

Apollo Scientific

Part Number: **OR14919** Version No: **1.1** Safety Data Sheet (Conforms to Annex II of REACH (1907/2006) - Regulation 2020/878) Chemwatch Hazard Alert Code: 2

Issue Date: **15/05/2022** Print Date: **02/08/2023** S.REACH.GBR.EN

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

1.1. Product Identifier

Product name	3,5-Dimethyl-1-(4-isocyanatophenyl)-1H-pyrazole	
Chemical Name	-(4-Isocyanatophenyl)-3,5-dimethyl-1H-pyrazole	
Synonyms	Not Available	
Proper shipping name	ISOCYANATE SOLUTION, TOXIC, N.O.S.; ISOCYANATES, TOXIC, N.O.S.	
Chemical formula	Not Available	
Other means of identification	Not Available	
CAS number	937796-04-8*	

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

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

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

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

1.4. Emergency telephone number

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

SECTION 2 Hazards identification

2.1. Classification of the substance or mixture

 Classification according to regulation (EC) No
 H334 - Sensitisation (Respiratory) Category 1, H312 - Acute Toxicity (Dermal) Category 4, H332 - Acute Toxicity (Inhalation)

 1272/2008 [CLP] and amendments ^[1]
 Category 4, H302 - Acute Toxicity (Oral) Category 4

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

2.2. Label elements

Hazard pictogram(s)	
0 ¹ ···· · · 1 ··· · · · · · ·	Description

Signal word Danger

Hazard statement(s)

H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
H312	Harmful in contact with skin.	
H332	Harmful if inhaled.	
H302	Harmful if swallowed.	

Supplementary statement(s)

Not Applicable

Precautionary statement(s) Prevention

P261	Avoid breathing dust/fumes.
P271	Use only outdoors or in a well-ventilated area.
P284	[In case of inadequate ventilation] wear respiratory protection.
P264	Wash all exposed external body areas thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves and protective clothing.

Precautionary statement(s) Response

P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor/physician/first aider.
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.

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

2.3. Other hazards

Inhalation and/or ingestion may produce health damage*.

REACH - Art.57-59: The mixture does not contain Substances of Very High Concern (SVHC) at the SDS print date.

SECTION 3 Composition / information on ingredients

3.1.Substances

1. CAS No 2.EC No 3.Index No 4.REACH No	%[weight]	Name	Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	SCL / M-Factor	Nanoform Particle Characteristics
Not Available	100	3,5-Dimethyl- 1-(4-isocyanatophenyl)- 1H-pyrazole	Not Applicable	Not Applicable	Not Available

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

3.2.Mixtures

See 'Information on ingredients' in section 3.1

SECTION 4 First aid measures

4.1. Description of first aid measures

Eye Contact	 If this product comes in contact with the eyes: 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.
Skin Contact	 If skin or hair contact occurs: Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Inhalation	 If fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor.
Ingestion	 If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

See Section 11

4.3. Indication of any immediate medical attention and special treatment needed

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.
- Positive-pressure 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

Continued...

3,5-Dimethyl-1-(4-isocyanatophenyl)-1H-pyrazole

SECTION 5 Firefighting measures

5.1. Extinguishing media

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

5.2. Special hazards arising from the substrate or mixture

5.2. Special hazards arising from the substrate or mixture					
Fire Incompatibility	V None known.				
5.3. Advice for firefighter	S				
Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses. Use fire fighting procedures suitable for surrounding 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. Moderate fire hazard when exposed to heat or flame. When heated to high temperatures decomposes rapidly depending vapour which pressures and may then runture containers. 				

	- When heated to high temperatures decomposes rapidly generating vapour which pressures and may then rupture containers
	with release of flammable and highly toxic isocyanate vapour.
	- Burns with acrid black smoke and poisonous fumes.
Fire/Explosion Hazard	- Due to reaction with water producing CO2-gas, a hazardous build-up of pressure could result if contaminated containers are
	re-sealed.

