |
|---------------------------------|--------|
| | A |
| 10.000 (10.000 (10.000 (10.000) | |

Hazard statement(s)

| H290 | May be corrosive to metals. |
|------|------------------------------------------------------|
| H302 | Harmful if swallowed. |
| H330 | Fatal if inhaled. |
| H319 | Causes serious eye imitation. |
| H360 | May damage fertility or the unborn child. |
| H372 | Causes damage to organs. |
| H410 | Very toxic to aquatic life with long lasting effects |

Supplementary statement(s)

Precautionary statement(s) Prevention

| P201 | Obtain special instructions before use. |
|------|----------------------------------------------------------------------------|
| 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. |
| P234 | Keep only in original container. |
| P270 | Do not eat, drink or smoke when using this product. |
| P273 | Avoid release to the environment. |
| P284 | [In case of inadequate ventilation] wear respiratory protection. |

Precautionary statement(s) Response

| IF INHALED: Remove person to fresh air and keep comfortable for breathing. | | |
|----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IF exposed or concerned: Get medical advice/ attention. | | |
| Immediately call a POISON CENTER/doctor/physician/first aider. | | |
| IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if prese | nt and easy to do | o. Continue rinsing |
| If eye irritation persists: Get medical advice/attention. | | |
| Absorb spillage to prevent material damage. | | |
| Collect spillage. | | |
| IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider/if you feel unwell. | | |
| Rinse mouth. | | |
| | | |
| | IF exposed or concerned: Get medical advice/ attention. Immediately call a POISON CENTER/doctor/physician/first aider. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if prese if eye irritation persists: Get medical advice/attention. Absorb spillage to prevent material damage. Collect spillage. IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider/ff you feel unwell. | IF exposed or concerned: Get medical advice/ attention. Immediately call a POISON CENTER/doctor/physician/first aider. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do if eye irritation persists: Get medical advice/attention. Absorb spillage to prevent material damage. Collect spillage. IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider/if you feel unwell. |

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 Dispose of contents/container in accordance with local regulations.

2.3. Other hazards

Cumulative effects may result following exposure*.

Permite; Lojic +; GS-80, GS-80 Spherical; F400; Ultracaps +; Ultracaps S; SDI Admix; SDI Spherical and New Ultrafine- Capsules

May produce discomfort of the respiratory system and skin*.

REACh - Art.57-59: The mixture does not contain Substances of Very High Concern (SVHC) at the SDS print date.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

3.1.Substances

See 'Composition on ingredients' in Section 3.2

3.2.Mixtures

| 1.CAS No | |
|------------|--|
| 2.EC No | |
| 3.Index No | |
| 4 REACH NO | |

%[weight]

Name

Classification according to directive 67/548/EEC [DSD]

Classification according to regulation (EC) No 1272/2008 [CLP]

1.7439-97-6 2.231-106-7 3.080-001-00-0 4.01-2119548380-42-XXXX

mercury (elemental)

R61, R26, R48/23, R50/53 [2]

Reproductive Toxicity Category 1B, Acute Toxicity (Inhalation) Category 2, Specific target organ toxicity - repeated exposure Category 1, Acute Aquatic Hazard Category 1, Chronic Aquatic Hazard Category 1; H360D, H330, H372, H400, H410 [3]

Legend:

1. Classification by vendor; 2. Classification drawn from EC Directive 67/548/EEC - Annex I; 3. Classification drawn from EC Directive 1272/2008 - Annex VI 4. Classification drawn from C&L

SECTION 4 FIRST AID MEASURES 4.1. Description of first aid measures

- Immediately remove all contaminated clothing, including footw
 Flush skin and hair with running water (and soap if available).
 Seek medical attention in event of irritation.

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.
- If fumes or combustion products are inhaled remove from contaminated are
- 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
- Transport to hospital, or doctor, without delay
- ation 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 bedomethasone derivative may be considered.
 This must definitely be left to a doctor or person authorised by him/her.

Seek medical attention.

Rinse mouth with water. Drink large quantities of water (if conscious)

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. If skin contact occurs:

Skin Contact

- Immediately remove all contaminated clothing, including footwear.
- Flush skin and hair with running water (and soap if available).
- Seek medical attention in event of initation.
- 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
- Transport to hospital, or doctor, without delay. Inhalation
 - Inhalation of vapours or aerosols (mists, furnes) 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 manife tion, the administration of a spray containing a dexamethasone derivative or bedomethasone 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)

4.2 Most important symptoms and effects, both acute and delayed

Permite; Lojic +; GS-80, GS-80 Spherical; F400; Ultracaps +; Ultracaps S; SDI Admix; SDI Spherical and New Ultrafine- Capsules

See Section 11

4.3. 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.
 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).

