

SDI Limited

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

.1.Product Identifier	•		
Product name	Permite; Lojic +; GS-80, GS-80 Spherical; F400); Ultracaps +; Ultracaps S; SDI Admix; SDI Spherical	and New Ultrafine- Capsules
Synonyms	Not Available		
Proper shipping name	MERCURY CONTAINED IN MANUFACTURE	ED ARTICLES	
Other means of identification	Not Available		
.2. Relevant identified us	es of the substance or mixture and us	ses advised against	a film to the contract of the contract was
Relevant identified uses	For filling of cavitated teeth by dental profession		
Uses advised against	Not Applicable		
The second of th			
.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	COLON		
Address	SDI (North America) Inc.		
Telephone	1279 Hamilton Parkway IL Itasca 60143 United S	tates	
Fax	+1 630 361 9200 (Business hours) Not Available		
Website	Not Available		and the service seems across to assess to across
Email	USA.Canada@sdi.com.au		
The second secon	SO COMBOA BOOK AND THE STATE OF		The second of the second of the second
.4. Emergency telephone	number		
Association / Organisation	SDI Limited	Not Available	
Emergency telephone		Not Available	Not Available
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

Page 2 of 13

Issue Date: 12/01/2016 Print Date: 23/03/2016

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

R22 Harmful if swallowed.

DPD classification [1]

R26 Very toxic by inhalation.

R36 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 1272/2008 [CLP] [1] 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 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

Legend:

2.2. Label elements









SIGNAL WORD

DANGER

Hazard statement(s)

H290	May be comosive to metals.
H302	Harmful if swallowed.
H330	Fatal if inhaled.
H319	Causes serious eye irritation.
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)

Not Applicable

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 dothing/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.
P284	[In case of inadequate ventilation] wear respiratory protection.

Precautionary statement(s) Response

P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P313	IF exposed or concerned: Get medical advice/ attention.
P310	Immediately call a POISON CENTER/doctor/physician/first aider.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P390	Absorb spillage to prevent material damage.
P391	Collect spillage.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.
P330	Rinse mouth.
the second second	

Precautionary statement(s) Storage

	Store in a well-ventilated place. Keep container tightty 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*.

Print Date: 23/03/2016

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
A DEACH No

%[weight]

Classification according to directive 67/548/EEC (DSD)

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

capsules

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

40-50

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

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 even

- 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 area.
- Lay patient down. Keep warm and rested. General

 - Lay patient down. Are present.

 Prosthesses 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 gedema

 - Corrosive substances may cause lung damage (e.g. lung oederna, 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 becomethasone derivative may be considered. This must definitely be left to a doctor or person authorised by him/her.

(ICSC13719)

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.

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.
- If furnes 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
- Inhalation
- Transport to hospital, or doctor, without delay.
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 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

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

- Chronic effects range from proteinuna to nepriodic syndrome. Chronic presentation also involves definations, giriginals, storidades, defined and necropsychiatro syndrome.
 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

Sampling Time Preshift

Comments

35 ug/gm creatinine

End of shift at end of workweek

B

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.
- e eyes have been exposed, flush immediately with water and continue to imgate 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.
- 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 necess ary, 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.
- Dry chemical powder
- BCF (where regulations permit).
- Carbon dioxide

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 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

May emit corrosive furnes. May emit poisonous furnes.

Print Date: 23/03/2016

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

See section 8

6.2. Environmental precautions

See section 12

6.3. Methods and material for containment and cleaning up

Minor Spills

Major 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

- Collect remaining material in containers with covers for disposal.
- 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.

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
- 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
- Ose good coupleted in which presents.
 Observe manufacturer's storage and handling recommendations contained within this SDS.
 Almosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.

Fire and explosion

Safe handling

Store below 25 deg. C. Other information

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

7.2. Conditions for safe storage, including any incompatibilities

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)

PREDICTED NO EFFECT LEVEL (PNEC)

Not Available

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Source Ingredient Material name		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	

(IOELVs) (English)

EMERGENCY LIMITS

Ingredient mercury (elemental) Material name Mercury vapor

TEEL-1 0.15 mg/m3 TEEL-2

TEEL-3 Not Available

Ingredient mercury (elemental)

Original IDLH

10 mg/m3 / 28 mg/m3

Revised IDLH 2 mg/m3 / 10 mg/m3

MATERIAL DATA

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

Process controls which involve changing are way a job activity of process is owner to revoce 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 ob Supplied-air type respirator may be required in special circumstances. Correct fit is essential to ensure adequate protection. wear approved respirator. Correct fit is essential to obtain adequate protection. An approved self contained breathing apparatus (SCBA) may be required in some situations.

e 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.

