

## **Apollo Scientific**

Part Number: **OR3994** Version No: **2.2** Safety Data Sheet Chemwatch Hazard Alert Code: 2

Issue Date: **06/07/2023** Print Date: **06/07/2023** S.GHS.GB-NIR.EN

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

### **Product Identifier**

Product name	2-Chlorophenylhydrazine hydrochloride		
Chemical Name	chlorophenylhydrazine hydrochloride		
Synonyms	Not Available		
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.		
Chemical formula	C6-H7-CI-N2 .CI-H		
Other means of identification	Not Available		
CAS number	41052-75-9*		

### Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses N

Not Available

### Details of the manufacturer or supplier of the safety data sheet

Registered company name	Apollo Scientific	Apollo Scientific Itd
Address	Whitefield Road, Bredbury SK62QR United Kingdom	Whitefield Road, Bredbury Cheshire SK6 2QR United Kingdom (NI)
Telephone	01614060505	+44(0) 161 406 0505
Fax	0161 406 0506	Not Available
Website	http://www.apolloscientific.co.uk/	apolloscientific.co.uk
Email	sales@apolloscientific.co.uk	sales@apolloscientific.co.uk

### Emergency telephone number

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

### **SECTION 2 Hazards identification**

### Classification of the substance or mixture

Classification according to<br/>regulation (EC) No<br/>1272/2008 [CLP] andH312 - Acute Toxicity (Dermal) Category 4, H400 - Hazardous to the Aquatic Environment Acute Hazard Category 1, H332 -<br/>Acute Toxicity (Inhalation) Category 4, H302 - Acute Toxicity (Oral) Category 4, H317 - Sensitisation (Skin) Category 1, H410 -<br/>Hazardous to the Aquatic Environment Long-Term Hazard Category 1, H351 - Carcinogenicity Category 2

amendments [1]	
Legend:	1. Classified by Chemwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI
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abel elements	

Hazard pictogram(s)	
Signal word	Warning

### Hazard statement(s)

H312	Harmful in contact with skin.	
H332	armful if inhaled.	
H302	Harmful if swallowed.	
H317	May cause an allergic skin reaction.	
H410	Very toxic to aquatic life with long lasting effects.	
H351	Suspected of causing cancer.	

### Precautionary statement(s) Prevention

P201	Obtain special instructions before use.	
P271	Jse only outdoors or in a well-ventilated area.	
P280	280 Wear protective gloves and protective clothing.	
P261	Avoid breathing dust/fumes.	
P264	Wash all exposed external body areas thoroughly after handling.	
P270	Do not eat, drink or smoke when using this product.	
P273	Avoid release to the environment.	
P272	Contaminated work clothing should not be allowed out of the workplace.	

### Precautionary statement(s) Response

P308+P313	IF exposed or concerned: Get medical advice/ attention.		
P302+P352	F ON SKIN: Wash with plenty of water.		
P333+P313	f skin irritation or rash occurs: Get medical advice/attention.		
P362+P364	Take off contaminated clothing and wash it before reuse.		
P391	Collect spillage.		
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider if you feel unwell.		
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.		
P330	Rinse mouth.		

### Precautionary statement(s) Storage

Store locked up.

### Precautionary statement(s) Disposal

P501

P405

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

### **SECTION 3 Composition / information on ingredients**

### Substances

CAS No	%[weight]	Name	Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	SCL / M-Factor
41052-75-9*	100	2-Chlorophenylhydrazine hydrochloride	Acute Toxicity (Dermal) Category 4, Hazardous to the Aquatic Environment Acute Hazard Category 1, Acute Toxicity (Inhalation) Category 4, Acute Toxicity (Oral) Category 4, Sensitisation (Skin) Category 1, Hazardous to the Aquatic Environment Long-Term	Not Available

CAS No	%[weight]	Name	Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	SCL / M-Factor
			Hazard Category 1, Carcinogenicity Category 2; H312, H332, H302, H317, H410, H351 <sup>[1]</sup>	

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

#### Mixtures

See section above for composition of Substances

#### **SECTION 4 First aid measures**

### Description of first aid measures

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

#### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### **SECTION 5 Firefighting 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.

