

## 2,4-DIAMINO-6-CHLOROPYRIMIDINE

Revision Date: 07-10-25 Revision Number: 6.1

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

**Product Name** 2,4-DIAMINO-6-CHLOROPYRIMIDINE **Chemical Name** Not Available **Synonyms** C4-H5-Cl-N4; pyrimidine, 2,6-diamino-4-chloropyrimidine **Chemical Formula** C4-H5-Cl-N4 Other means of identification Not available **CAS Number** 156-83-2

Relevant identified uses of the substance or mixture and uses advised against: Aminopyrimidines represent very important class of functionalized heterocycles having wide applications in organic and medicinal chemistry. Aminopyrimidines have found a role as ALK inhibitors. Anaplastic lymphoma kinase (ALK), a member of the insulin receptor superfamily of receptor tyrosine kinases, has been implicated in oncogenesis in haematopoietic and non-haematopoietic tumors. A novel series of 4,6disubstituted 2-aminopyrimidines have found a role as RAGE inhibitors. Receptor for advanced glycation end-products (RAGE) is a pattern recognition receptor implicated in the pathogenesis of certain types of cancer. 2-Aminopyrimidines also have found a role in the inhibition of polo-like kinases (PLKs) which induce mitotic arrest and apoptosis in diverse human cancer cell lines A series of novel opyrimidine and 2-substituted-4,6-diaminopyrimidine derivatives exhibit antiplatelet aggregation activity. Certain aminopyrimidine heterocyclic compound show an adenosine receptor antagonism whilst others are inhibitors of EGFR (epidermal growth factor Relevant identified uses Aminopyrimidines are considered as promising substrates in multi-component reactions for the synthesis of diverse heterocycles. The synthesis of alpha, beta-unsaturated carbonyl compounds is one of main structural component in various naturally occurring and biologically essential substances. The alpha, beta-unsaturated carbonyl motif is found in chalcones, pyrazolines and pyrimidine

derivatives

Pyrimidine derivatives play a vital role in many biological processes and show remarkable pharmaceutical importance because of their biological activities as anti-HIV. antitubercular and antidiabetic agents.

 $Most \, natural \, or \, synthetic \, chalcones \, are \, highly \, active \, with \, extensive \, pharmaceutical \, and \, active \, with \, extensive \, pharmaceutical \, and \, active \, with \, extensive \, pharmaceutical \, and \, active \, with \, extensive \, pharmaceutical \, and \, active \, with \, extensive \, pharmaceutical \, and \, active \, with \, extensive \, pharmaceutical \, and \, active \, with \, extensive \, pharmaceutical \, and \, active \, with \, extensive \, pharmaceutical \, and \, active \, with \, extensive \, pharmaceutical \, and \, active \, with \, extensive \, pharmaceutical \, and \, active \, with \, extensive \, pharmaceutical \, and \, active \, with \, extensive \, pharmaceutical \, and \, active \, with \, extensive \, pharmaceutical \, and \, active \, pharmaceutical \, and \, active \, pharmaceutical \, active \, pharm$ medicinal application. Chalcones are found to be effective as anticancer, antiviral, cardiovascular and anti-inflammatory agents.

Pyrazoline derivatives have been found to be antitumor and immunosuppressive agents and cerebroprotective.and CNS-depressant.

Intermediate.

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

Registered company name	Cohizon Life Sciences Limited
Address	Plot No. 6102/3, 6117-19, 5809-10, GIDC, Ankleshwar Gujarat 393002 India
Telephone	NotAvailable
Fax	NotAvailable
Website	NotAvailable
Email	Not Available



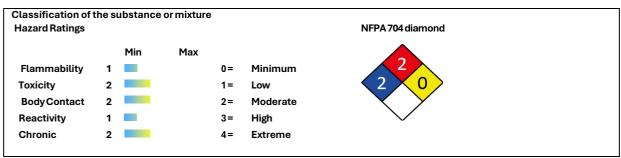
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### Emergency telephone number:

Association / Organisation	Cohizon Life Sciences Limited
Emergency telephone	91) 7046611150/51
number(s)	(101)7040011100701
Otheremergency telephone	(+91) 6357684904
number(s)	(+31)0337004304

### SECTION 2 Hazards identification



Note: The hazard category numbers found in GHS classification in section 2 of this SDSs are NOT to be used to fill in the NFPA 704 diamond. Blue = Health Red = Fire Yellow = Reactivity White = Special (Oxidizer or water reactive substances).

