

10 33-1D Mercury (10µg/mL in 2% HNO3)

High-Purity Standards

Catalogue number: 10 33-1D

Version No: 1.2 Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

SECTION 1 IDENTIFICATION

Product Identifier

Product name	10 33-1D Mercury (10µg/mL in 2% HNO3)
Synonyms	Not Available
Proper shipping name	Corrosive liquid, acidic, inorganic, n.o.s. (contains nitric acid)
Other means of identification	10 33-1D

Recommended use of the chemical and restrictions on use

Relevant identified uses Use according to manufacturer's directions.

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Registered company name	High-Purity Standards
Address	PO Box 41727 SC 29423 United States
Telephone	843-767-7900
Fax	843-767-7906
Website	highpuritystandards.com
Email	Not Available

Emergency phone number

Association / Organisation	INFOTRAC
Emergency telephone numbers	1-800-535-5053
Other emergency telephone numbers	1-352-323-3500

SECTION 2 HAZARD(S) IDENTIFICATION

Classification	Metal Corrosion Category 1, Skin Corrosion/Irritation Category 1A, Serious Eye Damage Category 1					
abel elements						
Hazard pictogram(s)						
SIGNAL WORD	DANGER					
lazard statement(s)						
H290	May be corrosive to metals.					
H314	Causes severe skin burns and eye damage.					

Hazard(s) not otherwise specified

Not Applicable

Chemwatch Hazard Alert Code: 3

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S.GHS.USA.EN

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P260	Do not breathe dust/fume/gas/mist/vapours/spray.		
Precautionary statement(s)) Response		
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.		
Precautionary statement(s)) Storage		
P405	Store locked up.		
Precautionary statement(s) Disposal			
P501	Dispose of contents/container in accordance with local regulations.		

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
7697-37-2	2	nitric acid
7732-18-5	balance	water
587-85-9	0.001	diphenylmercury

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4 FIRST-AID MEASURES

Description of first aid measures

Eye Contact	If this product comes in contact with the eyes: Immediately hold eyelids apart and flush the eye continuously with running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Transport to hospital or doctor without delay. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	 If skin or hair contact occurs: Immediately flush body and clothes with large amounts of water, using safety shower if available. Quickly remove all contaminated clothing, including footwear. Wash skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre. Transport to hospital, or doctor.
Inhalation	 If fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor, without delay. Inhalation of vapours or aerosols (mists, fumes) may cause lung oedema. Corrosive substances may cause lung damage (e.g. lung oedema, fluid in the lungs). As this reaction may be delayed up to 24 hours after exposure, affected individuals need complete rest (preferably in semi-recumbent posture) and must be kept under medical observation, the administration of a spray containing a dexamethasone derivative or beclomethasone derivative may be considered. This must definitely be left to a doctor or person authorised by him/her. (ICSC13719)
Ingestion	 For advice, contact a Poisons Information Centre or a doctor at once. Urgent hospital treatment is likely to be needed. If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Transport to hospital or doctor without delay.

Most important symptoms and effects, both acute and delayed

See Section 11

Indication of any immediate medical attention and special treatment needed

For acute and short term repeated exposures to aryl and alkylmethoxy compounds of mercury: Absorption proceeds more rapidly than its inorganic counterpart but once inside the body biotransformation releases inorganic mercury. [Ellenhorn and Barceloux: Medical Toxicology]

- 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.

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+ 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 - BEL

These represent the determinants observed in specimens from a healthy worker exposed at the Exposure Standard (ES or TLV).					
Determinant	Index	Sampling Time	Comments		
1. Total inorganic mercury in urine	35 ug/gm creatinine	Preshift	В		
2. Total inorganic mercury in blood	15 ug/L	End of shift at end of workweek	В		

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

For acute or short term repeated exposures to strong acids

Airway problems may arise from laryngeal edema and inhalation exposure. Treat with 100% oxygen initially,

Respiratory distress may require cricothyroidotomy if endotracheal intubation is contraindicated by excessive swelling

Intravenous lines should be established immediately in all cases where there is evidence of circulatory compromise ÷

> Strong acids produce a coagulation necrosis characterised by formation of a coagulum (eschar) as a result of the dessicating action of the acid on proteins in specific tissues.

INGESTION:

Immediate dilution (milk or water) within 30 minutes post ingestion is recommended.

DO NOT attempt to neutralise the acid since exothermic reaction may extend the corrosive injury.

- Be careful to avoid further vomit since re-exposure of the mucosa to the acid is harmful. Limit fluids to one or two glasses in an adult.
- Charcoal has no place in acid management. ٠

Some authors suggest the use of lavage within 1 hour of ingestion.

SKIN:

Skin lesions require copious saline irrigation. Treat chemical burns as thermal burns with non-adherent gauze and wrapping

Deep second-degree burns may benefit from topical silver sulfadiazine.