#### Advice for firefighters

Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use fire fighting procedures suitable for surrounding area.</li> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> <li>Equipment should be thoroughly decontaminated after use.</li> </ul>
Fire/Explosion Hazard	<ul> <li>Non combustible.</li> <li>Not considered a significant fire risk, however containers may burn.</li> </ul>

#### **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	<ul> <li>Clean up waste regularly and abnormal spills immediately.</li> <li>Avoid breathing dust and contact with skin and eyes.</li> <li>Wear protective clothing, gloves, safety glasses and dust respirator.</li> <li>Use dry clean up procedures and avoid generating dust.</li> <li>Vacuum up or sweep up. NOTE: Vacuum cleaner must be fitted with an exhaust micro filter (H-Class HEPA type) (consider explosion-proof machines designed to be grounded during storage and use). H-Class HEPA filtered industrial vacuum cleaners should NOT be used on wet materials or surfaces.</li> <li>Dampen with water to prevent dusting before sweeping.</li> <li>Place in suitable containers for disposal.</li> <li>Environmental hazard - contain spillage.</li> </ul>
Major Spills	<ul> <li>Environmental hazard - contain spillage.</li> <li>Moderate hazard.</li> <li>CAUTION: Advise personnel in area.</li> <li>Alert Emergency Services and tell them location and nature of hazard.</li> <li>Control personal contact by wearing protective clothing.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Recover product wherever possible.</li> <li>IF DRY: Use dry clean up procedures and avoid generating dust. Collect residues and place in sealed plastic bags or other containers for disposal. IF WET: Vacuum/shovel up and place in labelled containers for disposal.</li> <li>ALWAYS: Wash area down with large amounts of water and prevent runoff into drains.</li> <li>If contamination of drains or waterways occurs, advise Emergency Services.</li> </ul>

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

### **SECTION 7 Handling and storage**

### Precautions for safe handling

	Avoid all personal contact, including inhalation.
	Wear protective clothing when risk of exposure occurs.
	► Use in a well-ventilated area.
	Prevent concentration in hollows and sumps.
	DO NOT enter confined spaces until atmosphere has been checked.
	DO NOT allow material to contact humans, exposed food or food utensils.
	Avoid contact with incompatible materials.
Safe handling	When handling, DO NOT eat, drink or smoke.
Sale handling	Keep containers securely sealed when not in use.
	Avoid physical damage to containers.
	Always wash hands with soap and water after handling.
	Work clothes should be laundered separately. Launder contaminated clothing before re-use.
	Use good occupational work practice.
	Observe manufacturer's storage and handling recommendations contained within this SDS.
	Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.
	Store in original containers.
	Keep containers securely sealed.
	Store in a cool, dry area protected from environmental extremes.
	Store away from incompatible materials and foodstuff containers.
	Protect containers against physical damage and check regularly for leaks.
Other information	Observe manufacturer's storage and handling recommendations contained within this SDS.
	For major quantities:
	Consider storage in bunded areas - ensure storage areas are isolated from sources of community water (including stormwater, ground water, lakes and streams).
	• Ensure that accidental discharge to air or water is the subject of a contingency disaster management plan; this may require

### Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>Polyethylene or polypropylene container.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>	
Storage incompatibility	None known	

### **SECTION 8 Exposure controls / personal protection**

### **Control parameters**

### Occupational Exposure Limits (OEL)

INGREDIENT DATA

#### Not Available

### Emergency Limits

Ingredient	TEEL-1	TEEL-2		TEEL-3
2-Chlorophenylhydrazine hydrochloride	Not Available	Not Available		Not Available
Ingredient	Original IDLH		Revised IDLH	
2-Chlorophenylhydrazine hydrochloride	Not Available		Not Available	

#### Occupational Exposure Banding

Exposure controls

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit	
2-Chlorophenylhydrazine hydrochloride	E	≤ 0.01 mg/m³	
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.		