	Acute Toxicity (Oral and Dermal) Category 4, Skin Corrosion/Irritation Category 2, Sensitisation
Classification	(Skin) Category 1, Serious Eye Damage/Eye Irritation Category 2A,
	Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) Category 3

### Label elements

Hazard pictogram(s)			
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Signal word	Warning

### Hazard statement(s)

H302+H312	Harmful if swallowed or if contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

### Precautionary statement(s) Prevention

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P264	Wash all exposed external body areas thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves, protective clothing, eye protection and face protection.
P261	Avoid breathing dust/fumes.
P272	Contaminated work clothing should not be allowed out of the workplace.



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### Precautionary statement(s) Response

P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider if you feel unwell.
P302+P352	IF ON SKIN: Wash with plenty of water.
P330	Rinse mouth.
P362+P364	Take off contaminated clothing and wash it before reuse.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.

### Precautionary statement(s) Storage

P405	Store Locked up
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

### Precautionary statement(s) Disposal

	•	•	·
P501			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
156-83-2	>98	2,4-Diamino-6-chloropyrimidine

### Mixtures

See Section above for composition of substances

### SECTION 4 First aid measures

### Description of first aid measures

Description of first aid	d measures
	If this product comes in contact with the eyes:
	Wash out immediately with fresh running water.
	Ensure complete irrigation of the eye by keeping eyelids apart and away from eye
Eye Contact	and moving the eyelids by occasionally lifting the upper and lower lids.
2,000	Seek medical attention without delay; if pain persists or recurs seek medical
	attention.
	<ul> <li>Removal of contact lenses after an eye injury should only be undertaken by</li> </ul>
	skilled personnel.
	If skin or hair contact occurs:
Skin Contact	<ul> <li>Immediately remove all contaminated clothing, including footwear.</li> </ul>
Skiii Contact	<ul> <li>Flush skin and hair with running water (and soap if available</li> </ul>
	Seek medical attention in event of irritation
	<ul> <li>If fumes or combustion products are inhaled remove from contaminated area.</li> </ul>
	Lay patient down. Keep warm and rested.
	<ul> <li>Prostheses such as false teeth, which may block airway, should be removed,</li> </ul>
lu la al atia u	where possible, prior to initiating first aid procedures.
Inhalation	<ul> <li>Apply artificial respiration if not breathing, preferably with a demand valve</li> </ul>
	resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if
	necessary.
	Transport to hospital, or doctor, without delay.
	<ul> <li>IF SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE,</li> </ul>
	WITHOUT DELAY.
Ingestion	For advice, contact a Poisons Information Centre or a doctor.
	Urgent hospital treatment is likely to be needed
	In the meantime, qualified first-aid personnel should treat the patient



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following observation and employing supportive measures as indicated by the patient's condition.

- If the services of a medical officer or medical doctor are readily available, the
  patient should be placed in his/her care and a copy of the SDS should be
  provided. Further action will be the responsibility of the medical specialist.
- If medical attention is not available on the worksite or surroundings send the patient to a hospital together with a copy of the SDS.
- Where medical attention is not immediately available or where the patient is more than 15 minutes from a hospital or unless instructed otherwise:
- INDUCE vomiting with fingers down the back of the throat, ONLY IF CONSCIOUS. Lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.
- NOTE: Wear a protective glove when inducing vomiting by mechanical means

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

As in all cases of suspected poisoning, follow the ABCDEs of emergency medicine (airway, breathing, circulation, disability, exposure), then the ABCDEs of toxicology (antidotes, basics, change absorption, change distribution, change elimination). For poisons (where specific treatment regime is absent):

#### **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
- **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 drool.

### **Advanced Treatment:**

- Consider orotracheal or nasotracheal intubation for airway control in unconscious patient or where respiratory arrest has occurred.
   Positivepressure ventilation using a bag-valve mask might be of use.
- Monitor and treat, where necessary, for arrhythmias.
- Start an IV D5W TKO. If signs of hypovolaemia are present use lactated Ringers solution. Fluid overload might create complications.
   Drug therapy should be considered for pulmonary oedema.
- Hypotension with signs of hypovolaemia requires the cautious administration of fluids. Fluid overload might create complications.
   Treat seizures with diazepam.
- Proparacaine hydrochloride should be used to assist eye irrigation.

BRONSTEIN, A.C. and CURRANCE, P.L

EMERGENCY CARE FOR HAZARDOUS MATERIALS EXPOSURE: 2nd Ed. 1994

**Treat symptomatically** 

## **SECTION 5 Firefighting measures**

### **Extinguishing media**

- Foam
- Dry Chemical Powder
- BCF (where regulations permit).
- Carbon dioxide
- Water Spray or Fog Larges files only



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### 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.