Total inorganic mercury in urine
 Total inorganic mercury in blood

35 ug/gm creatinine

Sampling Time

Comments

Preshift End of shift at end of workwe

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 droot.
- Skin burns should be covered with dry, sterile bandages, following decontamination.
 DO NOT attempt neutralisation as exothermic reaction may occur.

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

5.1. Extinguishing media

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

5.2. 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

5.3. Advice for firefighters

- 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.
- Fire Fighting
- 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 furnes. May emit poisonous furnes.

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.2. Environmental precautions

Minor Spills

Major Spills

See section 12

6.3. Methods and material for containment and cleaning up

Use suction bottle to collect small amounts of mercury.

- Ose social register to context small an incurs or intercury. 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.
 - Avoid all personal contact and wear full protective equipme
 - 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.

6.4. Reference to other sections

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

SECTION 7 HANDLING AND STORAGE

7.1. Precautions for 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.

Fire and explosion

Safe handling

Other information

Store below 25 deg. C.

Store in a dry and well ventilated-area, away from heat and sunlight.

7.2. Conditions for safe storage, including any incompatibilities

See section 5

Suitable container Storage incompatibility

- ▶ DO NOT repack. Use containers supplied by manufacturer only.
- Avoid reaction with oxidising agents

7.3. Specific end use(s)

See section 1.2

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

DERIVED NO EFFECT LEVEL (DNEL)

Not Available

PREDICTED NO EFFECT LEVEL (PNEC)

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

| Source | Ingredient | Material name | TWA | STEL | Peak | Notes |
|---------------------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------|---------------|------------------|------------------|------------------|
| UK Workplace Exposure Limits (WELs) | mercury (elemental) | Mercury and divalent inorganic compounds including mercuric oxide and mercuric chloride (measured as mercury) | 0.02 mg/m3 | Not Available | Not Available | Not Available |
| European Union (EU) Third List of Indicative Occupational Exposure Limit Values | mercury (elemental) | Mercury and divalent inorganic mercury compounds including mercuric oxide and mercuric chloride (measured as mercury) (7) | 0,02 mg/m3 | Not Available | Not Available | Not Available |

Permite; Lojic +; GS-80, GS-80 Spherical; F400; Ultracaps +; Ultracaps S; SDI Admix; SDI Spherical and New Ultrafine- Capsules

Print Date: 23/03/2016

(IOELVs) (English)

EMERGENCY LIMITS

Ingredient

Material name Mercury vapor

TEEL-1 0.15 mg/m3 TEFL-2

TEEL-3 Not Available

mercury (elemental)

Original IDLH

Not Available

mercury (elemental)

10 mg/m3 / 28 mg/m3

Type of Contaminant:

Revised IDLH 2 mg/m3 / 10 mg/m3

MATERIAL DATA

Ingredient

8.2. Exposure controls

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

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

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

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

Local exhaust ventilation usually required. If risk of overexposure exists, wear approved respirator. Correct fit is essential to obtain adequate protection. Supplied-air type respirator may be required in special circumstances. Correct fit is essential to ensure adequate protection. An approved self contained breathing apparatus (SCBA) may be required in some situations.

Provide adequate ventilation in warehouse or closed storage area. 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.

Air Speed: 0.25-0.5 m/s (50-100 solvent, vapours, degreasing etc., evaporating from tank (in still air). f/min.) aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating 0.5-1 m/s (100-200 acid furnes, pickling (released at low velocity into zone of active generation) f/min.) direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into 1-2.5 m/s (200-500

grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high rapid

8.2.1. Appropriate engineering controls

Within each range the appropriate value depends on:

Lower end of the range 1: Room air currents minimal or favourable to capture

2: Contaminants of low toxicity or of nuisance value only.

3: Intermittent, low production.

4: Large hood or large air mass in motion

Upper end of the range

1: Disturbing room air currents

f/min.)

f/min.)