	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.			
Appropriate engineering	<ul> <li>Local exhaust ventilation is required where solids are handled as powders or crystals; even when particulates are relatively large, a certain proportion will be powdered by mutual friction.</li> <li>If in spite of local exhaust an adverse concentration of the substance in air could occur, respiratory protection should be considered.</li> <li>Such protection might consist of:         <ul> <li>(a): particle dust respirators, if necessary, combined with an absorption cartridge;</li> <li>(b): filter respirators with absorption cartridge or canister of the right type;</li> <li>(c): fresh-air hoods or masks.</li> </ul> </li> <li>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.</li> </ul>			
controls	Type of Contaminant:	Air Speed:		
	direct spray, spray painting in shallow booths, drum filling discharge (active generation into zone of rapid air motion)	1-2.5 m/s (200-500 f/min.)		
	grinding, abrasive blasting, tumbling, high speed wheel go velocity into zone of very high rapid air motion).	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.	3: High production, heavy use		

	distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.
Individual protection measures, such as personal protective equipment	
Eye and face protection	<ul> <li>Safety glasses with side shields.</li> <li>Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]</li> <li>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].</li> </ul>
Skin protection	See Hand protection below
Hands/feet protection	<ul> <li>NOTE:</li> <li>The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and othe protective equipment, to avoid all possible skin contract.</li> <li>Contaminated leafher items, such as shoes, belts and watch-bands should be removed and destroyed.</li> <li>The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.</li> <li>The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.</li> <li>Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and drived thoroughly. Application of a non-perfurmed moisturiser is recommended.</li> <li>Chemical resistance of glove material.</li> <li>ejove thickness and</li> <li>- device the thoreage of the set of the application.</li> <li>When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 4.5 AlxISZ 2161.10 or national equivalent).</li> <li>When only brief contact is expected, aglove with a protection class of 3 or higher (breakthrough time set of an investor of ong the 374, ASIVSZ 2161.10 or national equivalent).</li> <li>Some glove polymer types are less alfected by movement and this should be taken into account when considering gloves for long-term use.</li> <li>Conta</li></ul>

Other protection	<ul> <li>Overalls.</li> <li>P.V.C apron.</li> <li>Barrier cream.</li> <li>Skin cleansing cream.</li> <li>Eye wash unit.</li> </ul>
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#### **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)

· Respirators may be necessary when engineering and administrative controls do not adequately prevent exposures.

• The decision to use respiratory protection should be based on professional judgment that takes into account toxicity information, exposure measurement data, and frequency and likelihood of the worker's exposure - ensure users are not subject to high thermal loads which may result in heat stress or distress due to personal protective equipment (powered, positive flow, full face apparatus may be an option).

• Published occupational exposure limits, where they exist, will assist in determining the adequacy of the selected respiratory protection. These may be government mandated or vendor recommended.

Certified respirators will be useful for protecting workers from inhalation of particulates when properly selected and fit tested as part of a complete respiratory protection program.

• Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)

· Use approved positive flow mask if significant quantities of dust becomes airborne.

· Try to avoid creating dust conditions.

#### **SECTION 9** Physical and chemical properties

#### Information on basic physical and chemical properties

Appearance	Not Available		
Physical state	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)	200-202(dec.)	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
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

### **SECTION 10 Stability and reactivity**

Reactivity	See section 7
Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
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