- Combustion yields traces of highly toxic hydrogen cyanide HCN, plus toxic nitrogen oxides NOx and carbon monoxide.
Decomposition may produce toxic fumes of:

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

nitrogen oxides (NOx)

See section 8

6.2. Environmental precautions

See section 12

6.3. 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.
Major Spills	 Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course. Stop leak if safe to do so. Contain spill with sand, earth or vermiculite. Collect recoverable product into labelled containers for recycling. Neutralise/decontaminate residue (see Section 13 for specific agent). Collect solid residues and seal in labelled drums for disposal. Wash area and prevent runoff into drains. After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using. If contamination of drains or waterways occurs, advise emergency services. For isocyanate spills of less than 40 litres (2 m2): Evacuate area from everybody not dealing with the emergency, keep them upwind and prevent further access, remove ignition sources and, if inside building, ventilate area as well as possible. Notify supervision and others as necessary. Put on personal protective equipment (suitable respiratory protection, face and eye protection, protective suit, gloves and impermeable boots). Control source of leakage (where applicable). Dike the spill to prevent spreading and to contain additions of decontaminating solution. Prevent the material from entering drains.

 Estimate spill pool volume or area. Absorb and decontaminate Completely cover the spill with wet sand, wet earth, vermiculite or other similar absorbent Add neutraliser (for suitable formulations: see below) to the adsorbent materials (equal to that of estimated spill pool volume). Intensify contact between spill, absorbent and neutraliser by carefully mixing with a rake and allow to react for 15 minutes Shovel absorbent/decontaminant solution mixture into a steel drum. Decontaminate surface Pour an equal amount of neutraliser solution over contaminated surface Scrub area with a stiff bristle brush, using moderate pressure Completely cover decontaminant with vermiculite or other similar absorbent After 5 minutes, shovel absorbent/decontamination solution mixture into the same steel drum used above. Monitor for residual isocyanate. If surface is decontaminated, proceed to next step. If contamination persists, repeat decontaminate procedure immediately above Place loosely covered drum (release of carbon dioxide) outside for at least 72 hours. Label waste-containing drum appropriately. Remove waste materials for incineration. Decontaminate and remove personal protective equipment. Return to normal operation. Conduct accident investigation and consider measures to prevent reoccurrence.
Decontamination: Treat isocyanate spills with sufficient amounts of isocyanate decontaminant preparation ("neutralising fluid"). Isocyanates and polyisocyanates are generally not miscible with water. Liquid surfactants are necessary to allow better dispersion of isocyanate and neutralising fluids/ preparations. Alkaline neutralisers react faster than water/surfactant mixtures alone. Typically, such a preparation may consist of: Sawdust: 20 parts by weight Kieselguhr 40 parts by weight plus a mixture of {ammonia (s.g. 0.880) 8% v/v non-ionic surfactant 2% v/v water 90% v/v}. Let stand for 24 hours Three commonly used neutralising fluids each exhibit advantages in different situations. Formulation A : liquid surfactant 0.2-2% sodium carbonate 5-10% water to 100% Formulation B liquid surfactant 0.2-2% concentrated ammonia 3-8% water to 100% Formulation C ethanol, isopropanol or butanol 50%
concentrated ammonia 5%
water to 100%
After application of any of these formulae, let stand for 24 hours.
Formulation B reacts faster than Formulation A. However, ammonia-based neutralisers should be used only under well-ventilated
conditions to avoid overexposure to ammonia or if members of the emergency team wear suitable respiratory protection.
Formulation C is especially suitable for cleaning of equipment from unreacted isocyanate and neutralizing under freezing
conditions. Regard has to be taken to the flammability of the alcoholic solution.

6.4. Reference to other sections

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

SECTION 7 Handling and storage

7.1. Precautions for safe handling

 Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. DO NOT enter confined spaces until atmosphere has been checked. DO NOT allow material to contact humans, exposed food or food utensils. Avoid contact with incompatible materials. 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. Launder contaminated clothing before re-use. Use good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this SDS. Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.
See section 5

accordance with

Regulation (EC) No 1272/2008

Not Available

3,5-Dimethyl-1-(4-isocyanatophenyl)-1H-pyrazole

Store in original containers. Keep containers securely sealed.

