

Apollo Scientific

Part Number: **PC3792** Version No: **1.1** Safety Data Sheet (Conforms to Annex II of REACH (1907/2006) - Regulation 2020/878) Chemwatch Hazard Alert Code: 4

Issue Date: 16/05/2022 Print Date: 03/08/2023 S.REACH.GBR.EN

SECTION 1 Identification of the substance / mixture and of the company / undertaking

1.1. Product Identifier

Product name	cis-1,2-Difluoroethylene (FC-1132)	
Chemical Name	IS-1,2-DIFLUOROETHYLENE (FC-1132) 97%	
Synonyms	Not Available	
Proper shipping name	LIQUEFIED GAS, FLAMMABLE, N.O.S.	
Chemical formula	C2-H2-F2	
Other means of identification	Not Available	
CAS number	1630-77-9*	
EC number	216-628-5	

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

Relevant identified uses	Not Available	
Uses advised against	inst No specific uses advised against are identified.	

1.3. Details of the manufacturer or supplier of the safety data sheet

Registered company name	Apollo Scientific	
Address	Whitefield Road, Bredbury SK62QR United Kingdom	
Telephone	01614060505	
Fax	0161 406 0506	
Website	http://www.apolloscientific.co.uk/	
Email	sales@apolloscientific.co.uk	

1.4. Emergency telephone number

Association / Organisation	Not Available	
Emergency telephone numbers	Not Available	
Other emergency telephone numbers	Not Available	

SECTION 2 Hazards identification

2.1. Classification of the substance or mixture

Classification according to	
regulation (EC) No	H221 - Flammable Gases Category 2, H280 - Gases Under Pressure

1272/2008 [CLP] and amendments ^[1]	
Legend:	1. Classified by Chemwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI
2.2. Label elements	
Hazard pictogram(s)	
Signal word	Warning
lazard statement(s)	
H221	Flammable gas.
H280	Contains gas under pressure; may explode if heated.
Supplementary statement	:(s)
EUH044	Risk of explosion if heated under confinement.
Precautionary statement(s) Prevention
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Precautionary statement(s) Response
Precautionary statement(P377	s) Response Leaking gas fire: Do not extinguish, unless leak can be stopped safely.

P410+P403 Protect from sunlight. Store in a well-ventilated place.

Precautionary statement(s) Disposal

Not Applicable

2.3. Other hazards

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

1. CAS No 2.EC No 3.Index No 4.REACH No	%[weight]	Name	Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	SCL / M-Factor	Nanoform Particle Characteristics
Not Available	100	cis-1,2- Difluoroethylene (FC-1132)	Not Applicable	Not Applicable	Not Available

Legend: 1. Classified by Chemwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 3. Classification drawn from C&L; * EU IOELVs available; [e] Substance identified as having endocrine disrupting properties

3.2.Mixtures

See 'Information on ingredients' in section 3.1

SECTION 4 First aid measures

4.1. Description of first aid measures

Eye Contact

If this product comes in contact with eyes: • Wash out immediately with water.

	 If irritation continues, seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	 If skin or hair contact occurs: Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Inhalation	 If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.
Ingestion	 Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

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

Treat symptomatically.

SECTION 5 Firefighting measures

5.1. Extinguishing media

For **SMALL FIRES**: Dry chemical, CO2, water spray or foam. For **LARGE FIRES**: Water-spray, fog or foam.

5.2. Special hazards arising from the substrate or mixture

 Fire Incompatibility
 None known.

5.3. Advice for firefighters

Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course. Fight fire from a safe distance, with adequate cover. If safe, switch off electrical equipment until vapour fire hazard removed. Use water delivered as a fine spray to control fire and cool adjacent area. Avoid spraying water onto liquid pools. 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.
Fire/Explosion Hazard	 Flammable solid which burns and propagates flame easily, even when partly wetted with water. Any source of ignition, i.e. friction, heat, sparks or flame, may cause fire or explosion. May burn fiercely May form explosive mixtures with air. May REIGNITE after fire is extinguished. Containers may explode on heating. Solids may melt and flow when heated or involved in a fire. Runoff may pollute waterways. Avoid generating dust, particularly clouds of dust in a confined or unventilated space as dusts may form an explosive mixture with air. Dust clouds generated by the fine grinding of the solid are a particular hazard; accumulations of fine dust may burn rapidly and fiercely if ignited. Dry dust can be charged electrostatically by turbulence, pneumatic transport, pouring, in exhaust ducts and during transport, thereby providing a source of ignition. Decomposition products may be irritating, poisonous or corrosive.