Respiratory or Skin

sensitisation Mutagenicity ~

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Inhaled	The material is not thought to produce adverse using animal models). Nevertheless, good hygic measures be used in an occupational setting.		espiratory tract (as classified by EC Directives re be kept to a minimum and that suitable control
Ingestion	The material has <b>NOT</b> been classified by EC Di of the lack of corroborating animal or human ev		stems as "harmful by ingestion". This is because
Skin Contact	The material is not thought to produce adverse using animal models). Nevertheless, good hygi be used in an occupational setting. Open cuts, abraded or irritated skin should not Entry into the blood-stream, through, for examp Examine the skin prior to the use of the materia	ene practice requires that exposu be exposed to this material le, cuts, abrasions or lesions, may	re be kept to a minimum and that suitable gloves y produce systemic injury with harmful effects.
Eye	Although the material is not thought to be an irri transient discomfort characterised by tearing or		es), direct contact with the eye may cause dburn). Slight abrasive damage may also result.
Chronic	There has been concern that this material can on Skin contact with the material is more likely to c population.		5
Legend:	1. Value obtained from Europe ECHA Registere Unless otherwise specified data extracted from		
2-Chlorophenylhydrazine hydrochloride	The following information refers to contact allerg Contact allergies quickly manifest themselves a pathogenesis of contact eczema involves a cell skin reactions, e.g. contact urticaria, involve and simply determined by its sensitisation potential: equally important. A weakly sensitising substan stronger sensitising potential with which few ind noteworthy if they produce an allergic test react	is contact eczema, more rarely as -mediated (T lymphocytes) immur ibody-mediated immune reactions the distribution of the substance ce which is widely distributed can ividuals come into contact. From	urticaria or Quincke's oedema. The ne reaction of the delayed type. Other allergic s. The significance of the contact allergen is not and the opportunities for contact with it are be a more important allergen than one with a clinical point of view, substances are
Acute Toxicity	<b>~</b>	Carcinogenicity	<b>√</b>
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×

STOT - Repeated Exposure

Aspiration Hazard

×

×

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

### **SECTION 12 Ecological information**

### Toxicity

 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

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

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

**DO NOT** discharge into sewer or waterways.

#### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
2-Chlorophenylhydrazine hydrochloride	HIGH	HIGH

### Bioaccumulative potential

Ingredient	Bioaccumulation
2-Chlorophenylhydrazine hydrochloride	LOW (LogKOW = 1.4387)

#### Mobility in soil

Ingredient	Mobility
2-Chlorophenylhydrazine hydrochloride	LOW (KOC = 143.1)

#### **SECTION 13 Disposal considerations**

Vaste treatment methods	
	Containers may still present a chemical hazard/ danger when empty.
	Return to supplier for reuse/ recycling if possible.
	Otherwise:
	• If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to
Product / Packaging	store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.
disposal	Where possible retain label warnings and SDS and observe all notices pertaining to the product.
	Recycle wherever possible or consult manufacturer for recycling options.
	Consult State Land Waste Management Authority for disposal.
	<ul> <li>Bury residue in an authorised landfill.</li> </ul>
	Recycle containers if possible, or dispose of in an authorised landfill.

### **SECTION 14 Transport information**

Labels Required	
Marine Pollutant	

### Land transport (ADR-RID)

UN number or ID number	3077			
UN proper shipping name	ENVIRONMENTALI	LY HAZARDO	JS SUBSTANCE, SOLID, N.O.S.	
<b>-</b>	Class	9		
Transport hazard class(es)	Subsidiary risk	Not Applicab	9	
Packing group	Ш			
Environmental hazard	Environmentally haz	zardous		
	Hazard identificati	ion (Kemler)	90	
	Classification code	e	M7	
Special precautions for	Hazard Label		9	
user	Special provisions	3	274 335 375 601	
	Limited quantity		5 kg	
	Tunnel Restriction	n Code	3 (-)	

### Air transport (ICAO-IATA / DGR)

UN number	3077			
UN proper shipping name	Environmentally hazard	ous substance, solid, n.o.s.		
	ICAO/IATA Class	9		
Transport hazard class(es)	ICAO / IATA Subrisk	Not Applicable		
	ERG Code	9L		
Packing group	III			
Environmental hazard	Environmentally hazard	ous		
	Special provisions		A97 A158 A179 A197 A215	
	Cargo Only Packing Ir	nstructions	956	
	Cargo Only Maximum	Qty / Pack	400 kg	
Special precautions for user	Passenger and Cargo	Packing Instructions	956	
	Passenger and Cargo	Maximum Qty / Pack	400 kg	
	Passenger and Cargo	Limited Quantity Packing Instructions	Y956	-
	Passenger and Cargo	Limited Maximum Qty / Pack	30 kg G	-