## Advice for firefighters 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 courses Use water delivered as a fine spray to control fire and cool adjacent area Fire Fighting DO NOT approach containers suspected to be hot Cool fire exposed containers with water spray from a protected location If safe to do so, remove containers from path of fire. Equipment should be thoroughly decontaminated after use Combustible solid which burns but propagates flame with difficulty; it is estimated that most organic dusts are combustible (circa 70%) - according to the circumstances under which the combustion process occurs, such materials may cause fires and / or dust explosions. Organic powders when finely divided over a range of concentrations regardless of particulate size or shape and suspended in air or some other oxidizing medium may form explosive dust-air mixtures and result in a fire or dust explosion (including secondary explosions). Avoid generating dust, particularly clouds of dust in a confined or unventilated space as dusts may form an explosive mixture with air, and any source of ignition, i.e. flame or spark, will cause fire or explosion. Dust clouds generated by the fine grinding of the solid are a particular hazard; accumulations of fine dust (420 micron or less) may burn rapidly and fiercely if ignited - particles exceeding this limit will generally not form flammable dust clouds; once initiated, however, larger particles up to 1400 microns diameter will contribute to the propagation of an explosion. In the same way as gases and vapours, dusts in the form of a cloud are only ignitable over a range of concentrations; in principle, the concepts of lower explosive limit (LEL) and upper explosive limit (UEL) are applicable to dust clouds but only the LEL is of practical use; - this is because of the inherent difficulty of achieving homogeneous dust clouds at high temperatures (for dusts the LEL is often called the "Minimum Explosible Concentration", MEC). Fire/Explosion Hazard When processed with flammable liquids/vapors/mists, ignitable (hybrid) mixtures may be formed with combustible dusts. Ignitable mixtures will increase the rate of explosion pressure rise and the Minimum Ignition Energy (the minimum amount of energy required to ignite dust clouds - MIE) will be lower than the pure dust in air mixture. The Lower Explosive Limit (LEL) of the vapour/dust mixture will be lower than the individual LELs for the vapors/mists A dust explosion may release of large quantities of gaseous products; this in turn creates a subsequent pressure rise of explosive force capable of damaging plant and buildings and injuring people. Usually the initial or primary explosion takes place in a confined space such as plant or machinery, and can be of sufficient force to damage or rupture the plant. If the shock wave from the primary explosion enters the surrounding area, it will disturb any settled dust layers, forming a second dust cloud, and often initiate a much larger secondary explosion. All large scale explosions have resulted from chain reactions of this type. Dry dust can be charged electrostatically by turbulence, pneumatic transport, pouring, in exhaust ducts and during transport. Build-up of electrostatic charge may be prevented by bonding and grounding. Powder handling equipment such as dust collectors, dryers and mills may



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require additional protection measures such as explosion venting. All movable parts coming in contact with this material should have a speed of less than 1-meter/sec. A sudden release of statically charged materials from storage or process equipment, particularly at elevated temperatures and/ or pressure, may  $result in ignition \, especially \, in \, the \, absence \, of \, an \, apparent \, ignition \, source.$ One important effect of the particulate nature of powders is that the surface area and surface structure (and often moisture content) can vary widely from sample to sample, depending of how the powder was manufactured and handled; this means that it is virtually impossible to use flammability data published in the literature for dusts (in contrast to that published for gases and vapours). Autoignition temperatures are often quoted for dust clouds (minimum ignition temperature (MIT)) and dust layers (layer ignition temperature (LIT)); LIT generally falls as the thickness of the layer increases. Combustion products include: Carbon Monoxide (CO) carbon dioxide (CO2) Hydrogen Chloride Phosgene Hydrogen Fluoride nitrogen oxides (NOx)

other pyrolysis products typical of burning organic material.

## SECTION 6 Accidental release measures

### $Personal\,precautions, protective\,equipment\,and\,emergency\,procedures$

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poisonous fumes.
May emit corrosive fumes

See section 8

### **Environmental precautions**

See section 12

### Methods and material for containment and cleaning up

Methods and material for containment and cleaning up			
	Remove all ignition sources.		
	Clean up all spills immediately.		
Minor Spills	Avoid contact with skin and eyes.		
i illor opikis	Control personal contact with the substance, by using protective equipment.		
	Use dry clean up procedures and avoid generating dust.		
	<ul> <li>Place in a suitable, labelled container for waste disposal.</li> </ul>		
	Moderate hazard.		
	CAUTION: Advise personnel in area.		
	Alert Emergency Services and tell them the location and nature of hazard.		
	<ul> <li>Control personal contact by wearing protective clothing.</li> </ul>		
	<ul> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> </ul>		
Maias Cuilla	Recover products wherever possible.		
Major Spills	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.		
	ALWAYS: Wash area down with large amounts of water and prevent runoff into		
	drains.		
	If contamination of drains or waterways occurs, advise Emergency Services.		