Other information	 Keep containers securely sealed. Store in a cool, dry, well-ventilated area. 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.
.2. Conditions for safe s	torage, including any incompatibilities
Suitable container	 Lined metal can, lined metal pail/ can. Plastic pail. Polyliner drum. Packing as recommended by manufacturer. Check all containers are clearly labelled and free from leaks. For low viscosity materials Drums and jerricans must be of the non-removable head type. Where a can is to be used as an inner package, the can must have a screwed enclosure. For materials with a viscosity of at least 2680 cSt. (23 deg. C) and solids (between 15 C deg. and 40 deg C.): Removable head packaging; Cans with friction closures and low pressure tubes and cartridges may be used. Where combination packages are used, and the inner packages are of glass, there must be sufficient inert cushioning material in contact with inner and outer packages *. In addition, where inner packagings are glass and contain liquids of packing group I and II there must be sufficient inert absorbent to absorb any spillage *. * unless the outer packaging is a close fitting moulded plastic box and the substances are not incompatible with the plastic.
Storage incompatibility	None known Avoid reaction with water, alcohols and detergent solutions. Isocyanates are electrophiles, and as such they are reactive toward a variety of nucleophiles including alcohols, amines, and even water. Upon treatment with an alcohol, an isocyanate forms a urethane linkage. If a di-isocyanate is treated with a compound containing two or more hydroxyl groups, such as a diol or a polyol, polymer chains are formed, which are known as polyurehanes. Reaction between a di-isocyanate and a compound containing two or more amine groups, produces long polymer chains known as polyureas. Isocyanates and thioisocyanates are incompatible with many classes of compounds, reacting exothermically to release toxic gases. Reactions with amines, strong bases, aldehydes, alcohols, alkali metals, kteones, mercaptans, strong oxidisers, hydrides, phenols, and peroxides can cause vigorous releases of heat. Acids and bases initiate polymerisation reactions in these materials. Isocyanates participate in Diels-Alder reactions, functioning as dienophiles Isocyanates participate in Diels-Alder reactions, functioning as dienophiles Socyanates easily form adducts with carbodlimides, isothiocyanates, ketenes, or with substrates containing activated CC or CN bonds. Some isocyanates react with water to form amines and liberate carbon dioxide. This reaction may also generate large volumes of foam and heat. Foaming spaces may produce pressure in confined spaces or containers. Gas generation may pressurise drums to the point of rupture. Do NOT reseal container if contamination is expected Open all containers with care sace-catalysed reactions of isocyanates with alcohols should be carried out in inert solvents. Such reactions in the absence of solvents often occur with explosive violence, lsocyanates will attack and embrittle some plastics and rubbers. The behavior and chemical properties of the several pseudohalides are identical to that of the true halide ions. A range of exothermic decomposition energies for isocyanates is given as 20-30 k
Hazard categories in	

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3,5-Dimethyl-1-(4-isocyanatophenyl)-1H-pyrazole

Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of

Not Available

7.3. Specific end use(s)

See section 1.2

SECTION 8 Exposure controls / personal protection

8.1. Control parameters

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

* Values for General Population

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Not Available						

Not Applicable

Emergency Limits

Ingredient	TEEL-1	TEEL-2		TEEL-3
3,5-Dimethyl- 1-(4-isocyanatophenyl)- 1H-pyrazole	Not Available	Not Available		Not Available
Ingredient	Original IDLH		Revised IDLH	
3,5-Dimethyl- 1-(4-isocyanatophenyl)- 1H-pyrazole)- Not Available		Not Available	

