

rHuNOG **Apollo Scientific** Chemwatch Hazard Alert Code: 2 Part Number: BITP1226 Issue Date: 05/03/2024 Version No: 1.1 Print Date: 05/03/2024 Safety Data Sheet (Conforms to Annex II of REACH (1907/2006) - Regulation 2020/878) S.REACH.GB-NIR.EN SECTION 1 Identification of the substance / mixture and of the company / undertaking

1.1. Product Identifier

Product name	rHuNOG
Synonyms	Not Available
Other means of identification	Not Available
1.2 Polovant identified uses of the substance or mixture and uses advised against	

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

Relevant identified uses	Use according to manufacturer's directions.
Uses advised against	No specific uses advised against are identified.
1.3. Details of the manufacture	r 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

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 1272/2008 [CLP] and amendments ^[1]	H315 - Skin Corrosion/Irritation Category 2, H319 - Serious Eye Damage/Eye Irritation Category 2, H335 - Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) Category 3
Legend:	1. Classified by Chernwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

2.2. Label elements

Hazard pictogram(s)		
Signal word	Warning	
	•	
Hazard statement(s)		
H315	Causes skin irritation.	
H319	Causes serious eye irritation.	

H335 May cause respiratory irritation.

Supplementary statement(s)

Not Applicable

Precautionary statement(s) Prevention

Use only outdoors or in a well-ventilated area.
Avoid breathing dust/fumes.
Wear protective gloves, protective clothing, eye protection and face protection.
Wash all exposed external body areas thoroughly after handling.

Precautionary statement(s) Response

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.
P337+P313	If eye irritation persists: Get medical advice/attention.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.

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.

Material does not contain any CLP Article 18 substances.

2.3. Other hazards

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

SECTION 3 Composition / information on ingredients

3.1.Substances

See 'Composition on ingredients' in Section 3.2

3.2.Mixtures

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	rHuNOG	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				

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 contact occurs: Immediately remove all contaminated clothing, including footwear. 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, without delay.

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Ingestion

Immediately give a glass of water.

First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

4.2 Most important symptoms and effects, both acute and delayed

See Section 11

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

Treat symptomatically.

SECTION 5 Firefighting measures

5.1. Extinguishing media

- 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

Fire Incompatibility	None known.

5.3. Advice for firefighters

Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves 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.
Fire/Explosion Hazard	 Non combustible. Not considered a significant fire risk, however containers may burn. May emit poisonous fumes. May emit corrosive fumes.

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

See section 8

6.2. Environmental precautions

See section 12

6.3. Methods and material for containment and cleaning up

Minor Spills	 Clean up all spills immediately. Avoid breathing dust and contact with skin and eyes. Wear protective clothing, gloves, safety glasses and dust respirator. Use dry clean up procedures and avoid generating dust. Sweep up, shovel up or Vacuum up (consider explosion-proof machines designed to be grounded during storage and use). Place spilled material in clean, dry, sealable, labelled container.
Major Spills	 Moderate hazard. CAUTION: Advise personnel in area. Alert Emergency Services and tell them location and nature of hazard. Control personal contact by wearing protective clothing. Prevent, by any means available, spillage from entering drains or water courses. Recover product wherever possible. IF DRY: Use dry clean up procedures and avoid generating dust. Collect residues and place in sealed plastic bags or other 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.

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 hand	7.1. Precautions for safe handling			
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.
Fire and explosion protection	See section 5
	Store in original containers.
	 Store in original containers. Keep containers securely sealed.
	 Store in a cool, dry area protected from environmental extremes.
	 Store away from incompatible materials and foodstuff containers.
	Protect containers against physical damage and check regularly for leaks.
Other information	 Observe manufacturer's storage and handling recommendations contained within this SDS.
	For major quantities:
	 Consider storage in bunded areas - ensure storage areas are isolated from sources of community water (including stormwater, ground water
	lakes and streams).
	 Ensure that accidental discharge to air or water is the subject of a contingency disaster management plan; this may require consultation with
	local authorities.