 $Personal\,Protective\,Equipment\,advice\,is\,contained\,in\,Section\,8\,of\,the\,SDS$ 



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### **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 wellventilated area.
- Prevent concentration in hollows and sumps.
- DO NOT enter confined spaces until the atmosphere has been checked.
- DO NOT allow material to contact humans, exposed food or food utensils
- Avoid contact with incompatible materials.
- When handling, **DO NOT** eat, drink or smoke.
- Keep containers securely sealed when not in use.
- Avoid physical damage to containers
- Always wash hands with soap and water after handling
- Work clothes should be laundered separately
- 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.
- Organic powders when finely divided over a range of concentrations
  regardless of particulate size or shape and suspended in air or some other
  oxidizing medium may form explosive dust-air mixtures and result in a fire or
  dust explosion (including secondary explosions)
- Minimise airborne dust and eliminate all ignition sources. Keep away from heat, hot surfaces, sparks, and flame.
- Establish good housekeeping practices.
- Remove dust accumulations on a regular basis by vacuuming or gentle sweeping to avoid creating dust clouds.
- Use continuous suction at points of dust generation to capture and minimise
  the accumulation of dusts. Particular attention should be given to overhead
  and hidden horizontal surfaces to minimise the probability of a "secondary"
  explosion. According to NFPA Standard 654, dust layers 1/32 in.(0.8 mm)
  thick can be sufficient to warrant immediate cleaning of the area.
- Do not use air hoses for cleaning.
- Minimise dry sweeping to avoid generation of dust clouds. Vacuum dustaccumulating surfaces and remove to a chemical disposal area. Vacuums with explosion-proof motors should be used.
- Control sources of static electricity. Dusts or their packages may accumulate static charges, and static discharge can be a source of ignition.
- Solids handling systems must be designed in accordance with applicable standards (e.g. NFPA including 654 and 77) and other national guidance.
- Do not empty directly into flammable solvents or in the presence of flammable vapors.
- The operator, the packaging container and all equipment must be grounded with electrical bonding and grounding systems. Plastic bags and plastics cannot be grounded, and antistatic bags do not completely protect against development of static charges.
- Empty containers may contain residual dust which has the potential to accumulate following settling. Such dusts may explode in the presence of an appropriate ignition source.

### Safe Handling



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	<ul> <li>Do NOT cut, drill, grind or weld such containers.</li> <li>In addition ensure such activity is not performed near full, partially empty or empty containers without appropriate workplace safety authorization or permit.</li> </ul>
Other information	<ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>Store in a cool, dry area protected from environmental extremes.</li> <li>Store away from incompatible materials and foodstuff containers.</li> <li>Protect containers against physical damage and check regularly for leaks.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> </ul>
	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 consultation with local authorities.

### Conditions for safe storage, including any incompatibilities

Suitable container	•	Polyethylene or polypropylene container. Check all containers are clearly labelled and free from leaks.
Storage incompatibility	•	Avoid strong acids, acid chlorides, acid anhydrides and chloroformates.
otorage meempamem,	•	Avoid reaction with oxidising agents

### **Control Parameters**

Occupational Exposure Limits (OEL)

### INGREDIENT DATA

Not Available

1 TO C7 (Validable		
Ingredient	Original IDLH	Revised IDLH
2,4-Diamino-6- chloropyrimidine	Not Available	Not Available
Notes:	based on a chemical's potency a	a process of assigning chemicals into specific categories or bands nd the adverse health outcomes associated with exposure. The output exposure band (OEB), which corresponds to a range of exposure to protect worker health.