8.2. Exposure controls

8.2.1. Appropriate engineering controls	 Engineering controls are used to remove a hazard or place engineering controls can be highly effective in protecting w provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job acti Enclosure and/or isolation of emission source which keeps that strategically "adds" and "removes" air in the work envir designed properly. The design of a ventilation system must Employers may need to use multiple types of controls to prostate regulations (AS/NZS 4114, UNI EN 12215:2010, // • Local exhaust ventilation with full face positive-pressure • Spraying of material or material in a spray booth fitted we environmental legislation. • The spray booth area must be isolated from unprotected has cleared. NOTE: Isocyanate vapours will not be adequately absorber workplace possess varying "escape" velocities which, in tu effectively remove the contaminant. 	orkers and will typically be independent of w vity or process is done to reduce the risk. a selected hazard "physically" away from the ronment. Ventilation can remove or dilute an match the particular process and chemical of event employee overexposure. components must be carried out in condition ANSI/AIHA Z9.3–2007 or national equivalent e air supplied breathing apparatus (hood or h ith an effective exhaust system which compli- d personnel whilst spraying is in progress ar d by organic vapour respirators. Air contamir	e worker and ventilation air contaminant if or contaminant in use. hs conforming to local c). helmet type) is required. ies with local hd until all spraying mist hants generated in the
	Type of Contaminant:	Air Speed:	
	direct spray, spray painting in shallow booths, drum filling discharge (active generation into zone of rapid air motion	1-2.5 m/s (200-500 f/min.)	
Within each range the appropriate value depends on:			
	Lower end of the range	Upper end of the range	
	1: Room air currents minimal or favourable to capture 1: Disturbing room air currents		

	2: Contaminants of low toxicity or of nuisance value only	2: Contaminants of high toxicity		
	3: Intermittent, low production.	3: High production, heavy use		
	4: Large hood or large air mass in motion 3: Small hood-local control only 4: Small hood-local control only Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point should be adjusted, accordingly, after reference distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 4-10 r (800-2000 f/min.) for extraction of solvents generated by spraying at a point 2 meters distant from the extraction point. Oth mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretic velocities are multiplied by factors of 10 or more when extraction systems are installed or used.			
8.2.2. Individual protection measures, such as personal protective equipment	al protective			
Eye and face protection	document, describing the wearing of lenses or restriction include a review of lens absorption and adsorption for th Medical and first-aid personnel should be trained in their event of chemical exposure, begin eye irrigation immedia be removed at the first signs of eye redness or irritation have washed hands thoroughly. [CDC NIOSH Current In	lenses may absorb and concentrate irritants. A written policy ns on use, should be created for each workplace or task. This should be class of chemicals in use and an account of injury experience. If removal and suitable equipment should be readily available. In the ately and remove contact lens as soon as practicable. Lens should - lens should be removed in a clean environment only after workers		
Skin protection	See Hand protection below	e material, but also on further marks of quality which vary from		
Hands/feet protection	can not be calculated in advance and has therefore to be ch The exact break through time for substances has to be obtar observed when making a final choice. Personal hygiene is a key element of effective hand care. G should be washed and dried thoroughly. Application of a nor Suitability and durability of glove type is dependent on usage frequency and duration of contact, chemical resistance of glove material, glove thickness and dexterity Select gloves tested to a relevant standard (e.g. Europe EN When prolonged or frequently repeated contact may occur greater than 240 minutes according to EN 374, AS/NZS 216 When only brief contact is expected, a glove with a protect according to EN 374, AS/NZS 2161.10.1 or national equival Some glove polymer types are less affected by movement long-term use. Contaminated gloves should be replaced. As defined in ASTM F-739-96 in any application, gloves are 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 a thickness typically gr It should be emphasised that glove thickness is not necessar permeation efficiency of the glove will be dependent on the de should also be based on consideration of the task requirement Glove thickness may also vary depending on the glove mani- manufacturers technical data should always be taken into ad Note: Depending on the activity being conducted, gloves of Thinner gloves (down to 0.1 mm or less) may be required when is abrasion or puncture potential Gloves must only be worn on clean hands. After using glover non-perfumed moisturiser is recommended. Wear chemical protective gloves, e.g. PVC.	ined from the manufacturer of the protective gloves and has to be loves must only be worn on clean hands. After using gloves, hands n-perfumed moisturiser is recommended. e. Important factors in the selection of gloves include: 374, US F739, AS/NZS 2161.1 or national equivalent). , a glove with a protection class of 5 or higher (breakthrough time 51.10.1 or national equivalent) is recommended. ion class of 3 or higher (breakthrough time greater than 60 minutes ent) is recommended. and this should be taken into account when considering gloves for rated as:		
Rody protostics	 Wear safety footwear or safety gumboots, e.g. Rubber See Other protection below 			
Body protection Other protection	See Other protection below Overalls. Eyewash unit. Barrier cream. Skin cleansing cream.			