7.2. 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	 Heat sensitive Moisture sensitive
Hazard categories in accordance with Regulation (EC) No 2012/18/EU (Seveso III)	Not Available
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 II	Ingredient	Material name	TWA	STEL	Peak	Notes
Not Available						

Not Applicable

Emergency Limits

Ingredient	TEEL-1	TEEL-2		TEEL-3
rHuNOG	Not Available	Not Available		Not Available
Ingredient	Original IDLH		Revised IDLH	
rHuNOG	Not Available		Not Available	

8.2. Exposure controls

 8.2.1. Appropriate engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard 'physically' away from the worker and ventilation that strategically 'adds' and 'removes' air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure 	
	 be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard 'physically' away from the worker and ventilation that strategically 'adds' and 'removes' air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a

	 If in spite of local exhaust an adverse concentration of Such protection might consist of: (a): particle dust respirators, if necessary, combined with ar (b): filter respirators with absorption cartridge or canister of (c): fresh-air hoods or masks. Air contaminants generated in the workplace possess varyi circulating air required to effectively remove the contaminant 	n absorption cartridge; the right type; ing 'escape' velocities which, in tur		
	Type of Contaminant:			Air Speed:
	direct spray, spray painting in shallow booths, drum filling,	, conveyer loading, crusher dusts,	gas discharge (active	1-2.5 m/s (200-500
	generation into zone of rapid air motion) grinding, abrasive blasting, tumbling, high speed wheel ge very high rapid air motion).	enerated dusts (released at high in	itial velocity into zone of	f/min.) 2.5-10 m/s (500-2000 f/min.)
	Within each range the appropriate value depends on:			
	Lower end of the range	Upper end of the range		
	1: Room air currents minimal or favourable to capture	1: Disturbing room air currents		
	2: Contaminants of low toxicity or of nuisance value only.	2: Contaminants of high toxicity		
	3: Intermittent, low production.	3: High production, heavy use		
	4: Large hood or large air mass in motion	4: Small hood-local control only		
	Simple theory shows that air velocity falls rapidly with distart with the square of distance from the extraction point (in sim accordingly, after reference to distance from the contamina 4-10 m/s (800-2000 f/min) for extraction of crusher dusts ge producing performance deficits within the extraction appare more when extraction systems are installed or used.	nple cases). Therefore the air spee ating source. The air velocity at the enerated 2 metres distant from the	d at the extraction point s extraction fan, for examp extraction point. Other m	hould be adjusted, le, should be a minimum echanical considerations
8.2.2. Individual protection measures, such as personal protective equipment				
Eye and face protection	 Safety glasses with side shields. Chemical goggles. [AS/NZS 1337.1, EN166 or nationa Contact lenses may pose a special hazard; soft contact the wearing of lenses or restrictions on use, should be and adsorption for the class of chemicals in use and ar their removal and suitable equipment should be readily remove contact lens as soon as practicable. Lens shou a clean environment only after workers have washed h 	ct lenses may absorb and concentr created for each workplace or task n account of injury experience. Mey y available. In the event of chemica uld be removed at the first signs of	k. This should include a redical and first-aid personn il exposure, begin eye irrig eye redness or irritation -	eview of lens absorption lel should be trained in gation immediately and lens should be removed
	See Hand protection below			-
Skin protection				
Skin protection	The selection of suitable gloves does not only depend on the manufacturer. Where the chemical is a preparation of sever and has therefore to be checked prior to the application. The exact break through time for substances has to be obta- making a final choice. Personal hygiene is a key element of effective hand care. Of washed and dried thoroughly. Application of a non-perfurme Suitability and durability of glove type is dependent on usage frequency and duration of contact, chemical resistance of glove material, glove thickness and dexterity	ral substances, the resistance of th ained from the manufacturer of the Gloves must only be worn on clean ad moisturiser is recommended.	ne glove material can not protective gloves and ha hands. After using gloves	be calculated in advance s to be observed when

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. initrile rubber. butyl rubber. fluorocaoutchouc. polyvinyl chloride. Gloves should be examined for wear and/ or degradation constantly.
Body protection	See Other protection below
Other protection	 Overalls. P.V.C apron. Barrier cream. Skin cleansing cream. 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 Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	P1 Air-line*	-	PAPR-P1 -
up to 50 x ES	Air-line**	P2	PAPR-P2
up to 100 x ES	-	P3	-
		Air-line*	-
100+ x ES	-	Air-line**	PAPR-P3

* - Negative pressure demand ** - Continuous flow

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

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

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

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

Certified respirators will be useful for protecting workers from inhalation of particulates when properly selected and fit tested as part of a complete respiratory protection program.
 Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)

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

· Try to avoid creating dust conditions.

