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MATERIAL SAFETY DATA SHEET

Version :01

PRODUCT NAME: ACETONITRILE

CAS Number: 75-05-8

1. IDENTIFICATION:		
Product Code	90003, 90004, 90005, 90006, 90066, 90099, 90303, 90103, 90703, 90803, 9089 91625, 93510, 94024, 94121, 94255, 96502, 98113, 98113, 98608, 98718, 99502	3, 91174,
Company Name	ADVENT CHEMBIO PRIVATE LIMITED	
Address	W-279, MIDC, TTC INDUSTRIAL AREA, THANE-BELAPUR ROAD, RABALE, NAVI MUMBAI - 400 701.	
E-mail	sales@adventchembio.com	
WEBSITE	www.adventchembio.com	
Company Phone Number	022-27690837	

Suspected of damaging fertility or the unborn child.

Causes damage to organs.

2. HAZARDS IDENTIFICATION:

Hazard classification		
Physical hazards		
Flammable liquids	:	Category 2
Health hazards		
Acute Toxicity(Oral)	:	Category 4
Acute toxicity (Dermal)	:	Category 4
Acute toxicity (Inhalation - vapor)	:	Category 4
Skin corrosion/irritation	:	Category 2
Serious eye damage/eye irritation	:	Category 2
Toxic to reproduction	:	Category 2
Specific target organ toxicity - single exposure	:	Category 1
Labels elements		
Hazard symbol	:	
Signal word	:	Danger
Hazard statement	:	Toxic in contact with skin. Toxic if inhaled. Toxic if swallowed. Highly flammable liquid and vapor. Causes skin irritation.
	•	Causes skin irritation. Causes serious eye irritation.



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Precautionary statement			
Prevention	precautions have been rea Wear protective gloves/ pr Keep away from heat/ spa Keep container tightly clos Use explosion-proof electr Use only non-sparking too	me/gas/mist/vapors/spray. d and understood. otective clothing/eye protection rks/open flames/hot surfaces. N ed. Ground/bond container and ical/ventilating/lighting/equipm ls. Take precautionary measures a	/ face protection. o smoking. receiving equipment. nent.
Response	 IF exposed or concerned: Get medical advice/ attention. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact le 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			itly closed. Containers which are event leakage. Handle and store
Disposal	accordance with applicab disposal.	le laws and regulations, and pr	tment and disposal facility in oduct characteristics at time of
Other hazards which do not	: Static accumulating flamm	able liquid can become electros	tatically charged even in handed
result in GHS classification	and grounded equipment explosion.	•	vapor. May cause flash fire or
	• • • •	•	
	explosion.	•	
3. COMPOSITION/ INFORM Ingredient	explosion. ATION ON INGRADIENTS:	. Sparks may ignite liquid and	vapor. May cause flash fire or
3. COMPOSITION/ INFORM Ingredient	explosion. ATION ON INGRADIENTS: CAS Number	. Sparks may ignite liquid and Percent	vapor. May cause flash fire or Hazardous
3. COMPOSITION/ INFORM Ingredient Acetonitrile	explosion. ATION ON INGRADIENTS: CAS Number 75-05-8 Get medical advice/attent attendance.	Sparks may ignite liquid and Percent 99 - 100%	vapor. May cause flash fire or Hazardous Yes
 COMPOSITION/ INFORM Ingredient Acetonitrile FIRST AID MEASURES: 	explosion. ATION ON INGRADIENTS: CAS Number 75-05-8 Get medical advice/attent attendance. Call a physician or poiso vomiting. If vomiting occulungs.	Percent 99 - 100% ion if you feel unwell. Show this son control center immediately. Irs, keep head low so that stoma	vapor. May cause flash fire or Hazardous Yes safety data sheet to the doctor in Rinse mouth. Do NOT induce ach content doesn't get into the
 COMPOSITION/ INFORM Ingredient Acetonitrile FIRST AID MEASURES: General information 	explosion. ATION ON INGRADIENTS: CAS Number 75-05-8 Get medical advice/attent attendance. Call a physician or poiso vomiting. If vomiting occulungs. Move to fresh air. Call a p provide artificial respiratio	Percent 99 - 100% ion if you feel unwell. Show this s on control center immediately. Irs, keep head low so that stoma hysician or poison control center n. If breathing is difficult, give oxy	vapor. May cause flash fire or Hazardous Yes Safety data sheet to the doctor in Rinse mouth. Do NOT induce ach content doesn't get into the
 COMPOSITION/ INFORM Ingredient Acetonitrile FIRST AID MEASURES: General information Ingestion 	explosion. ATION ON INGRADIENTS: CAS Number 75-05-8 Get medical advice/attent attendance. Call a physician or poiso vomiting. If vomiting occulungs. Move to fresh air. Call a p provide artificial respiratio Get medical attention if sy Wash skin thoroughly with	Percent 99 - 100% ion if you feel unwell. Show this s on control center immediately. Irs, keep head low so that stoma hysician or poison control center n. If breathing is difficult, give oxy mptoms persist. n plenty of water for at least 15	Vapor. May cause flash fire or Hazardous Yes Safety data sheet to the doctor in Rinse mouth. Do NOT induce ach content doesn't get into the immediately. If breathing stops,
 3. COMPOSITION/ INFORM Ingredient Acetonitrile 4. FIRST AID MEASURES: General information Ingestion Inhalation 	explosion. ATION ON INGRADIENTS: CAS Number 75-05-8 Get medical advice/attent attendance. Call a physician or poiso vomiting. If vomiting occulungs. Move to fresh air. Call a p provide artificial respiratio Get medical attention if sy Wash skin thoroughly witl clothing and shoes. Get m before reuse.	Percent 99 - 100% on if you feel unwell. Show this s on control center immediately. Its, keep head low so that stoma hysician or poison control center n. If breathing is difficult, give oxy mptoms persist. n plenty of water for at least 15 edical attention if symptoms occ	vapor. May cause flash fire or Hazardous Yes safety data sheet to the doctor in Rinse mouth. Do NOT induce ach content doesn't get into the immediately. If breathing stops, ygen. minutes. Remove contaminated



