

4-CHLORO-2,6-DIAMINOPYRIMIDINE

Revision Date: 08-01-21 Revision Number: 5.1

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

4-CHLORO-2,6-DIAMINOPYRIMIDINE **Product Name Chemical Name** Not Available Synonyms C4-H5-Cl-N4; pyrimidine, 2,6-diamino-4-chloro-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 4,6-disubstituted 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	
	anti-platelet aggregation activity. Certain aminopyrimidine heterocyclic compound show an	
	adenosine receptor antagonism whilst others are inhibitors of EGFR (epidermal growth	
	factor receptors).	
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	
	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	Not Available	
Fax	Not Available	
Website	Not Available	
Email	Not Available	



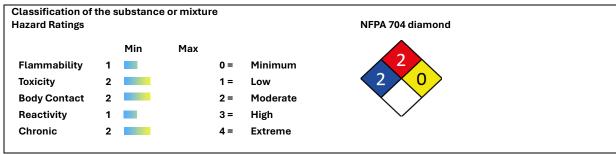
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Emergency telephone number:

Association / Organisation	Cohizon Life Sciences Limited	
Emergency telephone	(+91) 7046611150/51	
number(s)	(131) 7040011130/31	
Other emergency telephone	(101) 6257604004	
number(s)	(+91) 6357684904	

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

Label elements



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

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	4-chloro-2,6-diaminopyrimidine

Mixtures

See Section above for composition of substances

SECTION 4 First aid measures

Description of first aid measures

Description of first and measures		
If this product comes in contact with the eyes:		
Eye Contact	Wash out immediately with fresh running water.	
	 Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. 	
	 Seek medical attention without delay; if pain persists or recurs seek medical attention. 	
	Removal of contact lenses after an eye injury should only be undertaken by	
	skilled personnel.	
	If skin or hair contact occurs:	
Skin Contact	Immediately remove all contaminated clothing, including footwear.	
SKIII COIII.	Flush skin and hair with running water (and soap if available	
	Seek medical attention in event of irritation	
	If fumes or combustion products are inhaled remove from contaminated area.	
	Lay patient down. Keep warm and rested.	
	Prostheses such as false teeth, which may block airway, should be removed,	
Inhalation	where possible, prior to initiating first aid procedures.	
aution	Apply artificial respiration if not breathing, preferably with a demand valve	
	resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if	
	necessary.	
	Transport to hospital, or doctor, without delay.	
	IF SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE,	
	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	
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 courses Use water delivered as a fine spray to control fire and cool adjacent area 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
Fire/Explosion Hazard	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). 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 - MIL) 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 or dusts. A dust explosion may release of large quantities of gaseous produ



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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.
•	May emit
	poisonous fumes.

May emit corrosive fumes

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	Remove all ignition sources.		
	Clean up all spills immediately.		
	Avoid contact with skin and eyes.		
	Control personal contact with the substance, by using protective equipment.		
	Use dry clean up procedures and avoid generating dust.		
	Place in a suitable, labelled container for waste disposal.		
	Moderate hazard.		
	CAUTION: Advise personnel in area.		
	 Alert Emergency Services and tell them the location and nature of hazard. 		
	 Control personal contact by wearing protective clothing. 		
	 Prevent, by any means available, spillage from entering drains or water courses. 		
Majar 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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	 Do NOT cut, drill, grind or weld such containers. In addition ensure such activity is not performed near full, partially empty or empty containers without appropriate workplace safety authorization or permit. 	
Other information	 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. 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 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 • Avoid reaction with oxidising agents		

Control Parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Not Available

Ingredient	Original IDLH	Revised IDLH
4-chloro-2,6-	Not Available	Not Available
diaminopyrimidine		
Notes:	bands based on a chemical's pote The output of this process is an oc	a process of assigning chemicals into specific categories or ency and the adverse health outcomes associated with exposure. cupational exposure band (OEB), which corresponds to a range e expected to protect worker health.