8.2.3. Environmental exposure controls

See section 12

SECTION 9 Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Not Available		
Physical state	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

Inhaled	The material can cause respiratory irritation in some persons. The body's Persons with impaired respiratory function, airway diseases and conditio if excessive concentrations of particulate are inhaled. If prior damage to the circulatory or nervous systems has occurred or if k conducted on individuals who may be exposed to further risk if handling .	ns such as emphysema or chronic bronchitis, may incur further disability idney damage has been sustained, proper screenings should be
Ingestion	The material has NOT been classified by EC Directives or other classification corroborating animal or human evidence.	ation systems as 'harmful by ingestion'. This is because of the lack of
Skin Contact	This material can cause inflammation of the skin on contact in some pers The material may accentuate any pre-existing dermatitis condition Skin contact is not thought to have harmful health effects (as classified u following entry through wounds, lesions or abrasions. Open cuts, abraded or irritated skin should not be exposed to this materi Entry into the blood-stream, through, for example, cuts, abrasions or lesi prior to the use of the material and ensure that any external damage is s	nder EC Directives); the material may still produce health damage al ons, may produce systemic injury with harmful effects. Examine the skin
Eye	This material can cause eye irritation and damage in some persons.	
Chronic	Long-term exposure to respiratory irritants may result in airways disease Substance accumulation, in the human body, may occur and may cause	
rHuNOG	TOXICITY Not Available	IRRITATION Not Available
Legend:	 Value obtained from Europe ECHA Registered Substances - Acute to: specified data extracted from RTECS - Register of Toxic Effect of chemic 	

rHuNOG	Asthma-like symptoms may continue for months or even known as reactive airways dysfunction syndrome (RAI criteria for diagnosing RADS include the absence of pu asthma-like symptoms within minutes to hours of a do airflow pattern on lung function tests, moderate to seven lymphocytic inflammation, without eosinophilia. RADS the concentration of and duration of exposure to the im result of exposure due to high concentrations of irritatii disorder is characterized by difficulty breathing, cough	DS) which can occur after exposure to revious airways disease in a non-atop cumented exposure to the irritant. Other ere bronchial hyperreactivity on metha- (or asthma) following an irritating inhi- ritating substance. On the other hand ng substance (often particles) and is of	b high levels of highly irritating compound. Main bic individual, with sudden onset of persistent ner criteria for diagnosis of RADS include a reversible acholine challenge testing, and the lack of minimal alation is an infrequent disorder with rates related to industrial bronchitis is a disorder that occurs as a
Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	✓
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×

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Mutagenicity X		Aspiration Hazard	×
	Legend:		not available or does not fill the criteria for classification ble 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 cu	rrent literature.		
11.2.2. Other information			

See Section 11.1

SECTION 12 Ecological information

12.1. Toxicity

rHuNOG	Endpoint Test Duration (hr) Species Value Source					
THUNOG	Not Available	Not Available	Not Available	Not Available	Not Available	
Legend:	Extracted from 1. IUCLID	Toxicity Data 2. Europe ECHA Regis	tered Substances - Ecotoxic	ological Information - Aqua	tic Toxicity 4. US EPA,	
	Ecotox database - Aquati - Bioconcentration Data 8	c Toxicity Data 5. ECETOC Aquatic H . Vendor Data	azard Assessment Data 6.	NITE (Japan) - Bioconcentr	ation Data 7. METI (Japan,	

DO NOT discharge into sewer or waterways.