### Occupational Exposure Banding:

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit
2,4-DIAMINO-6-CHLOROPYRIMIDINE	D $> 0.01 \text{ to } \le 0.1 \text{ mg/m}^3$	
Notes:	Occupational exposure banding is a pro- categories or bands based on a chemica outcomes associated with exposure. The occupational exposure band (OEB), whi exposure concentrations that are expecte	e output of this process is an ich corresponds to a range of

## Exposure controls

Appropriate engineering controls	<ul> <li>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.</li> <li>The basic types of engineering controls are:</li> </ul>
	<ul> <li>Process controls which involve changing the way a job activity or process is done to reduce the risk.</li> <li>Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that</li> </ul>



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	strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure.  • Local exhaust ventilation usually required. If risk of overexposure exists, wear approved respirator. Correct fit is essential to obtain adequate protection. Supplied-air type respirator may be required in special circumstances. Correct fit is essential to ensure adequate protection.  • An approved self contained breathing apparatus (SCBA) may be required in some situations.  • Provide adequate ventilation in warehouse or closed storage area. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant			
	Type of Contaminant		Air Speed	
	direct spray, spray painting in shallow booths,	drum filling,	1-2.5 m/s (200-	
	conveyer loading, crusher dusts, gas discha	irge (active	500	
	generation into zone of rapid air motion)	and wheel	ft/min)	
	grinding, abrasive blasting, tumbling, high sp generated dusts (released at high initial velocity		2.5-10 m/s (500- 2000 ft/min)	
	very high rapid air motion).	III.O ZOITO OI	2000 10/11/11)	
	Which each range the appropriate value deper	ıds on		
	Lower end of the range	Upper end of the r	ange	
	1. Room air currents minimal or favourable	1. Disturbing roo	m air currents	
	to capture		<b>61.14.1.15</b>	
	Contaminants of low toxicity or of nuisance value only	2: Contaminants	of high toxicity	
	3. Intermittent, low production	3: High productio	n, heavy use	
	4. Large hood or large air mass in motion	4: Small hood-lo		
	<ul> <li>Simple theory shows that air velocity f</li> </ul>	Simple theory shows that air velocity falls rapidly with distance away from the		
	opening of a simple extraction pipe.	Velocity generally	y decreases with the	
	square of distance from the extraction	n point (in simple c	ases).	
	Therefore, the air speed at the ex	traction point sh	ould be adjusted,	
	accordingly, after reference to distance	e from the contami	nating source.	
	The air velocity at the extraction fan, f	or example, should	d be a minimum of 4-	
	10 m/s (800-2000 ft/min) for extraction	n of crusher dusts	generated 2 metres	
	distant from the extraction point. Other	er mechanical		
	considerations, producing performan			
	apparatus, make it essential that the			
Individual protection	factors of 10 or more when extraction	systems are insta	illed or used.	
measures, such as personal				
protective				
equipment				
10.0	<ul> <li>Safety glasses with side shields.</li> </ul>			
	<ul> <li>Chemical goggles. [AS/NZS 1337.1, El</li> </ul>			
	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			
Eye and face protection	workplace or task. This should include a review of lens absorption and			
-	adsorption for the class of chemicals	in use and an acco	ount 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			
		-		



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	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].			
Skin protection	See Hand protection below			
	Wear chemical protective gloves, e.g. PVC.			
	Wear safety footwear or safety gumboots, e.g. Rubber			
	NOTE:			
	The material may produce skin sensitisation in predisposed			
	individuals. Care must be taken, when removing gloves and other			
	protective equipment, to avoid all possible skin contact.			
	Contaminated leather items, such as shoes, belts and watch-bands			
	should be removed and destroyed			
	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.  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.			
	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 dried thoroughly.			
	Application of a non-perfumed moisturizer is recommended.			
	Suitability and durability of glove type is dependent on usage. Important factors in the			
	selection of gloves include:			
	frequency and duration of contact,			
	chemical resistance of glove material,			
	glove thickness and			
	<ul> <li>dexterity</li> </ul>			
Hands/feet protection	Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1			
	or national equivalent).			
	When prolonged or frequently repeated contact may occur, a glove			
	with a protection class of 5 or higher (breakthrough time greater than			
	240 minutes according to EN 374, AS/NZS 2161.10.1 or national			
	equivalent) is recommended.			
	When only brief contact is expected, a glove with a protection class of 3			
	or higher (breakthrough time greater than 60 minutes according to EN			
	374, AS/NZS 2161.10.1 or national equivalent) is			
	recommended.			
	Some glove polymer types are less affected by movement and this  About the About into account when a considering of these for length to the second seco			
	should be taken into account when considering gloves for long-term			
	use.  • Contaminated gloves should be replaced.			
	·			
	As defined in ASTM F-739-96 in any application, gloves are rated as:			
	Excellent when breakthrough time > 480 min			
	Good when breakthrough time > 20 min			
	Fair when breakthrough time < 20 min			
	Poor when glove material degrades			
	For general applications, gloves with thickness typically greater than 0.35 mm, are			
	recommended.			
	It should be emphasized that glove thickness is not necessarily a good predictor of glove			
	resistance to a specific chemical, as the permeation efficiency of the glove			