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and delayed	
Indication of immediate medical attention and special treatment needed	: The exposure should be treated as a cyanide poisoning. Symptoms may be delayed.
5. FIRE FIGHTING MEASUR	ES:
General information	: Flammable liquid and vapor.
Suitable (and unsuitable) ext	tinguishing media
Suitable extinguishing media	: Water spray, foam, dry powder or carbon dioxide.
Unsuitable extinguishing media	: Avoid water in straight hose stream; will scatter and spread fire.
Specific hazards arising from the chemical	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. Vapor from the solvent may accumulate in container headspace resulting in flammability hazard. Heat may cause the containers to explode.
Special protective equipmen	and precautions for firefighters
Special firefighting procedures	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.
Special protective equipment for fire-fighters	Firefighters must use standard protective equipment including flame retardant coat, helme with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
6. ACCIDENTAL RELEASE M	IEASURES:
Personal precautions, protective equipment and emergency procedures	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area) Avoid breathing mists or vapors. Keep upwind. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.
Methods and material for containment and cleaning up	Eliminate all ignition sources if safe to do so. Use only non-sparking tools. Take precautionary measures against static discharges. Stop leak if possible without any risk : Absorb spill with vermiculite or other inert material, then place in a container for chemica
	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 in 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 STORAG	GE:
Precautions for safe handling	Do not handle until all safety precautions have been read and understood. DO NOT handle store or open near an open flame, sources of heat or sources of ignition. Protect materia from direct sunlight. Take precautionary measures against static discharges. Ground/bonc : container and receiving equipment. Use explosion-proo 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 mis



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or vapor. Use only with adequate ventilation. Wash hands thoroughly after handling.

Conditions for safe storage, including any incompatibilities Keep away from food, drink and animal feeding stuffs. Keep container tightly closed in a dry, well-ventilated place. Store in a dry place. 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.

Control parameters			
Occupational exposure lim	its		
Chemical identity	Туре	Exposure Limit values	Source
ACETONITRILE	TWA	20 ppm	US. ACGIH Threshold Limit Value (2011)
	REL	20 ppm 34 mg/m3	US. NIOSH: Pocket Guide to Chemica Hazards (2010)
	PEL	40 ppm 70 mg/m3	US. OSHA Table Z-1 Limits for A Contaminants (29 CFR 1910.1000) (0 2006)
	TWA	40 ppm 70 mg/m3	US. OSHA Table Z-1-A (29 CF 1910.1000) (1989
	STEL	60 ppm 105 mg/m3	US. OSHA Table Z-1-A (29 CF 1910.1000) (1989)
Appropriate engineering			
controls	: No data av	ailable	
Individual protection meas	sures, such as pers	onal protective equipment	
General information	rates shou ventilation exposure l acceptable	Id be matched to conditions. If ap , or other engineering controls to imits. If exposure limits have not be	hanges per hour) should be used. Ventilatio plicable, use process enclosures, local exhaus maintain airborne levels below recommende een established, maintain airborne levels to a ower must be available in the immediate wor ent.
Eye/face protection		y glasses with side shields (or gogg	
Hand protection	: Chemical r	esistant gloves.	
Other	: Wear suita	ble protective clothing.	
Respiratory protection	: vapor carti	ridge.	e respirator. Chemical respirator with organicasures, such as washing after handling th
			smoking. Routinely wash work clothing an