2.5-10 m/s (500-2000

2: Contaminants of high toxicity

3: High production heavy use 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 offipte areas shows that all venturing that appuny with unstance away but not objecting a sample about 1990. Venturing the standard of the standard of distance from 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 fmin) 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. Articles or manufactured items, in their original condition, generally don't require engineering controls during handling or in normal use.

Exceptions may arise following extensive use and subsequent wear, during recycling or disposal operations where substances, found in the article, may be ed to the environment

8.2.2. Personal protection

Eve and face protection











fety glas

Chemical goggles

as may pose a special hazard; soft contact lenses may absorb and concentrate imitants. 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 imitation - 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 Hands/feet protection **Body protection** See Hand protection below

Wear impervious gloves See Other protection below

PVC Apron

Other protection

PVC protective suit may be required if exposure severe

ash unit.

 Ensure there is ready access to a safety shower. Not Available

Thermal hazards

Respiratory protection

Permite; Lojic +; GS-80, GS-80 Spherical; F400; Ultracaps +; Ultracaps S; SDI Admix; SDI Spherical and New Ultrafine- Capsules

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 fitter.

| Required Minimum Protection Factor | Half-Face Respirator | Full-Face Respirator | Powered Air Respirator | |
|------------------------------------|----------------------|----------------------|---------------------------------------|--|
| up to 10 x ES | HG-AUS P2 | 100 | 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 ^ | |

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)

8.2.3. Environmental exposure controls

See section 12

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| Appearance | Silver alloy powder and mercury in separate compa (Mercury) with no odour, insoluble in water. | rtments of a plastic capsule. Grey fine metallic powder (Silv | er alloy) and silver-white heavy liquid med |
|----------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------|
| 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 |
| Ipper 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 (g/L) | Immiscible | pH as a solution (1%) | Not Applicable |
| Vapour density (Air = 1) | -6.9 (Mercury) | VOC g/L | Not Available |

9.2. Other information

Not Available

SECTION 10 STABILITY AND REACTIVITY

| See section 7.2 | | | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur. | | | | | | |
| See section 7.2 | | | | | | |
| See section 7.2 | | | | | | |
| See section 7.2 | | | | | | |
| See section 5.3 | | | | | | |
| | Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur. See section 7.2 See section 7.2 See section 7.2 | See section 7.2 Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur. See section 7.2 See section 7.2 See section 7.2 | See section 7.2 • Unstable in the presence of incompatible materials. • Product is considered stable. • Hazardous polymerisation will not occur. See section 7.2 See section 7.2 See section 7.2 | See section 7.2 • Unstable in the presence of incompatible materials. • Product is considered stable. • Hazardous polymerisation will not occur. See section 7.2 See section 7.2 See section 7.2 | See section 7.2 • Unstable in the presence of incompatible materials. • Product is considered stable. • Hazardous polymerisation will not occur. See section 7.2 See section 7.2 See section 7.2 | See section 7.2 • Unstable in the presence of incompatible materials. • Product is considered stable. • Hazardous polymerisation will not occur. See section 7.2 See section 7.2 See section 7.2 |

SECTION 11 TOXICOLOGICAL INFORMATION

11.1. 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.

Consider Control of exposure by internation vertication. 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,

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Issue Date: 12/01/2016

Permite; Lojic +; GS-80, GS-80 Spherical; F400; Ultracaps +; Ultracaps S; SDI Admix; SDI Spherical and New Ultrafine- Capsules

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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 imitation often results in an inflammatory response involving the recruitment and activation of many cell types, mainly derived from the vascular system.

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.

damage to the nearm 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 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 d 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 "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 most immediately in the mouth, throat and oesophagus.

Skin Contact

Eve

Chronic

Ingestion

Limited evidence exists, or practical experience predicts, that the material either produces inflammation of the skin in a substantial number of individuals Elimited evidence exists, or practical experience predicts, that the maternal either produces inflammation or the sixth in a substantial number or 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 initiation may also be present after prolonged or repeated exposure; this may result in a form of contact dematitis (nonallergic). The dematitis is often characterised by skin redness (erythema) and swelling (oedema) which may progress to blistering (vesiculation), scaling and thickening of the epidemis. At the microscopic level there may be intercellular oedema of the spongy layer of skin (spongiosis) and intracellular oed ema of the epidemis.

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

Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.