Respiratory protection

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

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

* - Negative pressure demand ** - Continuous flow

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

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

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

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

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

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

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

 \cdot Try to avoid creating dust conditions.

8.2.3. Environmental exposure controls

See section 12

SECTION 9 Physical and chemical properties

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9.1. Information on basic physical and chemical properties

Appearance	Not Available		
Physical state	Divided Solid	Relative density (Water = 1)	Not Available
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Applicable
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Not Available	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available
Nanoform Solubility	Not Available	Nanoform Particle Characteristics	Not Available

Particle Size Not Available

9.2. Other information

Not Available

SECTION 10 Stability and reactivity

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

SECTION 11 Toxicological information

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

Inhaled	The material is not thought to produce respiratory inhalation of dusts, or fumes, especially for prolor Inhalation of dusts, generated by the material dur individual. Persons with impaired respiratory function, airway further disability if excessive concentrations of pa If prior damage to the circulatory or nervous syste should be conducted on individuals who may be e exposures.	nged periods, may produce re ing the course of normal hand y diseases and conditions suc rticulate are inhaled. ems has occurred or if kidney	spiratory discomfort and occasionally, distress. lling, may be damaging to the health of the h as emphysema or chronic bronchitis, may incur damage has been sustained, proper screenings
Ingestion	Accidental ingestion of the material may be dama	ging to the health of the indiv	dual.
Skin Contact	The material is not thought to produce adverse he using animal models). Nevertheless, good hygien be used in an occupational setting. Open cuts, abraded or irritated skin should not be Entry into the blood-stream, through, for example Examine the skin prior to the use of the material a	e practice requires that expose e exposed to this material , cuts, abrasions or lesions, m	aver be kept to a minimum and that suitable gloves
Eye	Although the material is not thought to be an irrita transient discomfort characterised by tearing or co		ves), direct contact with the eye may cause indburn). Slight abrasive damage may also result.
Chronic	Long-term exposure to the product is not thought using animal models); nevertheless exposure by Long term exposure to high dust concentrations r less than 0.5 micron penetrating and remaining in	all routes should be minimise nay cause changes in lung fu	
3,5-Dimethyl- 1-(4-isocyanatophenyl)-	ΤΟΧΙΟΙΤΥ	IRRITATION	l
1H-pyrazole	Not Available	Not Availabl	e
Legend:	1. Value obtained from Europe ECHA Registered Unless otherwise specified data extracted from F		
3,5-Dimethyl- 1-(4-isocyanatophenyl)- 1H-pyrazole	Isocyanate vapours are irritating to the airways ar loss of consciousness and fluid in the lungs. Nerv euphoria, inco-ordination, anxiety, depression and	ous system symptoms that m	
Acute Toxicity	✓	Carcinogenic	ty 🗙
Skin Irritation/Corrosion	×	Reproductiv	ty 🗙
Serious Eye Damage/Irritation	×	STOT - Single Exposu	re 🗙
•			

Legend:

Mutagenicity 🗙

Aspiration Hazard

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

×

11.2 Information on other hazards

11.2.1. Endocrine disrupting properties

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

11.2.2. Other information

See Section 11.1

SECTION 12 Ecological information

12.1. Toxicity

3,5-Dimethyl-	Endpoint	Test Duration (hr)	Species	Value	Source
1-(4-isocyanatophenyl)- 1H-pyrazole	Not Available	Not Available	Not Available	Not Available	Not Available
Legend:	4. US EPA, E	· · ·	Registered Substances - Ecotoxicological Info ETOC Aquatic Hazard Assessment Data 6. I Data 8. Vendor Data		

DO NOT discharge into sewer or waterways.