Type of Contaminant: Air Speed: 0.25-0.5 m/s (50-100 ent, vapours, degreasing etc., evaporating from tank (in still air). 0.5-1 m/s (100-200

8.2.1. Appropriate engineering controls aerosols, furnes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid furnes, pickling (released at low velocity into zone of active generation)

1-2.5 m/s (200-500

direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)

f/min.)

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

2.5-10 m/s (500-2000 f/min.)

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

8.2.2. Personal protection











Eye and face protection

- Safety glasses with side shields
- mical goggles
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]

Skin protection Hands/feet protection See Hand protection below

Wear impervious gloves. **Body protection**

See Other protection below

- Overalls
 - PVC Apron.

 - PVC protective suit may be required if exposure severe. sh unit

Other protection

Ensure there is ready access to a safety shower.

Thermal hazards Not Available Page 7 of 13

Issue Date: 12/01/2016 Print Date: 23/03/2016

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 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	(#c)	HG-2 P2	HG-PAPR-2 P2 ^

^ - Full-face

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

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	(Mercury) with no odour, insoluble in water.	artments of a plastic capsule. Grey fine metallic powder (Silv	not alloy, and sever-write nearly liquid metal
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
Fiash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
opper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Applicable
ower 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								- 11		
	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	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	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

Inhalo

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 asphyoiant. 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, furnes), 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.

amounts absorbed from the lungs may prove fatal.

Limited evidence or practical experience suggests that the material may produce initation of the respiratory system, in a significant number of individuals,

Print Date: 23/03/2016

following inhalation. In contrast to most organs, the lung is able to respond to a chemical insult by first removing or neutralising the initiant 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

to the instantion of the instantion.

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 haemormagic 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 ciated 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 almost immediately in the mouth, throat and oesophagus.

Skin Contact

Eye

Chronic

Ingestion

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 hours, such inflammation being present twenty-four hours or more after the end of the exposure period. Skin inflation may also be present after prolonged or repeated exposure; this may result in a form of contact dermatitis (nonallergic). The dermatitis is often characterised by skin redness (erythema) and swelling (oedema) which may progress to blistering (vesiculation), scaling and thickening of the epidermis. At the microscopic level there may be intercellular oedema of the spongy layer of ma of the epide the skin (spongiosis) and intracellular oed

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.

Imitation 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 windburn) of the conjunctiva (conjunctivitis);

mporary 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.

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

mercury (elemental)

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

(Source: RTECS) Nil reported

Legend:

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 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 interval of the concentration of and duration of exposure to the concentration of exposure to the concentration of the concentration of the concentration of exposure to the concentration of the concentration of exposure to the concentra initiating substance. Industrial bronchitis, 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 sensitisation

Mutagenicity

Carcinogenicity Reproductivity

STOT - Single Exposure

STOT - Repeated Exposure

Aspiration Hazard

Legend:

★ - 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

Issue Date: 12/01/2016 Print Date: 23/03/2016

Permite; Lojic +; GS-80, GS-80 Spherical; F400; Ultracaps +; Ultracaps S; SDI Admix; SDI

Spherical and New Ultrafine- Capsules

Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

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:	Extracted from 1. If Aquatic Toxicity Da	UCLID Toxicity Data 2. Europe ECH ata (Estimated) 4. US EPA, Ecotox d	A Registered Substances - Ecotoxicological Ir atabase - Aquatic Toxicity Data 5. ECETOC A	nformation - Aquatic Toxicity 3	EPIWIN Suite V3.12 -

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

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. Bioaccumulative potential

Bioaccumulation

No Data available for all ingredients

12.4. Mobility in soil

Ingredient

No Data available for all ingredients

12.5.Results of PBT and vPvB assessment

	P	В	Т
Relevant available data	Not Available	Not Available	Not Available
PBT Criteria fulfilled?	Not Available	Not Available	Not Available

12.6. Other adverse effects

SECTION 13 DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Consult State Land Waste Management Authority for disposal. Recycle wherever possible.