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should also be based on consideration of the task requirements and knowledge of breakthrough times. Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers' technical data should always be taken in account to ensure selection of the most appropriate glove for the task.  Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example:  • Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of.  • Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential  • Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.  Experience indicates that the following polymers are suitable as glove materials for protection against undissolved, dry solids, where abrasive particles are not present.  • polychloroprene.  • nitrile rubber.  • butyl rubber.  • poly winyl chloride  • polywinyl chloride  • polywinyl chloride  Gloves should be examined for wear and/ or degradation constantly   See Other protection below  • Overalls.  • P.V.Capron  • Barrier cream.		T		
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<ul> <li>nitrile rubber.</li> <li>butyl rubber .</li> <li>fluor caoutchouc</li> <li>Polu vinyl chloride</li> <li>polyvinyl chloride</li> <li>Gloves should be examined for wear and/ or degradation constantly</li> <li>Body protection</li> <li>See Other protection below</li> <li>Overalls.</li> <li>P.V.Capron</li> <li>Other protection</li> <li>Barrier cream.</li> </ul>		protection against undissolved, dry solids, where abrasive particles are not present.		
butyl rubber .     fluor caoutchouc     Polu vinyl chloride     polyvinyl chloride     Gloves should be examined for wear and/ or degradation constantly      See Other protection below     Overalls.     P.V.Capron     Barrier cream.		polychloroprene.		
fluor caoutchouc     Polu vinyl chloride     polyvinyl chloride     Gloves should be examined for wear and/ or degradation constantly      See Other protection below     Overalls.     P.V.Capron     Barrier cream.		nitrile rubber.		
Polu vinyl chloride     polyvinyl chloride     Gloves should be examined for wear and/ or degradation constantly      See Other protection below     Overalls.     P.V.Capron     Barrier cream.		butyl rubber .		
polyvinyl chloride     Gloves should be examined for wear and/ or degradation constantly      See Other protection below      Overalls.     P.V.Capron     Barrier cream.		fluor caoutchouc		
Gloves should be examined for wear and/ or degradation constantly  See Other protection below  Overalls.  P.V.Capron  Barrier cream.				
Body protection  See Other protection below  Overalls.  P.V.Capron  Barrier cream.		polyvinyl chloride		
Body protection  See Other protection below  Overalls.  P.V.Capron  Barrier cream.				
• P.V.Capron Other protection • Barrier cream.	Body protection	See Other protection below		
Other protection • Barrier cream.		Overalls.		
. Damer deam.		P.V.Capron		
	Other protection	Barrier cream.		
JAIII Gleaning Gleani.		Skin cleansing cream.		
Eye wash unit				

### **Respiratory protection**

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

Required Minimum	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
Protection Factor			
up to 10 x ES	P1	=	PAPR-P1
	Air-line*	-	-
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



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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 G Physical and chemical properties

Appearance	Tan powder; does not m	nix well with water	
Physical state	Divided Solid	Relative density	NotAvailable
		(Water=1)	
Odour	Not Available	Partition coefficient	Not Available
		n-	
		octanol / water	
Odour threshold	Not Available	Auto-ignition	Not Available
		temperature	
		(°C)	
pH (as supplied)	Not Applicable	Decomposition	NotAvailable
	199-202°C	temperature (°C)	
Melting point / freezing point (°C)	133-202 (	Viscosity(cSt)	NotApplicable
Initial boiling point and boiling	Not Applicable		
range (°C)	Not Applicable	Molecular weight	144.57
Flash point (°C)	NotAvailable	(g/mol)	
Evaporation rate	NotAvailable	Taste	NotAvailable
Flammability	NotApplicable	Explosive properties	NotAvailable
Upper Explosive Limit (%)	Not Available	Oxidising properties	NotAvailable
	140th Wallablo	SurfaceTension	NotApplicable
		(dyn/cm	
Lower Explosive Limit (%)	Not Available	or mN/m)	
		Volatile Component	Negligible
Vapour pressure (kPa)	Negligible Partly	(%vol)	
Solubility in water Vapour	miscible Not	Gas group	NotAvailable
density (Air = 1)	Applicable Not	pH as a solution (1%)	NotApplicable
Heat of Combustion (kJ/g) Flame	Available Not	VOC g/L	NotApplicable
Height (cm)	Available	Ignition Distance (cm) Flame Duration (s)	NotAvailable
Enclosed Space Ignition Time			NotAvailable
Equivalent (s/m3)	Not Available	EnclosedSpace	
		Ignition Deflagration	Not Available
		Density (g/m3)	