12.2. Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air		
	No Data available for all ingredients	No Data available for all ingredients		

12.3. Bioaccumulative potential

Ingredient	Bioaccumulation
	No Data available for all ingredients

12.4. Mobility in soil

Ingredient	Mobility
	No Data available for all ingredients

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

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

SECTION 13 Disposal considerations

13.1. Waste treatment methods

Product / Packaging

ing Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws

disposal	 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. Recycle wherever possible or consult manufacturer for recycling options. Consult State Land Waste Management Authority for disposal. Bury residue in an authorised landfill. Recycle containers if possible, or dispose of in an authorised landfill.
Waste treatment options	Not Available
Sewage disposal options	Not Available

SECTION 14 Transport information

Labels Required

	6
Marine Pollutant	NO
HAZCHEM	2X

Land transport (ADR-RID)

14.1. UN number or ID number	2206			
14.2. UN proper shipping name	ISOCYANATE SO	LUTION, TOXIO	C, N.O.S.; IS	DCYANATES, TOXIC, N.O.S.
14.3. Transport hazard	Class	6.1		
class(es)	Subsidiary risk	Not Applicab	le	
14.4. Packing group	ш			
14.5. Environmental hazard	Not Applicable			
	Hazard identifica	ation (Kemler)	60	
	Classification co	de	T1	
14.6. Special precautions	Hazard Label		6.1	
for user	Special provision	าร	274 551	
	Limited quantity		5 L	
	Tunnel Restriction	on Code	2 (E)	

Air transport (ICAO-IATA / DGR)

14.1. UN number	2206	
14.2. UN proper shipping name	Isocyanates, toxic, n.o.s	. *; Isocyanate solu
	ICAO/IATA Class	6.1
14.3. Transport hazard class(es)	ICAO / IATA Subrisk	Not Applicable
0,000(00)	ERG Code	6L
14.4. Packing group	Ш	

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14.5. Environmental hazard	Not Applicable			
	Special provisions	A3		
14.6. Special precautions for user	Cargo Only Packing Instructions			
	Cargo Only Maximum Qty / Pack			
	Passenger and Cargo Packing Instructions	655		
	Passenger and Cargo Maximum Qty / Pack	60 L		
	Passenger and Cargo Limited Quantity Packing Instructions			
	Passenger and Cargo Limited Maximum Qty / Pack	2 L		

Sea transport (IMDG-Code / GGVSee)

14.1. UN number	2206		
14.2. UN proper shipping name	ISOCYANATES, TOXIC, N.O.S. or ISOCYANATE SOLUTION, TOXIC, N.O.S.		
14.3. Transport hazard class(es)	IMDG Class	6.1	
	IMDG Subrisk	Not Applicable	
14.4. Packing group	Ш		
14.5. Environmental hazard	Not Applicable		
14.6. Special precautions for user	EMS Number	F-A, S-A	
	Special provisions	223 274	
	Limited Quantities	5 L	

Inland waterways transport (ADN)

14.1. UN number	2206		
14.2. UN proper shipping name	ISOCYANATE SOLUTION, TOXIC, N.O.S.; ISOCYANATES, TOXIC, N.O.S.		
14.3. Transport hazard class(es)	6.1 Not Applicable		
14.4. Packing group	III		
14.5. Environmental hazard	Not Applicable		
14.6. Special precautions for user	Classification code	T1	
	Special provisions	274; 551; 802	
	Limited quantity	5 L	
	Equipment required	PP, EP, TOX, A	
	Fire cones number	0	

14.7. Maritime transport in bulk according to IMO instruments

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

Not Applicable

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

Product name	Group

14.7.3. Transport in bulk in accordance with the IGC Code

Product name Ship Type

SECTION 15 Regulatory information

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

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

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

Seveso Category	Not Available

15.2. Chemical safety assessment

For further information please look at the Chemical Safety Assessment and Exposure Scenarios prepared by your Supply Chain if available.

ECHA SUMMARY

Not Applicable

National Inventory Status

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

SECTION 16 Other information

Revision Date	15/05/2022
Initial Date	15/05/2022

Full text Risk and Hazard codes

Other information

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

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

- EN 166 Personal eye-protection
- EN 340 Protective clothing
- EN 374 Protective gloves against chemicals and micro-organisms
- EN 13832 Footwear protecting against chemicals
- EN 133 Respiratory protective devices

Definitions and abbreviations

- PC TWA: Permissible Concentration-Time Weighted Average
- PC STEL: Permissible Concentration-Short Term Exposure Limit
- IARC: International Agency for Research on Cancer

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

end of SDS