Occupational Exposure Banding:

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit		
4-CHLORO-2,6- DIAMINOPYRIMIDINE	D	D $> 0.01 \text{ to } \le 0.1 \text{ mg/m}^3$		
Notes:	specific categories or bands based health outcomes associated with ex occupational exposure band (OEB)	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		

Exposure controls

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.



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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 is some situations. • Provide adequate ventilation in warehouse or closed storage area. A contaminants generated in the workplace possess varying "escaped velocities which, in turn, determine the "capture velocities" of frest circulating air required to effectively remove the contaminant		designed ch the particular vers may need to verexposure. verexposure al to obtain be required to ensure sA) may be required in ed storage area. Air ss varying "escape" velocities" of fresh
	Type of Contaminant		Air Speed
	direct spray, spray painting in shallow booth	ne drum filling	•
		scharge (active	1-2.5 m/s (200- 500
	generation into zone of rapid air motion)	ocharge (active	ft/min)
	grinding, abrasive blasting, tumbling, high	sneed wheel	,
	generated dusts (released at high initial velocity		2.5-10 m/s (500- 2000 ft/min)
	very high rapid air motion).	only 11100 20110 01	2000 10111111)
	Which each range the appropriate value depo	ends on	
	Lower end of the range	Upper end of the	range
	Room air currents minimal or favourable	1. Disturbing roo	om air currents
	to capture		
	2. Contaminants of low toxicity or of	2: Contaminants	s of high toxicity
	nuisance value only 3. Intermittent, low production	3: High producti	on heavy use
	4. Large hood or large air mass in motion	4: Small hood-lo	
	Simple theory shows that air velocity		-
	the opening of a simple extraction pi	· · ·	-
	the square of distance from the extra		-
	Therefore, the air speed at the extra		
	accordingly, after reference to distar	•	•
	The air velocity at the extraction fan		
	of 4-10 m/s (800-2000 ft/min) for ext	raction of crushe	r dusts generated 2
	metres distant from the extraction pe	oint. Other mecha	anical
	considerations, producing performa	nce deficits withi	n the extraction
	apparatus, make it essential that the	oretical air veloci	ties are multiplied by
	factors of 10 or more when extraction systems are installed or used.		
Individual protection			
measures, such as personal			
protective			
equipment	9		
	 Safety glasses with side shields. Chemical goggles. [AS/NZS 1337.1,] Contact lenses may pose a special h 	nazard; soft conta	ct 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 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		
	<u>-</u>		



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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
Hands/feet protection	dexterity
	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
	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
	7
	Poor when glove material degrades For general applications, gloves with thickness typically greater than 0.35 mm, are
	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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selection 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 and the glove model. Therefore, the manufacturers' technical data should alwe taken into account to ensure selection of the most appropriate glove for the tas Note: Depending on the activity being conducted, gloves of varying thickness in be required for specific tasks. For example: • Thinner gloves (down to 0.1 mm or less) may be required where a his degree of manual dexterity is needed. However, these gloves are on 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 mechanical (as well as a chemical) risk i.e. where there is abrasion upuncture potential • Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfunding moisturiser is recommended. Experience indicates that the following polymers are suitable as glove material protection against undissolved, dry solids, where abrasive particles are not present in the following polymers are suitable as glove material protection against undissolved, dry solids, where abrasive particles are not present in the following polymers are suitable as glove material protection against undissolved, dry solids, where abrasive particles are not present in the following polymers are suitable as glove material protection against undissolved, dry solids, where abrasive particles are not present in the following polymers are suitable as glove material protection against undissolved, dry solids, where abrasive particles are not present as a polymer and the following polymers are suitable as glove material protection against undissolved, dry solids, where abrasive particles are not present as a polymer and the following polymers are suitable as glove material protection as a polymer and the			
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Overalls. P.V.C apron		Gloves should be examined for wear and/ or degradation constantly	
P.V.C apron	Body protection	See Other protection below	
Other protection		Overalls.	
Other protection		P.V.C apron	
Barrier cream.	Other protection	Barrier cream.	
Skin cleansing cream.		Skin cleansing cream.	
Eye wash unit		Eye wash unit	