EYE:

- ▶ Eye injuries require retraction of the eyelids to ensure thorough irrigation of the conjuctival cul-de-sacs. Irrigation should last at least 20-30 minutes. DO NOT use neutralising agents or any other additives. Several litres of saline are required.
- > Cycloplegic drops, (1% cyclopentolate for short-term use or 5% homatropine for longer term use) antibiotic drops, vasoconstrictive agents or artificial tears may be indicated dependent on the severity of the injury.
- Steroid eye drops should only be administered with the approval of a consulting ophthalmologist).

[Ellenhorn and Barceloux: Medical Toxicology]

SECTION 5 FIRE-FIGHTING MEASURES

Extinguishing media

- There is no restriction on the type of extinguisher which may be used
- Use extinguishing media suitable for surrounding area.

Special hazards arising from the substrate or mixture

Fire Incompatibility None known.

Special protective equipment and precautions for fire-fighters

Fire Fighting

Fire/Explosion Hazard Non combustible

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	 Drains for storage or use areas should have retention basins for pH adjustments and dilution of spills before discharge or disposal of material. Clean up all spills immediately.
Major Spills	#

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

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

Safe handling	Avoid all personal contact, including inhalation.			
Other information	Store in original containers.			

Conditions for safe storage, including any incompatibilities

	 DO NOT use aluminium or galvanised containers Check regularly for spills and leaks
Suitable container	 Lined metal can, lined metal pail/ can. For low viscosity materials
	 Drums and jerricans must be of the non-removable head type.

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Storage incompatibility

Inorganic acids are generally soluble in water with the release of hydrogen ions.
 WARNING: Avoid or control reaction with peroxides.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
US NIOSH Recommended Exposure Limits (RELs)	nitric acid	Aqua fortis, Engravers acid, Hydrogen nitrate, Red fuming nitric acid (RFNA), White fuming nitric acid (WFNA)	5 mg/m3 / 2 ppm	10 mg/m3 / 4 ppm	Not Available	Not Available
US ACGIH Threshold Limit Values (TLV)	nitric acid	Nitric acid	2 ppm	4 ppm	Not Available	TLV® Basis: URT & eye irr; dental erosion
US OSHA Permissible Exposure Levels (PELs) - Table Z1	nitric acid	Nitric acid	5 mg/m3 / 2 ppm	Not Available	Not Available	Not Available

EMERGENCY LIMITS

Material name	TEEL-1	TEEL-2	TEEL-3	
Nitric acid	Not Available	Not Available	Not Available	
Diphenyl mercury	0.53 mg/m3	8.3 mg/m3	50 mg/m3	
Original IDLH		Revised IDLH		
100 ppm		25 ppm		
Not Available		Not Available		
28 mg/m3		10 mg/m3		
	Nitric acid Diphenyl mercury Original IDLH 100 ppm Not Available	Nitric acid Not Available Diphenyl mercury 0.53 mg/m3 Original IDLH 100 ppm	Nitric acid Not Available Not Available Diphenyl mercury 0.53 mg/m3 8.3 mg/m3 Original IDLH Revised IDLH 100 ppm 25 ppm Not Available Not Available	

Exposure controls

Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard.
Personal protection	
Eye and face protection	Safety glasses with unperforated side shields may be used where continuous eye protection is desirable, as in laboratories; spectacles are not sufficient where complete eye protection is needed such as when handling bulk-quantities, where there is a danger of splashing, or if the material may be under pressure.
Skin protection	See Hand protection below
Hands/feet protection	 When handling corrosive liquids, wear trousers or overalls outside of boots, to avoid spills entering boots. WARNING: Do NOT use latex or PVC gloves In 1997, a researcher (Dr. Karen E. Wetterhahn) died from organic mercury poisoning, resulting from a single exposure to dimethylmercury almost a year before.
Body protection	See Other protection below
Other protection	► Overalls.
Thermal hazards	Not Available

Respiratory protection

Type A Filter of sufficient capacity.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	colorless		
Physical state	Liquid	Relative density (Water = 1)	Not Available
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	<2	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	Not Available	Taste	Not Available

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

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	Contact with alkaline material liberates heat
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

Inhaled	The material can cause respiratory irritation in some persons. Corrosive acids can cause irritation of the respiratory tract, with coughing, choking and mucous membrane damage. The material has NOT been classified by EC Directives or other classification systems as "harmful by inhalation".
Ingestion	Ingestion of acidic corrosives may produce burns around and in the mouth, the throat and oesophagus. The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion".
Skin Contact	Skin contact with acidic corrosives may result in pain and burns; these may be deep with distinct edges and may heal slowly with the formation of scar tissue. Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects.
Eye	If applied to the eyes, this material causes severe eye damage. Direct eye contact with acid corrosives may produce pain, tears, sensitivity to light and burns.
Chronic	Repeated or prolonged exposure to acids may result in the erosion of teeth, swelling and/or ulceration of mouth lining. Long-term exposure to respiratory irritants may result in airways disease, involving difficulty breathing and related whole-body problems. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

