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Product Name: N,N-Dimethylacetamide

CAS No.: 127-19-5

1. Identification			
Product Code	: 90713, 90032, 901	90	
Company Name	: Advent Chembio F	Private Limited	
Address	: W-288. MIDC. TT	C INDUSTRIAL AREA, THANE-B	SELAPUR
		, NAVI MUMBAI - 400 701.	
E-mail	: <u>info@adventchem</u>	<u>bio.com</u>	
WEBSITE	: <u>www.adventchem</u>	<u>pio.com</u>	
Company Phone Number	: 022-27690837		
2. Composition/Information	on Ingredients		
Ingredient	CAS No	Percent	
N,N-DIMETHYLACETAMID	E 127-19-5	99- 100%	
Acute toxicity (Inhalation - vap lerious eye damage/eye irritat loxic to reproduction lepecific target organ toxicity - xposure lepecific target organ toxicity – epeated exposure (Inhalation) Labels elements	ion : Category 2 : Category 1 single : Category 3		
Hazard symbol			
Signal word Hazard statement	May cause d May damage	aled. ous eye irritation. browsiness or dizziness. e fertility or the unborn child.	
	May cause d exposure.	amage to organs through prolonged of	or repeated



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Prevention	: Keep away from heat/sparks/open flames/hot surfaces. No smoking. Obtain special instructions before use. Do not handle until all safety
Posponso	 precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. In case of fire: Use water spray, foam, dry powder or carbon dioxide
Response	for extinction. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If exposed or concerned: Get medical
Storage	advice/attention. Specific treatment.Store in a well-ventilated place. Keep cool. Store locked up.
Disposal	: Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Other hazards which do not result in GHS classification	: None.

General information	: Get medical advice/attention if you feel unwell. If medical advice is needed, have product container or label at hand. Show this safety data sheet to the doctor in attendance.
Ingestion	 Drink a few glasses of water or milk. Call a POISON CENTER or doctor/physician if you feel unwell.
Inhalation	: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician.
Skin contact	: Wash skin thoroughly with soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.
Eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Most important symptoms/effects, acute and delayed	: May cause irritation to skin, eyes, and respiratory tract. Narcotic effect. May cause reproductive effects.
Indication of immediate medical attention and special treatment needed	: Symptoms may be delayed. Treat symptomatically.



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5. Fire fighting measures	
General fire hazards Suitable (and unsuitable) extinguish	: Flammable liquid and vapor. ing media
Suitable extinguishing media	: Water spray, foam, dry powder or carbon dioxide.
Unsuitable extinguishing media Specific hazards arising from the chemical Special protective equipment and p	 Avoid water in straight hose stream; will scatter and spread fire. Vapors may cause a flash fire or ignite explosively. Vapors may travel considerable distance to a source of ignition and flash back. Prevent buildup of vapors or gases to explosive concentrations. Heat may cause the containers to explode .
Special fire fighting procedures Special protective equipment for fire-fighters	 Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting the fire. Fight fire from a protected location. Move containers from fire area if you can do so without risk. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
6. Accidental Release Measures	
Personal precautions, protective equipment and emergency procedures	: Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away. Ventilate closed spaces before entering them. Avoid inhalation of vapors and spray mists. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
Methods and material for containment and cleaning up	: Eliminate all ignition sources if safe to do so. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.
Notification Procedures	: Inform authorities if large amounts are involved.
Environmental precautions	: Do not contaminate water sources or sewer. Prevent further leakage

or spillage if safe to do so.



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7. Handling and Storage	
Precautions for safe handling	: Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Wear protective gloves/protective clothing/eye protection/face protection. Do not get in eyes, on skin, on clothing. Do not breathe dust/fume/gas/mist/vapors/spray. Use only in well-ventilated areas. Wash hands thoroughly after handling. Ground/bond container and receiving equipment. Use explosion-proof ventilation equipment. Take precautionary measures against static discharges when there is a risk of dust explosion .
Conditions for safe storage, including any incompatibilities	: Store in a cool and well-ventilated place. Store in a dry place. Store locked up. Keep away from food, drink and animal feeding stuffs. Keep container tightly closed. Ground container and transfer equipment to eliminate static electric sparks. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of flammable liquids.