Irritation and skin reactions are possible with sensitive skin

Evidence exists, or practical experience predicts, that the material may cause eye irritation in a substantial number of individuals and/or may produce significant ocular lesions which are present twenty-four hours or more after instillation into the eye(s) of experimental animals.

Repeated or prolonged eye contact may cause inflammation characterised by temporary redness (similar to windbum) of the conjunctiva (conjunctivitis):

temporary impairment of vision and/or other transient eye damage/ulceration may occur Toxic: danger of serious damage to health by prolonged exposure through inhalation.

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

There is sufficient evidence to provide a strong presumption that human exposure to the material may result in developmental toxicity, generally on the basis of:
- clear results in appropriate animal studies where effects have been observed in the absence of marked maternal toxicity, or at around the same dose levels as

other toxic effects but which are not secondary non-specific consequences of the other toxic effects.

oner took eneds but what are not secondary that specialic consequences of the understook eneds.

Repeated or prolonged exposure to corrosives may result in the erosion of teeth, inflamnotry and ulcerative changes in the mouth and necrosis (rarely) of the jaw. Bronchial initiation, with cough, and frequent attacks of bronchial pneumonia may ensue. Gastrointestinal disturbances may also occur. Chronic exposures may result in dermatitis and/or conjunctivitis

Limited evidence suggests that repeated or long-term occupational exposure may produce cumulative health effects involving organs or biochemical systems.

Permite; Lojic +; GS-80, GS-80 Spherical; F400; Ultracaps +; Ultracaps S; SDI Admix; SDI Spherical and New Ultrafine-Capsules

TOXICITY Not Available

IRRITATION

Not Available

TOXICITY

IRRITATION

(Source: RTECS)

Nil reported

mercury (elemental)

Legend:

Oral (rat) LD50: >9.2 mg/kg^[1]

Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

MERCURY (ELEMENTAL)

Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Key criteria for the diagnosis of RADS include the absence of preceding respiratory disease, in a non-atopic individual, with abrupt onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. A reversible airflow pattern, on spirometry, with the presence of moderate to severe bronchial hyperreactivity on methacholine challenge testing and the lack of minimal lymphocytic inflammation, without eosinophilia, have also been included in the criteria for diagnosis of RADS. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the interior in the concentration of and duration of exposure to the interior of the properties of interior or the properties of the properties of interior or the properties of the initiating substance. Industrial bronchists, on the other hand, is a disorder that occurs a result of exposure due to high concentrations of initiating substance. Industrial bronchists, on the other hand, is a disorder that occurs as result of exposure due to high concentrations of initiating substance (often particulate in nature) and is completely reversible after exposure ceases. The disorder is characterised by dyspnea, cough and mucus production. Animal studies have shown that mercury may be a reproductive effector.

Acute Toxicity Skin Irritation/Corrosion Serious Eve Damage/Irritation Respiratory or Skin

Carcinogenicity Reproductivity STOT - Single Exposure

STOT - Repeated Exposure

Aspiration Hazard

Legend:

X − Data available but does not fill the criteria for classification.
 ✓ − Data required to make classification available.

- Data Not Available to make classification

SECTION 12 ECOLOGICAL INFORMATION

Mutagenicity

Permite; Lojic +; GS-80, GS-80 Spherical; F400; Ultracaps +; Ultracaps S; SDI Admix; SDI Spherical and New Ultrafine- Capsules

12.1. Toxicity

| Ingredient | Endpoint | Test Duration (hr) | Species | Value | Source |
|---------------------|---------------------|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------|
| mercury (elemental) | BCF | 720 | Fish | 0.001mg/L | 4 |
| mercury (elemental) | EC50 | 72 | Algae or other aquatic plants | 0.0025mg/L | 4 |
| mercury (elemental) | LC50 | 96 | Fish | 0.004mg/L | 4 |
| mercury (elemental) | EC50 | 240 | Fish | 0.0003mg/L | 5 |
| mercury (elemental) | EC50 | 48 | Crustacea | 0.0003mg/L | 2 |
| mercury (elemental) | NOEC | 2688 | Crustacea | 0.00025mg/L | 2 |
| Legend: | Aquatic Toxicity Da | UCLID Toxicity Data 2. Europe ECH ata (Estimated) 4. US EPA, Ecotox d Data 7. METI (Japan) - Bioconcentral | A Registered Substances - Ecotoxicological Ir atabase - Aquatic Toxicity Data 5. ECETOC Ai tion Data 8. Vendor Data | nformation - Aquatic Toxicity 3. Quatic Hazard Assessment Da | EPIWIN Suite V3. ta 6. NITE (Japan) |

