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ACRYLAMIDE

SECTION 1: PRODUCT IDENTIFICATION

Product Name: ACRYLAMIDE Product Code: TMB 003 CAS#: 79-06-1 Synonym: Acrylic acid amide, 2-Propenamide Chemical Name: Not Available Chemical Formula: C₃H₅NO Formula Weight: 71.08

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Composition: Name: Not available Toxicological Data on Ingredients: Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008. Acute toxicity, Oral (Category 3), H301 Acute toxicity, Inhalation (Category 4), H332 Acute toxicity, Dermal (Category 4), H312 Skin irritation (Category 2), H315 Eye irritation (Category 2), H315 Eye irritation (Category 2), H319 Skin sensitization (Category 1), H317 Germ cell mutagenicity (Category 1B), H340 Carcinogenicity (Category 1B), H350 Reproductive toxicity (Category 2), H361f Specific target organ toxicity - repeated exposure, Oral (Category 1), Peripheral nervous system, H372

SECTION 3: HAZARDS IDENTIFICATION

Classification of the substance or mixture Potential Acute Health Effects: Acute toxicity, Oral (Category 3), H301 Acute toxicity, Inhalation (Category 4), H332 Acute toxicity, Dermal (Category 4), H312 Skin irritation (Category 2), H315 Eye irritation (Category 2), H319 Skin sensitization (Category 1), H317 Potential Chronic Health Effects: Carcinogenic Effects: Carcinogenicity (Category 1B), H350 Mutagenic Effects: Germ cell mutagenicity (Category 1B), H340 Teratogenic Effects: Reproductive toxicity (Category 2), H361f Specific target organ toxicity - repeated exposure, Oral (Category 1), Peripheral nervous system, H372 Developmental Toxicity: Not Available

SECTION 4: FIRST AID MEASURES

Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.



Skin Contact: Wash off immediately with soap and plenty of water. Cover the irritated skin with emollient. Immediate medical attention is required.

Serious Skin Contact: Not available.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation: Not Available.

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Serious Ingestion: Not available.

SECTION 5: FIRE FIGHTING MEASURES

Suitable extinguishing media Water Foam Carbon dioxide (CO2) Dry powder Special hazards arising from the substance or mixture Carbon oxides Nitrogen oxides (NOx) Combustible. Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or vapours possible in the event of fire. Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.
Advice on safe handling
Work under hood. Do not inhale substance/mixture.
Storage conditions
Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.
Light sensitive. Store under inert gas.

Storage class

Not available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Titan Biotech Limited, A- 902A, RIICO Industrial Area, Phase III, Bhiwadi-301019.



Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.

Respiratory protection

Respiratory protection is not required. If protection from nuisance levels of dusts are desired, use type N95 or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance	:	Crystalline
Odor	:	Not available
Color	:	White
Molecular Weight	:	Not available
РН	:	5.2-6.0
Boiling Point	:	Not available
Melting Point	:	Not available
Critical Temperature	:	Not available
Specific Gravity	:	Not available
Vapor Pressure	:	Not applicable
Vapor Density	:	Not available
Volatility	:	Not available
Odor Threshold	:	Not available
Water/Oil Dist. Coeff.	:	Not available
Ionicity (in Water)	:	Not available
Dispersion Properties	:	Not available
Solubility	:	Not available

SECTION 10: STABILITY AND REACTIVITY DATA

Stability: The product is chemically stable under standard ambient conditions (room temperature).
Instability Temperature: Not available
Conditions of Instability: Strong heating.
Incompatibility with various substances: Strong oxidizing agents.
Special Remarks on Corrosivity: Non corrosive.
Special Remarks on Reactivity: Not available
Polymerization: Will Not occur.
Hazardous decomposition products: In the event of fire.

SECTION 11: TOXICOLOGICAL INFORMATION.

Routes of Entry: Inhalation, Ingestion Toxicity to Animals: LD₅₀: Oral Rat - female - 177 mg/kg LC₅₀: Not available Chronic Effects on Humans: Not available Other Toxic Effects on Humans: Not available Special Remarks on Toxicity to Animals: Not available



Special Remarks on other Toxic Effects on Humans:

May cause genetic defects. Test Type: Ames test Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Test Type: Chromosome aberration test in vitro Test system: Chinese hamster lung cells Metabolic activation: without metabolic activation Method: OECD Test Guideline 473 **Result:** positive Test Type: In vitro mammalian cell gene mutation test Test system: Chinese hamster ovary cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 **Result:** negative Potential Health Effects: Suspected of damaging fertility.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

Toxicity to fish	Static test LC50 - Oncorhynchus mykiss (rainbow trout) - 180 mg/l -96 h
Toxicity to daphnia	
and other aquatic	flow-through test EC50 - Daphnia magna (Water flea) - 98 mg/l - 48h
invertebrates	
Toxicity to algae	static test NOEC - Pseudokirchneriella subcapitata - 56 mg/l - 72 h
Toxicity to bacteria	EC50 - Photobacterium phosphoreum - 13.500 mg/l
	Remarks: (IUCLID)

BOD and COD:

Biodegradability aerobic - Exposure time 28 d

Result: 100 % - Readily biodegradable.

Products of Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise. **Toxicity of the Products of Biodegradation:** Not Available.

Special Remarks on the Products of Biodegradation: Not Available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

SECTION 14: TRANSPORT INFORMATION

UN number:		
ADR/RID: 2074	IMDG: 2074	IATA: 2074
UN proper shipping name		
ADR/RID: Acrylamide, solid		
IMDG: Acrylamide, solid		
IATA: Acrylamide, solid		
Transport hazard class(es):		
ADR/RID: 6.1	IMDG: 6.1	IATA: 6.1
Packaging group:		



ADR/RID:		IMDG:	III	IATA:	III	
	ntal hazards:					
ADR/RID: n	10	IMDG Marine pollut	ant: no	IATA: no		
		SECTION 15:	REGUL	ATORY INFORMATION		
-				pecific for the substance of		
		et complies with the r	equirem	ents of Regulation (EC) No.		
1907/2006.						
	ions and/or restri					
	ndidate List of Sul					
-	rn for Authorisati	•		: acrylamide		
	strictions on the r					
	the market and us			: acrylamide		
-	afety Assessment	rations and articles				
	alety Assessment	· NOT available.				
		SECTION	16: OTH	IER INFORMATION		
References	: Full text of H AN	ID R-Statements.				
H301 Toxic	if swallowed.					
H312 Harm	ful in contact with	n skin.				
H312 + H33	32 Harmful in cont	act with skin or if inha	aled.			
H315 Cause	es skin irritation.					
H317 May 0	cause an allergic s	kin reaction.				
	es serious eye irrit	ation.				
	ıful if inhaled.					
-	cause genetic defe	ects.				
	cause cancer.					
	ected of damagin					
			or repea	ated exposure if Swallowed	d	
Other Spec	ial Consideration	s: Not available				
The inform	ation contained in	this data sheet repre-	conts the	e best information current	y available to u	s However no

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