Respiratory protection

Type -P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 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 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Tan powder; does not mix well with water		
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 Applicable	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	199-202°C	Viscosity (cSt)	Not Applicable
initial boiling point and boiling range (°C)	Not Applicable	Molecular weight (g/mol)	144.57
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Applicable	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)	Negligible
Vapour pressure (kPa)	Negligible	Gas group	Not Available
Solubility in water	Partly miscible	pH as a solution (1%)	Not Applicable
Vapour density (Air = 1)	Not Applicable	VOC g/L	Not Applicable
Heat of Combustion (kJ/g)	Not Available	Ignition Distance (cm)	Not Available
Flame Height (cm)	Not Available	Flame Duration (s)	Not Available
Enclosed Space Ignition Time		Enclosed Space	
Equivalent (s/m3)	Not Available	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	See section 7
Incompatible materials	See section 7
Hazardous 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.
	 Persons with impaired respiratory function, airway diseases and
	conditions such as emphysema or chronic bronchitis, may incur further
Inhaled	disability if 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	Entry into the blood-stream, through, for example, cuts, abrasions or
	lesions, may produce systemic injury with harmful effects.
	Examine the skin prior to the use of the material and ensure that any
	external damage is suitably protected.
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.

4-CHLORO-2,6-	TOXICITY	IRRITATION	
DIAMINOPYRIMIDINE	Oral (Mouse) LD50; 420	Not Available	
	mg/kg ^[1]		
Legend:	1. Value obtained from Eur	ope 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	

	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
4-CHLORO-2,6-	allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune
DIAMINOPYRIMIDINE	reactions. The 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 STOT - Repeated Exposure sensitisation Aspiration Hazard Mutagenicity **Legand:** X − Data either not available or does not fill the criteria for classification

SECTION 12 Ecological information

✓– Data available to make classification

4-CHLORO-2,6- DIAMINOPYRIMIDINE	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 6. 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
4-chloro-2,6-	High	High
diaminopyrimidine		



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Bio accumulative potential

Ingredient	Bioaccumulation
4-chloro-2,6-	Low (Log KOW = 0.39)
diaminopyrimidine	

Mobility in soil

Ingredient	Mobility
4-chloro-2,6-	LOW (Log KOC = 12.73)
diaminopyrimidine	

SECTION 13 Disposal considerations

Waste treatment methods

Product / Packaging

disposal

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

Sea transport (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

Not Applicable

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

Product Name	Ship Type
4-chloro-2,6-	Not Available
diaminopyrimidine	

14.7.3 Transport in bulk in accordance with the IGC Code

Product Name	Ship Type	
4-chloro-2,6-	Not Available	
diaminopyrimidine		

SECTION 15 Regulatory information

${\bf Safety, health\ and\ environmental\ regulations\ /\ legislation\ specific\ for\ the\ substance\ or\ mixture}$

4-chloro-2,6-diaminopyrimidine is found on the following regulatory lists

Not Applicable

Additional Regulatory Information

Not Applicable

National Inventory Status

National inventory Status			
National Inventory	Status		
Australia - AIIC / Australia Non-	No (4-chloro-2,6-diaminopyrimidine)		
Industrial Use			
Canada - DSL	Yes		
Canada - NDSL	No (4-chloro-2,6-diaminopyrimidine)		
China - IECSC	No (4-chloro-2,6-diaminopyrimidine)		
Europe - EINEC / ELINCS / NLP	Yes		
Japan - ENCS	Yes		
Korea - KECI	Yes		
New Zealand - NZIoC	Yes		
Philippines - PICCS	No (4-chloro-2,6-diaminopyrimidine)		
USA - TSCA	No (4-chloro-2,6-diaminopyrimidine)		
Taiwan - TCSI	Yes		
Mexico - INSQ	No (4-chloro-2,6-diaminopyrimidine)		
Vietnam - NCI	Yes		
Russia - FBEPH	No (4-chloro-2,6-diaminopyrimidine)		
	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		
Logona.	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.



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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

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

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