### Sea transport (IMDG-Code / GGVSee)

UN number	3077	
UN proper shipping name	ENVIRONMENTALL	Y HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Transport hazard class(es)	IMDG Class 9 IMDG Subrisk N	9 Not Applicable
Packing group	III	
Environmental hazard	Marine Pollutant	
	EMS Number	F-A, S-F
Special precautions for user	Special provisions	274 335 966 967 969
usci	Limited Quantities	5 kg

### Inland waterways transport (ADN)

UN number	3077
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Transport hazard class(es)	9 Not Applicable
Packing group	

Environmental hazard	Environmentally hazard	lous
	Classification code	M7
	Special provisions	274; 335; 375; 601
Special precautions for user	Limited quantity	5 kg
2001	Equipment required	PP, A***
	Fire cones number	0

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

Not Applicable

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

Product name	Group
2-Chlorophenylhydrazine hydrochloride	Not Available

### Transport in bulk in accordance with the IGC Code

Product name	Ship Type
2-Chlorophenylhydrazine hydrochloride	Not Available

### **SECTION 15 Regulatory information**

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

### 2-Chlorophenylhydrazine hydrochloride is found on the following regulatory lists

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

### **National Inventory Status**

National Inventory	Status	
Australia - AIIC / Australia Non-Industrial Use	No (2-Chlorophenylhydrazine hydrochloride)	
Canada - DSL	Yes	
Canada - NDSL	No (2-Chlorophenylhydrazine hydrochloride)	
China - IECSC	No (2-Chlorophenylhydrazine hydrochloride)	
Europe - EINEC / ELINCS / NLP	Yes	
Japan - ENCS	No (2-Chlorophenylhydrazine hydrochloride)	
Korea - KECI	No (2-Chlorophenylhydrazine hydrochloride)	
New Zealand - NZIoC	No (2-Chlorophenylhydrazine hydrochloride)	
Philippines - PICCS	No (2-Chlorophenylhydrazine hydrochloride)	
USA - TSCA	No (2-Chlorophenylhydrazine hydrochloride)	
Taiwan - TCSI	Yes	
Mexico - INSQ	No (2-Chlorophenylhydrazine hydrochloride)	
Vietnam - NCI	Yes	
Russia - FBEPH	No (2-Chlorophenylhydrazine hydrochloride)	
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	06/07/2023
Initial Date	07/07/2023

### **SDS Version Summary**

Version	Date of Update	Sections Updated
1.2	06/07/2023	Toxicological information - Acute Health (skin), CAS Number, Toxicological information - Chronic Health, Hazards identification - Classification, Disposal considerations - Disposal, Ecological Information - Environmental, First Aid measures - First Aid (skin), Handling and storage - Handling Procedure, Composition / information on ingredients - Ingredients, Korean MSDS Number, Exposure controls / personal protection - Personal Protection (other), Exposure controls / personal protection - Personal Protection (other), Personal Protection (hands/feet), Accidental release measures - Spills (major), Accidental release measures - Spills (minor), Handling and storage - Storage (storage incompatibility), Handling and storage - Storage (suitable container), Identification of the substance / mixture and of the company / undertaking - Synonyms

### 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

LOD: 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

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	Classification Procedure
Acute Toxicity (Dermal)	Expert judgement

Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	Classification Procedure	
Category 4, H312		
Hazardous to the Aquatic Environment Acute Hazard Category 1, H400	Expert judgement	
Acute Toxicity (Inhalation) Category 4, H332	Expert judgement	
Acute Toxicity (Oral) Category 4, H302	Expert judgement	
Sensitisation (Skin) Category 1, H317	Calculation method	
Hazardous to the Aquatic Environment Long-Term Hazard Category 1, H410	Calculation method	
Carcinogenicity Category 2, H351	Calculation method	

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