12.2. Persistence and degradability

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

12.3.	Bioaccumulative	potential
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No Data available for all ingradients	Ingredient	Bioaccumulation
No Data available for all highedichts		No Data available for all ingredients

12.4. Mobility in soil

Ingredient	Mobility
	No Data available for all ingredients

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

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

SECTION 13 Disposal considerations

13.1. Waste treatment methods

Product / Packaging disposal	 Recycle wherever possible 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

Marine Pollutant	NO
HAZCHEM	Not Applicable

Land transport (ADR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

	1		
14.1. UN number or ID number	Not Applicable		
14.2. UN proper shipping name	Not Applicable		
14.3. Transport hazard class(es)	Class	Not Appli	cable
	Subsidiary Hazard	Not Appli	cable
14.4. Packing group	Not Applicable		
14.5. Environmental hazard	Not Applicable		
	Hazard identification (H	Kemler)	Not Applicable
	Classification code		Not Applicable
14.6. Special precautions for	Hazard Label		Not Applicable
user	Special provisions		Not Applicable
	Limited quantity		Not Applicable
	Tunnel Restriction Coc	de	Not Applicable

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

14.1. UN number	Not Applicable			
14.2. UN proper shipping name	Not Applicable			
14.3. Transport hazard class(es)	ICAO/IATA Class	Not Applicable		
	ICAO / IATA Subsidiary Hazard Not Applicable ERG Code Not Applicable			
14.4. Packing group	Not Applicable			
14.5. Environmental hazard	Not Applicable			
	Special provisions		Not Applicable	
	Cargo Only Packing Instructions		Not Applicable	
	Cargo Only Maximum Qty / Pack		Not Applicable	
14.6. Special precautions for user	Passenger and Cargo Packing Instructions		Not Applicable	
	Passenger and Cargo Maximum Qty / Pack		Not Applicable	
	Passenger and Cargo Limited Quantity Packing Instructions		Not Applicable	
	Passenger and Cargo Limited Maximum Qty / Pack		Not Applicable	

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

14.1. UN number	Not Applicable			
14.2. UN proper shipping name	Not Applicable			
14.3. Transport hazard class(es)	IMDG Class IMDG Subsidiary Hazard	Not Applicable d Not Applicable		
14.4. Packing group	Not Applicable			
14.5 Environmental hazard	Not Applicable			
14.6. Special precautions for user	Special provisions N	ot Applicable ot Applicable lot Applicable		

Inland waterways transport (ADN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable		
14.2. UN proper shipping name	Not Applicable		
14.3. Transport hazard class(es)	Not Applicable Not Applicable		
14.4. Packing group	Not Applicable		
14.5. Environmental hazard	Not Applicable		
14.6. Special precautions for user	Classification codeNot ApplicableSpecial provisionsNot ApplicableLimited quantityNot Applicable		

	Equipment required	Not Applicable
	Fire cones number	Not Applicable
14.7. Maritime transport	t in bulk according to IMO ins	struments
14.7.1. Transport in bull	k according to Annex II of MA	RPOL and the IBC code
Not Applicable		
14.7.2. Transport in bull	k in accordance with MARPO	L Annex V and the IMSBC Code

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

Additional Regulatory Information

Not Applicable

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

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

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	05/03/2024
Initial Date	05/03/2024

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
- ۶ IARC: International Agency for Research on Cancer
- ۶ ACGIH: American Conference of Governmental Industrial Hygienists
- STEL: Short Term Exposure Limit
- ٠ TEEL: Temporary Emergency Exposure Limit.
- IDLH: Immediately Dangerous to Life or Health Concentrations ۶
- ES: Exposure Standard
- OSF: Odour Safety Factor NOAEL: No Observed Adverse Effect Level
- LOAEL: Lowest Observed Adverse Effect Level
- TLV: Threshold Limit Value ٠
- ٠ LOD: Limit Of Detection
- OTV: Odour Threshold Value ٠
- ۲ BCF: BioConcentration Factors
- BEI: Biological Exposure Index ۶
- DNEL: Derived No-Effect Level ٠
- PNEC: Predicted no-effect concentration
- ▶ AIIC: Australian Inventory of Industrial Chemicals
- DSL: Domestic Substances List ۲
- ٠ NDSL: Non-Domestic Substances List
- IECSC: Inventory of Existing Chemical Substance in China ٠
- EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European List of Notified Chemical Substances ۲
- 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
- ۲ TCSI: Taiwan Chemical Substance Inventory
- INSQ: Inventario Nacional de Sustancias Químicas
- NCI: National Chemical Inventory
- FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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

Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	Classification Procedure
Skin Corrosion/Irritation Category 2, H315	Expert judgement
Serious Eye Damage/Eye Irritation Category 2, H319	Expert judgement
Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) Category 3, H335	Expert judgement

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