Product / Packaging dispos

- ▶ Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility 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 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 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 Not Available

SECTION 14 TRANSPORT INFORMATION

Labels Required



Marine Pollutant



Land transport (ADR)

Page 10 of 13

Issue Date: 12/01/2016 Print Date: 23/03/2016

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14.1.UN number 3506 14.2.Packing group Ш 14.3.UN proper shipping MERCURY CONTAINED IN MANUFACTURED ARTICLES 14.4.Environmental hazard Not Applicable Class 14.5. Transport hazard class(es) Subrisk Hazard identification (Kemler) Not Applicable Classification code СТЗ 14.6. Special precautions for Hazard Label 8+6.1 Special provisions 366 Limited quantity 5 kg Air transport (ICAO-IATA / DGR) 14.1. UN number 3506 14.2. Packing group Ш 14.3. UN proper shipping Mercury contained in manufactured articles 14.4. Environmental hazard ICAO/IATA Class 14.5. Transport hazard ICAO / IATA Subrisk 6.1 class(es) ERG Code 8L Special provisions A48 A69 A191 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 Instructions Forbidden Passenger and Cargo Limited Maximum Qty / Pack Forbidden Sea transport (IMDG-Code / GGVSee) 14.1. UN number 14.2. Packing group 101 14.3. UN proper shipping MERCURY CONTAINED IN MANUFACTURED ARTICLES 14.4. Environmental hazard Marine Pollutant IMDG Class 14.5. Transport hazard IMDG Subrisk 6.1 F-A, S-B 14.6. Special precautions for Special provisions 366 5 kg Inland waterways transport (ADN) 14.1. UN number 3506 14.2. Packing group Ш 14.3. UN proper shipping MERCURY CONTAINED IN MANUFACTURED ARTICLES Not Applicable 14.4. Environmental hazard 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

Issue Date: 12/01/2016 Print Date: 23/03/2016

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 1B (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

European Union (EU) Annex I to Directive 67/548/EEC on Classification and Labelling of nces (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

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

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	CAS number	Index No	ECHA Dossier		
mercury (elemental)	7439-97-6	080-001-00-0	01-2119548380-42-XXXX	The second secon	
Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)		Pictograms Signal Word Code(s)	Hazard Statement Code(s)	
2		T RE 1, Aquatic Chronic 1, Met. Corr. 1, Acute Tox. 1, 3, STOT 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		e Tox. 4, Skin Corr. 1B, Skin Sens. 1, Acute Tox. 2, rc. 1B, 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		e Tox. 4, Skin Corr. 1B, Skin Sens. 1, Acute Tox. 2, rc. 1B, 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, Aqua	atic 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. Harmo	onisation Code 2 = The most severe classification.	- 0.		
National Inventory	Status			at the street of	
Australia - AICS	Y			a security (mineral condition) deplies a constraint and	
Canada - DSL	Υ			TOTAL - 100	
Canada - NDSL	N (mercury (elemental))			to the control of the second state of the	
China - IECSC	Υ				
Europe - EINEC / ELINCS / NLP	Y		11 20 70 10 100 10	M. Milliam P. C. Carrier and M. Milliam P. Carrier and Co.	
Japan - ENCS	N (mercury (elemental))				
Korea - KECI	Υ			e celler made with manager to	
New Zealand - NZIoC	Y				
Philippines - PICCS	Υ				
USA - TSCA	Υ				
Legend:	Y = All ingredients are on the N = Not determined or one or	inventory more ingredients are not on the inventory and are not e	vemnt from listing/see specific in	resolute in broakets)	

SECTION 16 OTHER INFORMATION

Full text Risk and Hazard codes

	H250	Catches fire spontaneously if exposed to air.			
	H272	May intensify fire; oxidiser.			
The second secon	H300	Fatal if swallowed.			
*.400 Farmers and a second re-	H301	Toxic if swallowed.			
* *	H311	Toxic in contact with skin.			
	H312	Harmful in contact with skin.			
	H314	Causes severe skin burns and eye damage.			

Page 12 of 13

Issue Date: 12/01/2016 Print Date: 23/03/2016

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

	8.6
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.
H350	Mey 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.

Other information

DSD / DPD label elements



Relevant risk statements are found in section 2.1

The state of the s	
Indication(s) of danger	Xi

malcation(s) of danger	I ^'	
SAFETY ADVICE		
S01	Keep locked up.	
S02	Keep out of reach of children.	
504	Keep away from living quarters.	
S13	Keep away from food, drink and animal feeding stuffs.	
\$20	When using do not eat or drink.	
\$21	When using do not smoke.	
S22	Do not breathe dust.	
\$26	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 dothing.	
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.	
S64	If swallowed, rinse mouth with water (only if the person is conscious).	
the second contract of the second contract of		

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 fen 166 Personal eye-protection EN 340 Protective clothing EN 374 Protective gloves against chemicals and micro-organisms EN 13832 Foothwear protecting against chemicals EN 133 Respiratory protecting against chemicals

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

Version No: 5.1.1.1

Page 13 of 13

Issue Date: 12/01/2016

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

Print Date: 23/03/2016

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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Date of preparation/revision: 23rd September 2015

Department issuing SDS: Research and Development

Contact: Technical Director