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

Not Available

Not Available

Not Available

12.2. Persistence and degradability

| Ingredient | Persistence: Water/Soil | Persistence: Air |
|---------------|---------------------------------------|----------------------------------------|
| | No Data available for all ingredients | No Data available for all ingredients |
| 12.3. Bioacc | umulative potential | |
| Ingredient | Bioaccumulation | |
| | No Data available for all ingredients | |
| 12.4. Mobilit | ty in soil | S SS S S S S S S S S S S S S S S S S S |
| Ingredient | Mobility | |
| | No Data available for all ingredients | |
| 12.5.Results | of PBT and vPvB assessment | |
| | P | В |

Not Available

Not Available

12.6. Other adverse effects

Relevant available data

PBT Criteria fulfilled?

SECTION 13 DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

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.

Product / Packaging disposi

can be identified.

Treatment should involve: Mixing or sturrying in water; Neutralisation followed by: burial in a land-fill specifically licenced to accept chemical and / or pharmaceutical wastes or Incineration in a licenced apparatus (after admixture with suitable combustible

Not Available

Not Available

- material) Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.
 The 1991 Environmental Protection (Duty of Care) Regulations SI No. 2839 and amendments should be noted (United Kingdom).

Waste treatment options

Not Available

Sewage disposal options

SECTION 14 TRANSPORT INFORMATION

Labels Required



Marine Pollutant

HAZCHEM

Land transport (ADR)

Permite; Lojic +; GS-80, GS-80 Spherical; F400; Ultracaps +; Ultracaps S; SDI Admix; SDI Spherical and New Ultrafine- Capsules

14.1.UN number 3506 14.2.Packing group III 14.3.UN proper shipping MERCURY CONTAINED IN MANUFACTURED ARTICLES 14.4.Environmental hazard Not Applicable Class 14.5. Transport hazard class(es) Subrisk 6.1 Hazard identification (Kemler) Not Applicable Classification code СТЗ Hazard Label 8+6.1 Special provisions Limited quantity 5 kg Air transport (ICAO-IATA / DGR) 14.1. UN number 3506 14.2. Packing group 14.3. UN proper shipping Mercury contained in manufactured articles 14.4. Environmental hazard Not Applicable ICAO/IATA Class 14.5. Transport hazard ICAO / IATA Subrisk 6.1 class(es) ERG Code Special provisions A48 A69 A191 Cargo Only Packing Instructions 869 Cargo Only Maximum Qty / Pack No Limit 14.6. Special precautions for Passenger and Cargo Packing Instructions 869 Passenger and Cargo Maximum Qty / Pack No Limit Passenger and Cargo Limited Quantity Packing Instructions Forbidden Passenger and Cargo Limited Maximum Qty / Pack Forbidden Sea transport (IMDG-Code / GGVSee) 14.1. UN number 3506 14.2. Packing group 115 14.3. UN proper shipping MERCURY CONTAINED IN MANUFACTURED ARTICLES name 14.4. Environmental hazard Marine Pollutant IMDG Class 14.5. Transport hazard IMDG Subrisk 6.1 EMS Number F-A, S-B 14.6. Special precautions for Special provisions 366 Limited Quantities 5 kg Inland waterways transport (ADN) 14.1. UN number 14.2. Packing group Ш 14.3. UN proper shipping MERCURY CONTAINED IN MANUFACTURED ARTICLES 14.4. Environmental hazard Not Applicable 14.5. Transport hazard 8 6.1 class(es) Classification code СТЗ 366 Special provisions 14.6. Special precautions for 5kg Equipment required PP, EP, TOX, A Fire cones number

Permite; Lojic +; GS-80, GS-80 Spherical; F400; Ultracaps +; Ultracaps S; SDI Admix; SDI Spherical and New Ultrafine- Capsules

Not Applicable

SECTION 15 REGULATORY INFORMATION

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

MERCURY (ELEMENTAL)(7439-97-6) IS FOUND ON THE FOLLOWING REGULATORY LISTS

EU REACH Regulation (EC) No 1907/2006 - Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles EU REACH Regulation (EC) No 1907/2006 - Annex XVII (Appendix 6) Toxic to reproduction: category 18 (Table 3.1)/category 2 (Table 3.2)

