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MATERIAL SAFETY DATA SHEET

Version :02

PRODUCT NAME: N,N-DIMETHYLACETAMIDE

CAS Number:127-19-5

1. IDENTIFICATION:			
Product Code	:	90032, 90190, 90713, 93400, 93464, 94032, 98147	
Company Name	:	ADVENT CHEMBIO PRIVATE LIMITED	
Address	:	W-279, MIDC, TTC INDUSTRIAL AREA, THANE-BELAPUR ROAD, RABALE, NAVI MUMBAI - 400 701, MAHARASHTRA, INDIA.	
E-mail	:	sales@adventchembio.com	
WEBSITE	:	www.adventchembio.com	
Company Phone Number	:	+91 77770 84837	
2. HAZARDS IDENTIFICATIO	N:		
Hazard classification			
Physical hazards			
Flammable liquids	•	Category 4	
-	•		
Health hazards Acute toxicity Inhalation -			
vapor	:	Category 3	
Serious eye damage/eye irritation	:	Category 2	
Specific target organ toxicity - single exposure	:	Category 3	
Specific target organ toxicity – repeated exposure (Inhalation)	:	Category 2	
Labels elements	:		
Hazard symbol	:		
Signal word	:	Danger	
Hazard statement	:	Highly flammable liquid and vapor. Causes serious eye irritation. May cause drowsiness or dizziness. May damage fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.	
Precautionary statement			
Prevention	:	Obtain special instructions before use. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Do not handle until all safety precautions have been read and understood. Wear protective gloves/ protective clothing/ eye protection/ face protection. Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.	



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Response	Keep container tightly closed. Ground/ bond container and receiving equipment. Use explosion-proof electrical/ ventilating/ lighting/ equipment. Use only non-sparking tools. Take precautionary measures against static discharge. IF exposed or concerned: Get medical advice/ attention. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/
	shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
Storage	Store in a dry & well-ventilated place. Keep container tightly closed. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Disposal	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	Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

3. COMPOSITION/ INFORMATION ON INGRADIENTS:			
Ingredient	CAS Number	Percent	Hazardous
N,N-Dimethylacetamide	127-19-5	99 - 100%	Yes

4. FIRST AID MEASURES:

General information	: Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.
Ingestion	 Call a physician or poison control center immediately. Rinse mouth. Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Move to fresh air. Call a physician or poison control center immediately. If breathing stops,
Inhalation	 provide artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms persist.
Skin contact	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.
Eye contact	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.
Most important symptoms/effects, acute and delayed	Toxic if inhaled. Toxic if swallowed. Toxic in contact with skin. Irritating to eyes, respiratory system and skin.
Indication of immediate medical attention and special treatment needed	: Symptoms may be delayed. Treat symptomatically.



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5. FIRE FIGHTING MEASURES	
General information	Flammable liquid and vapor.
Suitable (and unsuitable) extin	
Suitable extinguishing	Water spray, foam, dry powder or carbon dioxide.
media Unsuitable extinguishing	
media	Avoid water in straight hose stream; will scatter and spread fire.
Specific hazards arising	Vapors may cause a flash fire or ignite explosively. Vapors may travel considerable distance
from the chemical	to a source of ignition and flash back. Prevent buildup of vapors or gases to explosive
	concentrations. Vapor from the solvent may accumulate in container headspace resulting in
Special protective equipment a	flammability hazard. Heat may cause the containers to explode.
Special protective equipment	
Special firefighting	Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting
procedures	the fire. Fight fire from a protected location. Move containers from fire area if you can do so without risk.
Special protective	Firefighters must use standard protective equipment including flame retardant coat, helmet
equipment for fire-fighters	with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
6. ACCIDENTAL RELEASE MEA	
Personal precautions,	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
protective equipment and emergency procedures	Avoid breathing mists or vapors. Keep upwind. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate
emergency procedures	protective clothing. Keep unauthorized personnel away.
Methods and material for	Eliminate all ignition sources if safe to do so. Use only non-sparking tools. Take
containment and cleaning	precautionary measures against static discharges. Stop leak if possible without any risk.
up	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	Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if
F	large amounts are involved.
Environmental precautions	Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
7. HANDLING AND STORAGE	
Precautions for safe	Do not handle until all safety precautions have been read and understood. DO NOT handle,
handling	store or open near an open flame, sources of heat or sources of ignition. Protect material
	from direct sunlight. Take precautionary measures against static discharges. Ground/bond
	container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Wear protective
	gloves/protective clothing/eye
	protection/ face protection. Avoid contact with eyes, skin, and clothing. Do not breathe mist
	or vapor. Use only with adequate ventilation. Wash hands thoroughly after handling.
Conditions for safe storage,	Keep away from food, drink and animal feeding stuffs. Keep container tightly closed in a dry,
including any incompatibilities	well-ventilated place. Ground container and transfer equipment to eliminate static electric sparks. Comply with all national, state, and local codes pertaining to the storage, handling,
incompationities	dispensing, and disposal of flammable liquids.
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8. EXPOSURE CONTROLS PERSONAL PROTECTION:

Control parameters			
Occupational exposure			
limits Chemical identity	Туре	Exposure Limit values	Source
N,N- DIMETHYLACETAMIDE	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)
	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			(00 2010)
controls	: No data availa	ble	
Individual protection measu	ires, such as persona	al protective equipment	
General information	rates should k ventilation, or exposure limit acceptable lev	be matched to conditions. If applic other engineering controls to ma cs. If exposure limits have not beer	ges per hour) should be used. Ventilation cable, use process enclosures, local exhaust intain airborne levels below recommended n established, maintain airborne levels to an er must be available in the immediate work
Eye/face protection		lasses with side shields (or goggles)	
Hand protection	: Chemical resis	tant gloves.	