## SECTION 10 Stability and reactivity

Reactivity	See section 7	
Chemical stability	Unstable in the presence of incompatible materials	
	Product is considered stable	
	Hazardous polymerisation will not occur	
Possibility of hazardous reactions	See section 7	
Conditions to avoid Incompatible	See section 7	
materials Hazardous	See section 7	
decomposition products	See section 5	



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## SECTION 11 Toxicological information

### Information on toxicological effects

	The material can cause respiratory irritation in some persons. The
	body's response to such irritation can cause further lung damage.
	<ul> <li>Persons with impaired respiratory function, airway diseases and conditions</li> </ul>
	such as emphysema or chronic bronchitis, may incur further disability if
Inhaled	excessive concentrations of particulate are inhaled.
	If prior damage to the circulatory or nervous systems has occurred or if
	kidney damage has been sustained, proper screenings should be
	conducted on individuals who may be exposed to further risk if handling
	and use of the material result in excessive exposures
	Accidental ingestion of the material may be harmful; animal experiments
Ingestion	indicate that ingestion of less than 150 gram may be fatal or may produce serious
	damage to the health of the individual.
	There is some evidence to suggest that this material can cause
	inflammation of the skin on contact in some persons. Open cuts, abraded or
	irritated skin should not be exposed to this material.
Skin Contact	<ul> <li>Entry into the blood-stream, through, for example, cuts, abrasions or</li> </ul>
	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.
Eye	This material can cause eye irritation and damage in some persons.
	Long-term exposure to respiratory irritants may result in airways disease,
	involving difficulty breathing and related whole-body problems.
	Skin contact with the material is more likely to cause a
	sensitisation reaction in some persons compared to the general
	population.
Chronic	Substance accumulation, in the human body, may occur and
	may cause some concern following repeated or long-term
	occupational exposure.
	Long term exposure to high dust concentrations may cause changes in
	lung function i.e. pneumoconiosis, caused by particles less than 0.5 micron
	penetrating and remaining in the lung.

2,4-DIAMINO-6-	TOXICITY	IRRITATION	
CHLOROPYRIMIDINE	Oral (Mouse) LD50; 420	Not Available	
	mg/kg <sup>[1]</sup>		
Legend:	1. Value obtained from Eur	1. Value obtained from Europe ECHA Registered Substances - Acute toxicity	
	2. Value obtained from mai	2. Value obtained from manufacturer's SDS. Unless otherwise specified data	
	extracted from RTECS - Re	extracted from RTECS - Register of Toxic Effect of chemical Substances	

	The following information refers to contact allergens as a group and may not be specific to
	this product.
	Contact allergies quickly manifest themselves as contact eczema, more rarely as
	urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-
	mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin
2,4-DIAMINO-6-	reactions, e.g. contact urticaria, involve antibody-mediated immune reactions. The
CHLOROPYRIMIDINE	significance of the contact allergen is not simply determined by its sensitisation
	potential: the distribution of the substance and the opportunities for contact with it are
	equally important. A weakly sensitising substance which is widely distributed can be
	a more important allergen than one with stronger sensitising potential with which few
	individuals come into contact. From a clinical
	point of view, substances are noteworthy if they produce an allergic test reaction



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in more than 1% of the persons tested.

Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non- allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. On the other hand, industrial bronchitis is a disorder that occurs as a result of exposure due to high concentrations of irritating substance (often particles) and is completely reversible after exposure ceases. The disorder is characterized by difficulty breathing, cough and mucus production No significant acute toxicological data identified in literature search.

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

Legand: X - Data either not available or does not fill the criteria for classification

√- Data available to make classification

### **SECTION 12 Ecological information**

### **Toxicity**

2,4-DIAMINO-6- CHLOROPYRIMIDINE	End Point	Test Duration (hr.)	Species	Value	Source
	EC50	96h	Algae or other aquatic plants	6.1mg/l	2
	EC50(ECx)	96h	Algae or other aquatic plants	6.1mg/l	2
	LC50	96h	Fish	290mg/l	2
Legand:	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 c. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data				

DO NOT discharge into sewer or waterways.

### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
2,4-diamino-6-	High	High
chloropyrimidine		



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### Bio accumulative potential

Ingredient	Bioaccumulation
2,4-diamino-6-chloropyrimidine	Low(LogKOW=0.39)

Mobility in soil

Ingredient	Mobility
2,4-diamino-6-chloropyrimidine	LOW (Log KOC = 12.73)

### **SECTION 13 Disposal considerations**

### Waste treatment methods

**Product / Packaging** 

disposal

- Containers may still present a chemical hazard/ danger when empty

  Determine the second containers are contained.

  Output

  Determine the second containers are contained.
- Return to supplier for reuse/ recycling if possible.
- Otherwise:
- If container cannot be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill
- Where possible retain label warnings and SDS and observe all notices pertaining to the product
- Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.
- A Hierarchy of Controls seems to be common the user should investigate:
- Reduction
- Reuse
- Recycling
- Disposal (if all else fails)
- This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate. In most instances the supplier of the material should be consulted.
- DO NOT allow wash water from cleaning or process equipment to enter drains.
- It may be necessary to collect all wash water for treatment before disposal.
- In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- Where in doubt contact the responsible authority.

### **SECTION 14 Transport information**

### **Labels Required**

Marine Pollutant	No

 $Land transport (UN):\ NOT\ REGULATED\ FOR\ TRANSPORT\ OF\ DANGEROUS\ GOODS$ 

Air transport (ICAO-IATA/ DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Seatransport (IMDG-Code/ GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS



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### 14.7.1 Transport in bulk in accordance to Annex II of MARPOL and the IBC Code

NotApplicable

### $14.7.2\ Transport\,in\,bulk\,in\,accordance\,with\,MARPOL\,Annex\,V\,and\,the\,IMSBC\,Code$

Product Name	Ship Type
2,4-diamino-6-chloropyrimidine	Not Available

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

Product Name	Ship Type
2,4-diamino-6-chloropyrimidine	Not Available

### SECTION 15 Regulatory information

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

2,4-diamino-6-chloropyrimidine is found on the following regulatory lists

Not Applicable

### Additional Regulatory Information

Not Applicable

### National Inventory Status

National Inventory	Status		
Australia - AIIC / Australia Non-	No (2,4-Diamino-6-chloropyrimidine)		
Industrial Use			
Canada - DSL	Yes		
Canada - NDSL	No (2,4-Diamino-6-chloropyrimidine)		
China - IECSC	No (2,4-Diamino-6-chloropyrimidine)		
Europe-EINEC/ELINCS/ NLP	Yes		
Japan - ENCS	Yes		
Korea - KECI	Yes		
New Zealand - NZIoC	Yes		
Philippines - PICCS	No (2,4-Diamino-6-chloropyrimidine)		
USA-TSCA	No (2,4-Diamino-6-chloropyrimidine)		
Taiwan-TCSI	Yes		
Mexico - INSQ	No (2,4-Diamino-6-chloropyrimidine)		
Vietnam - NCI	Yes		
Russia - FBEPH	No (2,4-Diamino-6-chloropyrimidine)		
	Yes = All CAS declared ingredients are on the inventory		
Legend:	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	08/01/2021
Initial Date	12/05/2005

### SDS Version Summary:

Version	Date of Update	Sections Updated
5.1	08/01/2021	Hazards identification - Classification, Disposal considerations
		- Disposal, Handling and storage - Storage (storage
		requirement), Identification of the substance /
		mixture and of the company / undertaking - Use

### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources.



### 2,4-DIAMINO-6-CHLOROPYRIMIDINE

Revision Date: 07-10-25 Revision Number: 6.1

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.

#### **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

 ${\sf NOAEL: No\ Observed\ Adverse\ Effect\ Level\ LOAEL:}$ 

Lowest Observed Adverse Effect Level TLV:

Threshold Limit Value

LOD: Limit Of Detection OTV:

Odour Threshold Value

BCF: Bio Concentration Factors BEI: Biological Exposure Index DNEL:

Derived No-Effect Level

PNEC: Predicted no-effect concentration

MARPOL: International Convention for the Prevention of Pollution from Ships IMSBC:

International Maritime Solid Bulk Cargoes Code IGC: International Gas Carrier Code IBC:

International Bulk Chemical Code

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

This Material Safety Data Sheet (MSDS) has been prepared in accordance with our company standards and is intended solely for the use of trained personnel. The information provided herein is believed to be accurate as of the date of issue, but no warranty, express or implied, is made regarding its accuracy, completeness, or suitability for any particular purpose. The user is responsible for ensuring safe conditions and compliance with applicable laws and regulations.