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

See section 8

6.2. Environmental precautions

See section 12

Minor Spills	 Remove all ignition sources. DO NOT touch or walk through spilled material. Clean up all spills immediately. Avoid contact with skin and eyes. Prevent dust cloud. With clean shovel (preferably non-sparking) place material into clean, dry container and cover loosely. Move containers from spill area.
	Control personal contact with the substance, by using protective equipment.
Major Spills	 Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. DO NOT touch or walk through spilled material. Control personal contact with the substance, by using protective equipment. Prevent, by any means available, spillage from entering drains or water course. No smoking, naked lights or ignition sources. Increase ventilation. Stop leak if safe to do so. Contain or cover with sand, earth or vermiculite. Use only spark-free shovels and explosion proof equipment. Collect recoverable product into labelled containers for recycling. Collect solid residues and seal in labelled drums for disposal. Wash area with water and dike for later disposal; prevent runoff into drains. After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using. If contamination of drains or waterways occurs, advise emergency services.

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

Safe handling	 Contains low boiling substance: Storage in sealed containers may result in pressure buildup causing violent rupture of containers not rated appropriately. Check for bulging containers. Vent periodically Always release caps or seals slowly to ensure slow dissipation of vapours 			
Fire and explosion protection	See section 5			
Other information	 FOR MINOR QUANTITIES: Store in an indoor fireproof cabinet or in a room of noncombustible construction. Provide adequate portable fire-extinguishers in or near the storage area. FOR PACKAGE STORAGE: Store in original containers in approved flame-proof area. No smoking, naked lights, heat or ignition sources. DO NOT store in pits, depressions, basements or areas where vapours may be trapped. Keep containers securely sealed. Store away from incompatible materials in a cool, dry, well ventilated area. Protect containers against physical damage and check regularly for leaks. Protect containers from exposure to weather and from direct sunlight unless: (a) the packages are of metal or plastic construction; (b) the packages are securely closed are not opened for any purpose while in the area where they are stored and (c) adequate precautions are taken to ensure that rain water, which might become contaminated by the dangerous goods, is collected and disposed of safely. Ensure proper stock-control measures are maintained to prevent prolonged storage of dangerous goods. Observe manufacturer's storage and handling recommendations contained within this SDS. 			

7.2. Conditions for safe storage, including any incompatibilities

	For low viscosity materials and solids:
	Drums and jerricans must be of the non-removable head type.
Where a can is to be used as an inner package, the can must have a screwed enclosure.	
For materials with a viscosity of at least 2680 cSt. (23 deg. C):	
	Removable head packaging and
Suitable container	cans with friction closures may be used.
	-
	Where combination packages are used, there must be sufficient inert absorbent material to absorb completely any leakage that
	may occur, unless the outer packaging is a close fitting moulded plastic box and the substances are not incompatible with the
	plastic.
	All combination packages for Packing group I and II must contain cushioning material.
	· ·

Storage incompatibility	None known
Hazard categories in accordance with Regulation (EC) No 1272/2008	P2: Flammable Gases
Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of	P2 Lower- / Upper-tier requirements: 10 / 50

7.3. Specific end use(s)

See section 1.2

SECTION 8 Exposure controls / personal protection

8.1. Control parameters

Ingredient	DNELs Exposure Pattern Worker	PNECs Compartment
Not Available	Not Available	Not Available

* Values for General Population

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Not Available						

Not Applicable

Emergency Limits

Ingredient	TEEL-1	TEEL-2		TEEL-3
cis-1,2-Difluoroethylene (FC-1132)	Not Available	Not Available		Not Available
Ingredient	Original IDLH		Revised IDLH	
cis-1,2-Difluoroethylene (FC-1132)	Not Available		Not Available	

8.2. Exposure controls

8.2.1. Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure. General exhaust is adequate under normal operating conditions. If risk of overexposure exists, wear SAA approved respirator. Correct fit is essential to obtain adequate protection. Provide adequate ventilation in warehouse or closed storage areas. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" fresh circulating air required to effectively remove the contaminant.			
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	contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the fresh circulating air required to effectively remove the contaminant. Type of Contaminant:	Air Speed: 0.25-0.5 m/s		