10 33-1D Mercury (10µg/mL	TOXICITY	IRRITATION		
in 2% HNO3)	Not Available	Not Available		
	ΤΟΧΙΟΙΤΥ		IRRITATION	
nitric acid			-	
	Inhalation (rat) LC50: 625 ppm/1h*t ^[2]		Not Available	
water	TOXICITY	IRRITATION		
water	Not Available	Not Available		
	ΤΟΧΙΟΙΤΥ	IRRITATION		
diphenylmercury	Not Available Not Available			
	Not Available			
Legend:	 Value obtained from Europe ECHA Registered Substances - Acute toxicity 2 extracted from RTECS - Register of Toxic Effect of chemical Substances 	* Value obtained from manufacture	er's SDS. Unless otherwise specified data	
	Asthma-like symptoms may continue for months or even years after exposure to For acid mists, aerosols, vapours	the material ends.		
	Test results suggest that eukaryotic cells are susceptible to genetic damage wh	en the pH falls to about 6.5.		
NITRIC ACID	The material may produce severe irritation to the eye causing pronounced inflan			
	The material may produce respiratory tract irritation, and result in damage to the			
	The material may cause severe skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.		kin redness, swelling, the production of	
	Oral (?) LD50: 50-500 mg/kg * [Various Manufacturers]			
DIPHENYLMERCURY	Altered sleep time, ataxia recorded.			
WATER & DIPHENYLMERCURY	No significant acute toxicological data identified in literature search.			

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Acute Toxicity	\otimes	Carcinogenicity	\otimes
Skin Irritation/Corrosion	×	Reproductivity	0
Serious Eye Damage/Irritation	*	STOT - Single Exposure	0
Respiratory or Skin sensitisation	\otimes	STOT - Repeated Exposure	\otimes
Mutagenicity	\otimes	Aspiration Hazard	\otimes
		Legend: 🗙	 Data available but does not fill the criteria for classification

Data available to make classification

🚫 – Data Not Available to make classification

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

in 2% HNO3)			TEST DURATION (HR)		SPECIE	29	VALUE		SOURCE
	Not Available		Not Available		Not Ava	ailable	Not Ava	ailable	Not Available
	ENDPOINT		TEST DURATION (HR)			SPECIES		VALUE	SOURCE
nitric acid	NOEC		16			Crustacea		107mg/L	4
	ENDPOINT	TES	T DURATION (HR)	SPECIES				VALUE	SOURCE
water	LC50	96		Fish				897.520mg/L	3
	EC50	96		Algae or ot	her aqu	uatic plants		8768.874mg/L	3
	ENDPOINT	TES	T DURATION (HR)	SPECIES				VALUE	SOURCE
diphenylmercury	LC50	96		Fish				10.143mg/L	3
	EC50	96		Algae or o	other ad	quatic plants		20.318mg/L	3
Legend:	Extracted from 1. IL	ICLID To:	xicity Data 2. Europe ECHA Regis	tered Substan	ces - Ed	cotoxicological li	nformation	- Aquatic Toxicity 3	8. EPIWIN Suite V3.1

Ecotoxicity:

The tolerance of water organisms towards pH margin and variation is diverse.

Mercury may occur in the environment as free mercury, Hg(0), mercury ions in salts and complexes, Hg+ and (Hg2)2+ and as organic mercury compounds.

Prevent, by any means available, spillage from entering drains or water courses.

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
water	LOW	LOW
diphenylmercury	HIGH	HIGH

Bioaccumulative potential

Ingredient	Bioaccumulation
water	LOW (LogKOW = -1.38)
diphenylmercury	LOW (LogKOW = 3.057)

Mobility in soil

Ingredient	Mobility
water	LOW (KOC = 14.3)
diphenylmercury	LOW (KOC = 11290)

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product / Packaging disposal

Recycle wherever possible.