8. Exposure Controls Personal Protection

Control parameters Occupational exposure limits

Occupational exposure limits			
Chemical identity	Туре	Exposure Limit values	Source
DIMETHYL ACETAMIDE	TWA	10 ppm	US. ACGIH Threshold Limit Values (2011)
	REL	10ppm 35 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	PEL	10ppm 35 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	10ppm 35 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989
	TAW	10ppm 35 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	AN ESL	36 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (12 2010)
	ST ESL	360 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (12 2010)
	ST ESL	100 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (12 2010)



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AN ESL	10 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (12 2010)
TWA PEL	10ppm 35 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (08 2010)

Appropriate engineering contr	
	s, such as personal protective equipment
General information	: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work area. Use explosion-proof ventilation equipment.
Eye/face protection	: Wear safety glasses with side shields (or goggles).
Hand protection	: Chemical resistant gloves .
Other	: Wear suitable protective clothing.
Respiratory protection	: In case of inadequate ventilation use suitable respirator. Air-purifying respirator with a high efficiency particulate filter.
Hygiene measures	: Provide eyewash station and safety shower. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned. Take off contaminated clothing and wash before reuse.



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9. Physical and Chemical Properties

Appearance	:	Colorless liquid .
Odor	:	Amine odor.
рН	:	No data available.
Melting point/freezing point	:	-18.59 °C
Initial boiling point and boiling	:	163 °C
range		
Flash Point	:	70 °C (Open Cup)
Vapor pressure	:	0.30 kPa (25 °C)
Vapor density	:	3.01 AIR=1
Relative density	:	0.94 (25 °C)
Solubility in water	:	Miscible with water.
Solubility (other)	:	No data available.
Formula	:	C ₄ H ₉ NO
Molecular Weight	:	87.12

10. Stability and reactivity

Reactivity Chemical stability Possibility of hazardous reactions Conditions to avoid Incompatible materials	••••••	No dangerous reaction known under conditions of normal use. Material is stable under normal conditions. Hazardous polymerization does not occur Heat, sparks, flames. Contact with incompatible materials. Strong oxidizing agents. Halogenated materials. May attack some plastics, rubber and coatings.
Hazardous decomposition products	:	Oxides of Carbon. Nitrogen Oxides ammonia.



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Information on likely routes of expo	sure
Ingestion	: May be harmful if swallowed.
Inhalation	: Toxic if inhaled.
Skin contact	: May be harmful in contact with skin.
Eye contact	: Causes serious eye irritation.
Information on toxicological effects	
Acute toxicity (list all possible routes	s of exposure)
Oral Product	: LD 50 (Rat): 4,390 mg/kg
	LD 50 (Mouse): 4,620 mg/kg.
Dermal Product	: LD 50 (Rabbit): 2,240 mg/kg
	LD 50 (Mouse): 9,600 mg/kg.
Inhalation Product	: LC 50 (Rat, 1 h): 2,475 mg/l.
Repeated dose toxicity Product	: No data available.
Skin corrosion/irritation Product	: No data available.
Serious eye damage/eye irritation Product	: Causes serious eye irritation.
Respiratory or skin sensitization Product	: No data available.
Carcinogenicity Product	: No data available.
IARC Monographs on the	: No carcinogenic components identified.
Evaluation of Carcinogenic Risks	
to Humans DIOXANE	No consine components identified
US. National Toxicology Program (NTP) Report on Carcinogens DIOXANE	: No carcinogenic components identified.
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001- 1050	: No carcinogenic components identified.
Germ cell mutagenicity	
In vitro Product	: No data available.
In vivo Product	: No data available.
Reproductive toxicity Product	: May damage fertility or the unborn child.
Specific target organ toxicity -	: Narcotic effect.
single exposure Product	
Specific target organ toxicity -	: Inhalation - vapor: Liver.
repeated exposure Product	-
Aspiration hazard Product	: Not classified.
Other effects	: No data available.



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12. Ecological Information Ecotoxicity Acute hazards to the aquatic environment : Fish Product No data available. : **Specified substance(s):** DIMETHYL LC 50 (Medaka, high-eyes (Oryzias latipes), 48 h): 1,000 mg/l ACETAMIDE Mortality. No data available. **Aquatic invertebrates Product** : Chronic hazards to the aquatic environment : **Fish Product** No data available. : **Aquatic invertebrates Product** No data available. • No data available. **Toxicity to Aquatic Plants Product:** : **Persistence and degradability Biodegradation Product** There are no data on the degradability of this product. : **BOD/COD** ratio Product No data available. : **Bioaccumulative potential Bioconcentration factor (BCF)** No data available on bioaccumulation. : **Product** Partition coefficient n-octanol / Log Kow: -0.77 : water (log Kow) Product Mobility in soil The product is water soluble and may spread in water systems. : Other adverse effects The product components are not classified as environmentally : hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

13. Disposal consideration	
Disposal instructions	: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations,
Contaminated packaging	 and product characteristics at time of disposal . Since emptied containers retain product residue, follow label warnings even after container is emptied.



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14. Transport Information

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT			Not Regulated		
IMDG			Not Regulated		
IATA			Not Regulated		

15. Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture No Data Available.

16. Other Information

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

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