	grinding, abrasive blasting, tumbling, high speed wheel ge velocity into zone of very high rapid air motion).	nerated dusts (released at high initial	2.5-10 m/s (500-2000 f/min.)
	Within each range the appropriate value depends on:		
	Lower end of the range	Upper end of the range	
	1: Room air currents minimal or favourable to capture	1: Disturbing room air currents	
	2: Contaminants of low toxicity or of nuisance value only	2: Contaminants of high toxicity	
	3: Intermittent, low production.		
	4: Large hood or large air mass in motion	4: Small hood - local control only	
	Simple theory shows that air velocity falls rapidly with distan generally decreases with the square of distance from the ex extraction point should be adjusted, accordingly, after refere extraction fan, for example, should be a minimum of 1-2 m/s meters distant from the extraction point. Other mechanical of apparatus, make it essential that theoretical air velocities are installed or used. For large scale or continuous use:	traction point (in simple cases). Therefore nce to distance from the contaminating so s (200-400 f/min.) for extraction of solvents considerations, producing performance def e multiplied by factors of 10 or more when	the air speed at the urce. The air velocity at the generated in a tank 2 icits within the extraction extraction systems are
8.2.2. Individual protection measures, such as personal protective equipment			
Eye and face protection	 Safety glasses with side shields Chemical goggles. [AS/NZS 1337.1, EN166 or national d Contact lenses may pose a special hazard; soft contact document, describing the wearing of lenses or restriction include a review of lens absorption and adsorption for th Medical and first-aid personnel should be trained in their event of chemical exposure, begin eye irrigation immedia be removed at the first signs of eye redness or irritation have washed hands thoroughly. [CDC NIOSH Current In 	lenses may absorb and concentrate irritan ns on use, should be created for each work e class of chemicals in use and an accour removal and suitable equipment should b ately and remove contact lens as soon as - lens should be removed in a clean enviro	xplace or task. This should tt of injury experience. e readily available. In the practicable. Lens should
Skin protection	See Hand protection below		
Hands/feet protection	 Wear physical protective gloves, e.g. leather. Wear safety footwear. 		
Body protection	See Other protection below		
Other protection	 Overalls. Eyewash unit. Barrier cream. Skin cleansing cream. Some plastic personal protective equipment (PPE) (e.g. produce static electricity. For large scale or continuous use wear tight-weave non- Non sparking safety or conductive footwear should be comade from a conductive compound chemically bound to the foot an shall dissipate static electricity from the body resistance must range between 0 to 500,000 ohms. Com they are worn. Personnel who have been issued conduct homes and return. 	static clothing (no metallic fasteners, cuffs onsidered. Conductive footwear describes the bottom components, for permanent co to reduce the possibility of ignition of volar ductive shoes should be stored in lockers	or pockets). a boot or shoe with a sole ontrol to electrically ground tile compounds. Electrical close to the room in which

Respiratory protection

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

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	P1 Air-line*	-	PAPR-P1 -
up to 50 x ES	Air-line**	P2	PAPR-P2
up to 100 x ES	-	P3	-
		Air-line*	-
100+ x ES	-	Air-line**	PAPR-P3

* - Negative pressure demand ** - Continuous flow

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	Not Available		
Physical state	Divided Solid	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)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	-20	Molecular weight (g/mol)	Not Available
Flash point (°C)	Not Available	Taste	Not Available
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 Applicable
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Not Available	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available
Nanoform Solubility	Not Available	Nanoform Particle Characteristics	Not Available
Particle Size	Not Available		

9.2. Other information

Not Available

SECTION 10 Stability and reactivity

10.1.Reactivity	See section 7.2
10.2. Chemical stability	 Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
10.3. Possibility of hazardous reactions	See section 7.2
10.4. Conditions to avoid	See section 7.2
10.5. Incompatible materials	See section 7.2
10.6. Hazardous decomposition products	See section 5.3

SECTION 11 Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 Information on toxicological effects

Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. 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.
Ingestion	The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.
Skin Contact	The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.
Eye	Although the material is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may cause transient discomfort characterised by tearing or conjunctival redness (as with windburn). Slight abrasive damage may also result.
Chronic	Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.

cis-1,2-Difluoroethylene	ΤΟΧΙΟΙΤΥ	IRRITATION	
(FC-1132)	Not Available	Not Available	
Legend:	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		

Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×

Legend: X − Data either not available or does not fill the criteria for classification → Data available to make classification

11.2 Information on other hazards

11.2.1. Endocrine disrupting properties

No evidence of endocrine disrupting properties were found in the current literature.

11.2.2. Other information

See Section 11.1

SECTION 12 Ecological information

12.1. Toxicity

sis 4.0 Diffusers of bulance	Endpoint	Test Duration (hr)	Species	Value	Source
cis-1,2-Difluoroethylene (FC-1132)	Not Available	Not Available	Not Available	Not Available	Not Available
Legend:	Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data				

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

Ingredient	Bioaccumulation
	No Data available for all ingredients

12.4. Mobility in soil

Ingredient	Mobility
	No Data available for all ingredients

12.5. Results of PBT and vPvB assessment

	Р	В	т
Relevant available data	Not Available	Not Available	Not Available
PBT	×	×	×
vPvB	×	×	×
PBT Criteria fulfilled?	No		
vPvB	No		

12.6. Endocrine disrupting properties

No evidence of endocrine disrupting properties were found in the current literature.

12.7. Other adverse effects

No evidence of ozone depleting properties were found in the current literature.