European Customs Inventory of Chemical Substances ECICS (English)

European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)

European Union (EU) Annex I to Directive 67/548/EEC on Classification and Labelling of Dangerous Substances - updated by ATP: 31

CAS number

European Union (EU) Annex I to Directive 67/548/EEC on Classification and Labelling of Dangerous Substances (updated by ATP: 31) - Reprotoxic Substances

European Union (EU) Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures - Annex VI

European Union (EU) Third List of Indicative Occupational Exposure Limit Values (IOELVs) (English)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

ECHA Dossier

UK Workplace Exposure Limits (WELs)

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable -: 67/548/EEC, 1999/45/EC, 98/24/EC, 92/85/EC, 94/33/EC, 91/689/EEC, 1999/13/EC, Commission Regulation (EU) 2015/830, Regulation (EC) No 1272/2008 and their amendments as well as the following British legislation: - The Control of Substances Hazardous to Health Regulations (COSHH) 2002 - COSHH Essentials - The Management of Health and Safety at Work Regulations 1999

Index No

15.2. Chemical safety assessment

For further information please look at the Chemical Safety Assessment and Exposure Scenarios prepared by your Supply Chain if available.

ECHA SUMMARY

Ingredient

| mercury (elemental) | 7439-97-6 | 080-001-00-0 | 01-2119548380-42-XXXX | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------------------------------------------|------------------------------------------------------------------------|--|--|
| Harmonisation (C&L Inventory) Hazard Class and Category Code(s) | | ode(s) | Pictograms Signal Word Code(s) | Hazard Statement Code(s) | | |
| 2 | | E 1, Aquatic Chronic 1, Met. Corr. 1, Acute Tox. 1, TOT RE 2, Skin Sens. 1, Muta. 2, Repr. 1A, STOT | GHS06, GHS09, GHS08, Dgr, GHS05 | H330, H360, H372, H290, H311, H250, H300, H317, H341, H371 | | |
| 1 | | x. 4, Skin Corr. 1B, Skin Sens. 1, Acute Tox. 2, B, Repr. 1B, STOT RE 1, Aquatic Acute 1, | GHS09, GHS06, GHS05, GHS08, GHS03, Dgr | H272, H301, H312, H314, H317, H330, H334, H340, H350, H360, H372 | | |
| 2 | | x. 4, Skin Corr. 1B, Skin Sens. 1, Acute Tox. 2, B, Repr. 1B, STOT RE 1, Aquatic Acute 1, | GHS09, GHS06, GHS05, GHS08, GHS03, Dgr | H272, H301, H312, H314, H317, H330, H334, H340, H350, H360, H372 | | |
| 1 | Ox. Sol. 2, Acute Tox. 4, Aquatic | Acute 1, Aquatic Chronic 1 | GHS07, GHS09, GHS03, Dgr | H272, H302 | | |
| 2 | Ox. Sol. 2, Acute Tox. 4, Aquatic | Acute 1, Aquatic Chronic 1 | GHS07, GHS09, GHS03, Dgr | H272, H302 | | |
| Harmonisation Code 1 = The m | ost prevalent classification. Harmonis | ation Code 2 = The most severe classification. | 19800 | | | |
| N-6 | | | | | | |
| National inventory | Status | | | | | |
| | Status Y | | | | | |
| Australia - AICS | | | | | | |
| Australia - AICS Canada - DSL | Y | | | | | |
| Australia - AICS Canada - DSL Canada - NDSL | Y Y | | | | | |
| Australia - AICS Canada - DSL Canada - NDSL China - IECSC Europe - EINEC / ELINCS / | Y Y N (mercury (elemental)) | | | | | |
| Australia - AICS Canada - DSL Canada - NDSL China - IECSC Europe - EINEC / ELINCS / NLP | Y Y N (mercury (elemental)) Y | | | | | |
| Australia - AICS Canada - DSL Canada - NDSL China - IECSC Europe - EINEC / ELINCS / NLP Japan - ENCS | Y Y N (mercury (elemental)) Y | | | | | |
| Australia - AICS Canada - DSL Canada - NDSL China - IECSC Europe - EINEC / ELINCS / NLP Japan - ENCS Korea - KECI | Y Y N (mercury (elemental)) Y N (mercury (elemental)) | | | | | |
| National Inventory Australia - AICS Canada - DSL Canada - NDSL China - IECSC Europe - EINEC / ELINCS / NLP Japan - ENCS Korea - KECI New Zealand - NZIoC Philippines - PICCS | Y Y N (mercury (elemental)) Y N (mercury (elemental)) | | | | | |