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9. PHYSICAL AND CHEMICAL PROPERTIES:		
Appearance	:	Clear, colorless liquid
Odor	:	Ether odor
Solubility	:	Miscible in water.
Molecular Formula	:	CH₃CN
Molecular Weight	:	41.05 g/mol
Specific Gravity	:	0.782
рН	:	No data available.
% Volatiles by volume @ 21C (70F)	:	100
Boiling Point	:	81.6°C (180F)
Melting Point	:	-46°C (-51F)
Flash Point	:	2.0 °C
Vapor Density (Air=1)	:	1.4
Vapor Pressure (mm Hg)	:	73 @ 20C (68F)
Evaporation Rate (BuAc=1)	:	5.79
10. STABILITY AND REACTIV	TTY:	
Reactivity	:	No dangerous reaction known under conditions of normal use.

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. Strong acids. Nitrates.
Hazardous decomposition products	:	Thermal decomposition may release oxides of carbon.

11. TOXICOLOGICAL INFORMATION:

General information	:	Cyanosis may result from overexposure to vapor or skin exposure.
Information on likely route	s of ex	posure
Ingestion	:	Irritating. May cause nausea, stomach pain and vomiting.
Inhalation	•	May cause irritation to the mucous membranes and upper respiratory tract. May cause central nervous system effects



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Skin contact	Causes mild skin irritation	
Eye contact	Causes serious eye irritation.	
Information on toxicological	ects	
Acute toxicity (list all possib	utes of exposure)	
Oral Product	LD 50 (Rat): 1,320 mg/kg.	
Dermal Product	LD 50 (Rabbit): > 2,000 mg/kg.	
Inhalation Product	LC 50 (Rabbit, 4 h): 2828 ppm. LC 50 (Rat, 8 h): 7500 ppm.	
Repeated dose toxicity Product	No data available.	
Skin corrosion/irritation Product	Prolonged or repeated skin contact may cause drying, cracking, or irritation	
Serious eye damage/eye irritation Product	Irritating to eyes.	
Respiratory or skin sensitization Product	Not a skin sensitizer.	
Carcinogenicity Product	This substance has no evidence of carcinogenic properties	
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 mutagenic components identified.	
Reproductive toxicity Product	No components toxic to reproduction.	
Specific target organ toxicity - single exposure Product	None known.	
Specific target organ toxicity - repeated exposure Product	None known.	
Aspiration hazard Product	Not classified.	
Other effects	None known.	



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12. ECOLOGICAL INFORMATION:

Ecotoxicity Acute hazards to the aquati	c environment :
Fish Product Aquatic invertebrates Product	 LC 50 (Fathead minnow (Pimephales promelas), 96 h): 1,000 mg/l Mortality LC 50 (Bluegill (Lepomis macrochirus), 96 h): 1,850 mg/l Mortality LC 50 (Carp (Leuciscus idus melanotus), 48 h): 5,850 mg/l Mortality. LC 50 (Brine shrimp (Artemia salina), 24 h): 328 - 486 mg/l Mortality LC 50 (Water flea (Daphnia magna), 48 h): 3,600 mg/l Mortality.
Chronic hazards to the aqua	tic 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	: No data on the degradability of this product.
BOD/COD ratio Product	: No data available.
Bioaccumulative potential	
Bioconcentration factor (BCF) Product Partition coefficient n-	: No data available on bioaccumulation.
octanol / water (log Kow) Product	: No data available.
Specified substance(s) METHANOL	: Log Kow: -0.34
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	ION:
Disposal instructions	: Discharge, treatment, or disposal may be subject to national, state, or local laws.
Contaminated packaging	Since emptied containers retain product residue, follow label warnings even after container is emptied.



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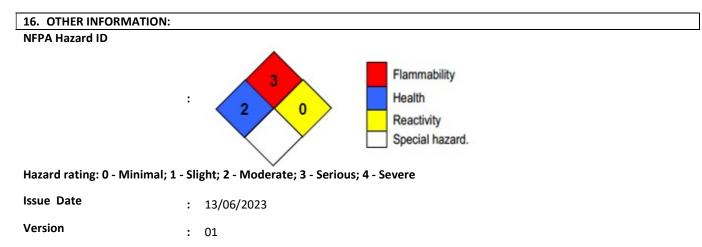
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	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT	UN 1648	Acetonitrile	3	II	No
IMDG	UN 1648	Acetonitrile	3	Ш	No
ΙΑΤΑ	UN 1648	Acetonitrile	3	Ш	No

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.



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