SECTION 13 Disposal considerations

13.1. Waste treatment methods

Product / Packaging 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. Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or Incineration in a licensed apparatus (after admixture with suitable combustible material) Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.
Waste treatment options	Not Available
Sewage disposal options	Not Available

SECTION 14 Transport information

Labels Required

Marine Pollutant	NO
HAZCHEM	2YE

Land transport (ADR-RID)

• •	,		
14.1. UN number or ID number	3161		
14.2. UN proper shipping name	LIQUEFIED GAS, FLAMMABLE, N.O.S.		
14.3. Transport hazard class(es)	Class2.1Subsidiary riskNot Applicable		
14.4. Packing group	Not Applicable		
14.5. Environmental hazard	Not Applicable		
14.6. Special precautions for user	Hazard identification (Kemler)23Classification code2F		

Hazard Label	2.1
Special provisions	274 662
Limited quantity	0
Tunnel Restriction Code	2 (B/D)

Air transport (ICAO-IATA / DGR)

14.1. UN number	3161				
14.2. UN proper shipping name	Liquefied gas, flammable, n.o.s. *				
	ICAO/IATA Class 2.1				
14.3. Transport hazard class(es)	ICAO / IATA Subrisk	ICAO / IATA Subrisk Not Applicable			
Class(83)	ERG Code 10L				
14.4. Packing group	Not Applicable	Not Applicable			
14.5. Environmental hazard	Not Applicable				
	Special provisions		A1 A807		
	Cargo Only Packing I	nstructions	200		
	Cargo Only Maximum Qty / Pack		150 kg		
14.6. Special precautions for user	Passenger and Cargo	Packing Instructions	Forbidden		
ior user	Passenger and Cargo	Maximum Qty / Pack	Forbidden		
	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	3161		
14.2. UN proper shipping name	LIQUEFIED GAS, FLAMMABLE, N.O.S.		
14.3. Transport hazard	IMDG Class 2	2.1	
class(es)	IMDG Subrisk	Not Applicable	
14.4. Packing group	Not Applicable		
14.5. Environmental hazard	Not Applicable		
	EMS Number	F-D, S-U	
14.6. Special precautions for user	Special provisions	274	
	Limited Quantities	0	

Inland waterways transport (ADN)

14.1. UN number	3161			
14.2. UN proper shipping name	LIQUEFIED GAS, FLAMMABLE, N.O.S.			
14.3. Transport hazard class(es)	2.1 Not Applicable			
14.4. Packing group	Not Applicable			
14.5. Environmental hazard	Not Applicable			
	Classification code 2F			
	Special provisions 274; 662			
14.6. Special precautions for user	Limited quantity 0			
	Equipment required PP, EX, A			
	Fire cones number 1			

14.7. Maritime transport in bulk according to IMO instruments

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

Not Applicable

14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group

14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type

SECTION 15 Regulatory information

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

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable - : Directives 98/24/EC, - 92/85/EEC, - 94/33/EC, - 2008/98/EC, - 2010/75/EU; Commission Regulation (EU) 2020/878; Regulation (EC) No 1272/2008 as updated through ATPs.

Information according to 2012/18/EU (Seveso III):

Seveso Category P2

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

Not Applicable

National Inventory Status

National Inventory	Status		
Australia - AIIC / Australia Non-Industrial Use	Not Available		
Canada - DSL	Not Available		
Canada - NDSL	Not Available		
China - IECSC	Not Available		
Europe - EINEC / ELINCS / NLP	Not Available		
Japan - ENCS	Not Available		
Korea - KECI	Not Available		
New Zealand - NZIoC	Not Available		
Philippines - PICCS	Not Available		
USA - TSCA	Not Available		
Taiwan - TCSI	Not Available		
Mexico - INSQ	Not Available		
Vietnam - NCI	Not Available		
Russia - FBEPH	Not Available		
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.		

SECTION 16 Other information

Revision Date	16/05/2022
Initial Date	16/05/2022

Full text Risk and Hazard codes

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. 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:

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 TEEL: Temporary Emergency Exposure Limit. IDLH: Immediately Dangerous to Life or Health Concentrations ES: Exposure Standard OSF: Odour Safety Factor NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value I OD. Limit Of Detection OTV: Odour Threshold Value **BCF: BioConcentration Factors BEI: Biological Exposure Index** AIIC: Australian Inventory of Industrial Chemicals DSL: Domestic Substances List NDSL: Non-Domestic Substances List IECSC: Inventory of Existing Chemical Substance in China EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European List of Notified Chemical Substances NLP: No-Longer Polymers ENCS: Existing and New Chemical Substances Inventory KECI: Korea Existing Chemicals Inventory NZIoC: New Zealand Inventory of Chemicals PICCS: Philippine Inventory of Chemicals and Chemical Substances TSCA: Toxic Substances Control Act TCSI: Taiwan Chemical Substance Inventory INSQ: Inventario Nacional de Sustancias Químicas NCI: National Chemical Inventory FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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