SECTION 14 TRANSPORT INFORMATION

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NO

Marine Pollutant

Land transport (DOT)

UN number	3264
UN proper shipping name	Corrosive liquid, acidic, inorganic, n.o.s. (contains nitric acid)
Transport hazard class(es)	Class8SubriskNot Applicable
Packing group	II Contraction of the second
Environmental hazard	Not Applicable
Special precautions for user	Hazard Label8Special provisions386, B2, IB2, T11, TP2, TP27

Air transport (ICAO-IATA / DGR)

UN number	3264			
UN proper shipping name	Corrosive liquid, acidic, inorganic, n.o.s. * (contains nitric acid)			
Transport hazard class(es)	ICAO/IATA Class ICAO / IATA Subrisk ERG Code	8 Not Applicable 8L		
Packing group	П			
Environmental hazard	Not Applicable			
Special precautions for user	Passenger and Cargo Passenger and Cargo		A3A803 855 30 L 851 1 L Y840 0.5 L	

Sea transport (IMDG-Code / GGVSee)

	-
UN number	3264
UN proper shipping name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (contains nitric acid)
Transport hazard class(es)	IMDG Class 8 IMDG Subrisk Not Applicable
Packing group	II
Environmental hazard	Not Applicable
Special precautions for user	EMS NumberF-A, S-BSpecial provisions274Limited Quantities1 L

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

Source	Product name	Pollution Category	Ship Type
IMO MARPOL (Annex II) - List of Noxious Liquid Substances Carried in Bulk	Nitric acid (70% and over) Nitric acid (less than 70%)	Y; Y	2 2

SECTION 15 REGULATORY INFORMATION

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NITRIC ACID(7697-37-2) IS FOUND ON THE FOLLOWING REGULATORY	LISTS
International Air Transport Association (IATA) Dangerous Goods Regulations -	Prohibited List US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants
Passenger and Cargo Aircraft	US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air
US - Alaska Limits for Air Contaminants	Contaminants
US - California OEHHA/ARB - Acute Reference Exposure Levels and Target Or	gans (RELs) US - Washington Permissible exposure limits of air contaminants
US - California Permissible Exposure Limits for Chemical Contaminants	US - Washington Toxic air pollutants and their ASIL, SQER and de minimis emission values
US - Hawaii Air Contaminant Limits	US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants
US - Idaho - Limits for Air Contaminants	US ACGIH Threshold Limit Values (TLV)
US - Massachusetts - Right To Know Listed Chemicals	US CWA (Clean Water Act) - List of Hazardous Substances
US - Michigan Exposure Limits for Air Contaminants	US EPCRA Section 313 Chemical List
US - Minnesota Permissible Exposure Limits (PELs)	US NIOSH Recommended Exposure Limits (RELs)
US - Oregon Permissible Exposure Limits (Z-1)	US OSHA Permissible Exposure Levels (PELs) - Table Z1
US - Pennsylvania - Hazardous Substance List	US SARA Section 302 Extremely Hazardous Substances
US - Rhode Island Hazardous Substance List	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory
US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants	
WATER(7732-18-5) IS FOUND ON THE FOLLOWING REGULATORY LIST	S
US - Pennsylvania - Hazardous Substance List	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

DIPHENYLMERCURY(587-85-9) IS FOUND ON THE FOLLOWING REGULATORY LISTS

US - California Permissible Exposure Limits for Chemical Contaminants

- US California Proposition 65 Reproductive Toxicity
- US Oregon Permissible Exposure Limits (Z-1) US ACGIH Threshold Limit Values (TLV)

US Clean Air Act - Hazardous Air Pollutants

Federal Regulations

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SECTION 311/312 HAZARD CATEGORIES

Immediate (acute) health hazard	Yes
Delayed (chronic) health hazard	No
Fire hazard	No
Pressure hazard	No
Reactivity hazard	No

US CWA (Clean Water Act) - Priority Pollutants

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US CWA (Clean Water Act) - Toxic Pollutants

US EPCRA Section 313 Chemical List

US. EPA CERCLA HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES (40 CFR 302.4)		
Name	Reportable Quantity in Pounds (Ib)	Reportable Quantity in kg
Nitric acid	1000	454

State Regulations

US. CALIFORNIA PROPOSITION 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm

US - CALIFORNIA PREPOSITION 65 - CARCINOGENS & REPRODUCTIVE TOXICITY (CRT): LISTED SUBSTANCE

Mercury and mercury compounds Listed

National Inventory	Status
Australia - AICS	N (diphenylmercury)
Canada - DSL	N (diphenylmercury)
Canada - NDSL	N (water; nitric acid)
China - IECSC	N (diphenylmercury)
Europe - EINEC / ELINCS / NLP	Y
Japan - ENCS	N (diphenylmercury; nitric acid)
Korea - KECI	N (diphenylmercury)
New Zealand - NZIoC	Υ
Philippines - PICCS	N (diphenylmercury)
USA - TSCA	Y
Legend:	Y = All ingredients are on the inventory 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

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment.

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Definitions and abbreviations

PC – TWA: Permissible Concentration-Time Weighted Average PC – STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancer ACGIH: American Conference of Governmental Industrial Hygienists STEL: Short Term Exposure Limit TEEL: Temporary Emergency Exposure Limit. IDLH: Immediately Dangerous to Life or Health Concentrations OSF: Odour Safety Factor NOAEL: No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value LOD: Limit of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors

BEI: Biological Exposure Index This document is copyright.