N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

SECTION 16 OTHER INFORMATION

Y = All ingredients are on the inventory

Full text Risk and Hazard codes

Legend:

| H250 | Catches fire spontaneously if exposed to air. | | | | | | | |
|------|-----------------------------------------------|--|--|--|--|--------|-------------|---|
| H272 | May intensify fire; oxidiser. | | | | | 5 | ethore etc. | |
| Н300 | Fatal if swallowed. | | | | | | | |
| H301 | Toxic if swallowed. | | | | | 1 41 4 | 0) (0) | - |
| H311 | Toxic in contact with skin. | | | | | | | |
| H312 | Harmful in contact with skin. | | | | | | | |
| H314 | Causes severe skin burns and eye damage. | | | | | 140 | | |
| | | | | | | | | |

Permite; Lojic +; GS-80, GS-80 Spherical; F400; Ultracaps +; Ultracaps S; SDI Admix; SDI Spherical and New Ultrafine- Capsules

| H317 | May cause an allergic skin reaction. | | | | | |
|-------|----------------------------------------------------------------------------|--|-------|--|------------|-------|
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. | | | | | |
| H340 | May cause genetic defects. | | | | | |
| H341 | Suspected of causing genetic defects. | | | | W (#265 ma | 12 12 |
| H350 | May cause cancer. | | | | | |
| H360D | May damage the unborn child. | | | | | |
| H371 | May cause damage to organs. | | | | | |
| H400 | Very toxic to aquatic life. | | | | | |
| R61 | May cause harm to the unborn child. | | | | | |
| | | | 20 10 | | | |

Other information

DSD / DPD label elements



Relevant risk statements are found in section 2.1

| to make the | | | |
|-------------|------------|--------|----|
| Indicat | tion(s) of | danger | Xi |

| SAFETY ADVICE | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| S01 | Keep locked up. |
| S02 | Keep out of reach of children. |
| S04 | Keep away from living quarters. |
| S13 | Keep away from food, drink and animal feeding stuffs. |
| S20 | When using do not eat or drink. |
| S21 | When using do not smoke. |
| S22 | Do not breathe dust. |
| S26 | In case of contact with eyes, rinse with plenty of water and contact Doctor or Poisons information Centre. |
| S281 | After contact with skin, wash immediately with detergent and plenty of water. |
| S29 | Do not empty into drains. |
| S35 | This material and its container must be disposed of in a safe way. |
| S36 | Wear suitable protective clothing. |
| S37 | Wear suitable gloves. |
| S38 | In case of insufficient ventilation, wear suitable respiratory equipment. |
| S39 | Wear eye/face protection. |
| S40 | To clean the floor and all objects contaminated by this material, use water and detergent. |
| S41 | In case of fire and/or explosion, DO NOT BREATHE FUMES. |
| S45 | In case of accident or if you feel unwell IMMEDIATELY contact Doctor or Poisons Information Centre (show label if possible). |
| S46 | If swallowed, seek medical advice immediately and show this container or label. |
| S52 | Not recommended for interior use on large surface areas. |
| S53 | Avoid exposure - obtain special instructions before use. |
| S56 | Dispose of this material and its container at hazardous or special waste collection point. |
| S57 | Use appropriate container to avoid environmental contamination. |
| \$61 | Avoid release to the environment. Refer to special instructions/Safety data sheets. |
| S63 | In case of accident by inhalation: remove casualty to fresh air and keep at rest. |
| \$64 | If swallowed, rinse mouth with water (only if the person is conscious). |
| The second secon | |

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.

For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

For detailed advice on Personal Protective Equipment, refer to the f EN 166 Personal eye-protection EN 340 Protective clothing EN 374 Protective gloves against chemicals and micro-organisms EN 13832 Footwear protecting against chemicals EN 133 Respiratory protective devices

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

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Permite; Lojic +; GS-80, GS-80 Spherical; F400; Ultracaps +; Ultracaps S; SDI Admix; SDI Spherical and New Ultrafine- Capsules

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 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.

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Date of preparation/revision: 23rd September 2015

Department issuing SDS: Research and Development

Contact: Technical Director

end of SDS