Other ... Wear suitable protective clothing.



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Respiratory protection Hygiene measures	In case of inadequate ventilation use suitable respirator. Chemical respirator with organic vapor cartridge. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Provide eyewash station and safety shower.
	Avoid contact with eyes, skin, and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES:

3. FITSICAL AND CHEMICAL FROFENIES.		
Appearance	:	Clear, colorless liquid
Odor	:	Amine odor
Solubility	:	Miscible in water.
Formula	:	C4H9NO
Molecular Weight	:	87.12 g/mol
Specific Gravity	:	0.94 g/cm3 at 25°C
рН	:	No information found.
Boiling Point	:	163°C
Melting Point	:	-18.59°C
Flash Point	:	70 °C
Vapor Density (Air=1)	:	3.01
Vapor Pressure (mm Hg)	:	0.30 kPa 25°C
Evaporation Rate (BuAc=1)	:	No data available.

10. STABILITY AND REACTIVITY:

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

11. TOXICOLOGICAL INFORMATION:

Information on likely routes of exposure

Ingestion

: Irritating. May cause nausea, stomach pain and vomiting.



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Inhalation	May cause irritation to the mucous membranes a central nervous system effects	nd upper respiratory tract. May cause			
Skin contact	: Causes mild skin irritation				
Eye contact	: Causes serious eye irritation.				
Information on toxicological effects					
Acute toxicity (list all possib	e routes of exposure)				
Oral Product	LD 50 (Rat): 4,390 mg/kg				
Dermal Product	LD 50 (Mouse): 4,620 mg/kg . 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	: Irritating to eyes.				
Respiratory or skin sensitization Product	: No data available.				
Carcinogenicity Product	: No data available.				
IARC Monographs on the Evaluation of Carcinogenic Risks to Humans	: No carcinogenic components identified.				
US. National Toxicology Program (NTP) Report on Carcinogens	: No carcinogenic components identified.				
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050 Germ cell mutagenicity	: No carcinogenic components identified.				
In vitro Product	: No data available.				
Reproductive toxicity Product	: May damage fertility or the unborn child				
Specific target organ toxicity - single exposure Product	: Narcotic effect.				
Specific target organ toxicity - repeated exposure Product	: Inhalation - vapor: Liver.				
Aspiration hazard Product	: Not classified.				
Other effects	: None known.				



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12. ECOLOGICAL INFORMA	TION:
Ecotoxicity	
Acute hazards to the aquati	c environment
Fish Product	: No data available.
Aquatic invertebrates Product	: No data available.
Chronic hazards to the aqua	itic environment
Fish Product	: No data available.
Aquatic invertebrates Product	: No data available.
Toxicity to Aquatic Plants Product:	: No data available.
Persistence and degradabili	ty
Biodegradation Product	: There are no data on the degradability of this product.
BOD/COD ratio Product	: No data available.
Bioaccumulative potential	
Bioconcentration factor (BCF) Product	: No data available on bioaccumulation.
Partition coefficient n- octanol / water (log Kow) Product	: No data available.
Specified substance(s)	: Log Kow: -0.77
Mobility in soil	: The product is partly soluble in water. May spread in the aquatic environment.
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 CONSIDERAT	10N:
Disposal instructions	Discharge, treatment, or disposal may be subject to national, state, or local laws. Disposal recommendations are based on uncontaminated material.

		recommendations are based on uncontaminated material.
Contaminated packaging	:	Since emptied containers retain product residue, follow label warnings even after container is emptied.



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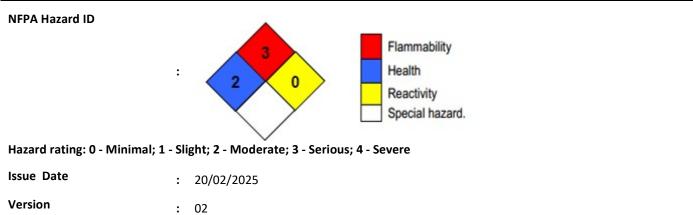
14. TRANSPORT INFORMATION:					
	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT	NA	N,N-Dimethylacetamide	NA	NA	NA
IMDG	NA	N,N-Dimethylacetamide	NA	NA	NA
ΙΑΤΑ	NA	N,N-Dimethylacetamide	NA	NA	NA

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:



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