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MATERIAL SAFETY DATA SHEET

Version :01

PRODUCT NAME: ETHYL BENZENE

CAS Number: 100-41-4

1. IDENTIFICATION:		
Product Code	91871, 98364	
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	

2. HAZARDS IDENTIFICATION:

Hazard classification		
Physical hazards		
Flammable liquids	:	Category 2
Health hazards		
Acute toxicity, Inhalation	:	Category 4
Aspiration hazard	:	Category 1
Specific target organ toxicity - repeated exposure, Oral	:	Category 2
Long-term (chronic) aquatic hazard	:	Category 3
Labels elements	:	
Hazard symbol	:	
Signal word	:	Danger
Hazard statement	:	Highly flammable liquid and vapor. May be fatal if swallowed and enters airways. Harmful if inhaled. May cause damage to organs (hearing organs) through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects.
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. Keep container tightly closed. Ground/ bond container and receiving equipment.



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Response	se explosion-proof electrical/ ventilating/ lighting/ equipment. se only non-sparking tools. Take precautionary measures against static discha exposed or concerned: Get medical advice/ attention. ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse ski	-
	nower. IN EYES: Rinse cautiously with water for several minutes. Remove cont resent and easy to do. Continue rinsing.	act lenses, if
	 INHALED: Remove person to fresh air and keep comfortable for breathing. SWALLOWED: Immediately call a POISON CENTER or doctor/physician. 	
Storage	tore in a dry & well-ventilated place. Keep container tightly closed. Containe pened must be carefully resealed and kept upright to prevent leakage.	ers which are
Disposal	ispose of contents/container to an appropriate treatment and dispos ccordance with applicable laws and regulations, and product characteristic isposal.	
Other hazards which do not result in GHS classification	his substance/mixture contains no components considered to be eithe ioaccumulative and toxic (PBT), or very persistent and very bioaccumulat evels of 0.1% or higher.	•

3. COMPOSITION/ INFOR	MATION ON INGRADIENTS:		
Ingredient	CAS Number	Percent	Hazardous
Ethyl Benzene	100-41-4	NLT 99.0%	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	: The most important known symptoms and effects are described in the labelling 2.
Indication of immediate medical attention and special treatment needed	: No data available.



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5. FIRE FIGHTING MEASUR	-S:
General information	: Flammable liquid and vapor.
Suitable (and unsuitable) ext	inguishing 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 distanc to a source of ignition and flash back. Prevent buildup of vapors or gases to explosiv concentrations. Vapor from the solvent may accumulate in container headspace resulting i flammability hazard. Heat may cause the containers to explode.
Special protective equipmen	t and precautions for firefighters
Special firefighting procedures	Use water spray to keep fire-exposed containers cool. Water may be ineffective in fightin the fire. Fight fire from a protected location. Move containers from fire area if you can do s 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	EASURES:
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 enterin them. Do not touch damaged containers or spilled material unless wearing appropriat 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. Tak precautionary measures against static discharges. Stop leak if possible without any risl 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 large
Notification Procedures	spill for later recovery and disposal. Prevent entry into waterways, sewer, basements or confined areas. Inform authorities large amounts are involved.
Environmental precautions	Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to d so. Avoid discharge into drains, water courses or onto the ground.
7. HANDLING AND STORAG	E:
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/bon : container and receiving equipment. Use explosion-proc electrical/ventilating/lighting/equipment. Use only non-sparking tools. Wear protectiv gloves/protective clothing/eye Protection / face protection. Avoid contact with eyes, skin, and clothing. Do not breath mist or vapor. Use only with adequate ventilation. Wash hands thoroughly after handling.



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including anywell-ventilated pincompatibilitiessparks. Comply w	food, drink and animal feeding stuffs. Keep container tightly closed in a dry, lace. Ground container and transfer equipment to eliminate static electric vith all national, state, and local codes pertaining to the storage, handling, lisposal of flammable liquids.
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8. EXPOSURE CONTROLS	PERSONAL PROTECTION:
Control parameters	
Appropriate engineering controls	: No data available
Individual protection meas	ures, 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. Chemical respirator with organic vapor cartridge. Always observe good personal hygiene measures, such as washing after handling the
Hygiene measures	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:

Appearance	Clear, colorless liquid	
Odor	Aromatic	
Solubility	Slightly soluble in water.	
Formula	C ₆ H ₅ C ₂ H ₅	
Molecular Weight	106.17 g/mol	
Specific Gravity	0.866 - 0.877 g/cm3 at 20°C	
рН	No data available.	
% Volatiles by volume @ 21C (70F)	No data available.	
Boiling Point	136,1 °C at 1.013,3 hPa	



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Melting Point	:	-94,9 °C at 101,3 hPa
Flash Point	:	23 °C
Vapor Density (Air=1)	:	No data available.
Vapor Pressure (mm Hg)	:	9,52 hPa at 20 °C
Evaporation Rate (BuAc=1)	:	No data available.
10. STABILITY AND REACTIV	ITY:	
Reactivity	:	Vapors may form explosive mixture with air.
Chemical stability	:	Material is stable under ambient conditions
Possibility of hazardous reactions	:	Violent reactions possible with: Strong oxidizing agents
Conditions to avoid		Heat, sparks, flames. Sunlight.

Incompatible materials	:	Rubber, various plastics.
Hazardous decomposition		In the event of fire: see section 5
products	·	in the event of file. See Section 5

11. TOXICOLOGICAL INFORMATION:

Information on likely routes	of exposure	
Ingestion	: No data available.	
Inhalation	: No data available.	
Skin contact	: Causes mild skin irritation.	
Eye contact	: Causes serious eye irritation.	
Information on toxicologica	effects	
Acute toxicity (list all possib	e routes of exposure)	
Oral Product	: LD 50 Rat - male and female - 3.500 mg/kg.	
Dermal Product	: LD 50 Rabbit - 15.433 mg/kg.	
Inhalation Product	. LD 50 Rat - male - 4 h - 17,8 mg/l – vapor.	
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.	



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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 data available.
Reproductive toxicity Product	:	No components toxic to reproduction.
Specific target organ toxicity - single exposure Product	:	Not known.
Specific target organ toxicity - repeated exposure Product	:	May cause damage to organs through prolonged or repeated exposure hearing organs.
Aspiration hazard Product	:	May be fatal if swallowed and enters airways
Other effects	:	No data available.
12. ECOLOGICAL INFORMAT	ION	:

Ecotoxicity

Acute hazards to the aquatic environment

Fish Product	:	LC50 - Oncorhynchus mykiss (rainbow trout) - 4,2 mg/l.
Aquatic invertebrates Product Chronic hazards to the aquati	: ce	EC50 - Daphnia magna (Water flea) - 1,8 - 2,4 mg/l. nvironment
Fish Product	:	No data available.
Aquatic invertebrates Product	:	No data available.
Toxicity to Aquatic Plants Product:	:	No data available.
Persistence and degradability	,	
Biodegradation Product	:	ca.79 % - Readily biodegradable.
BOD/COD ratio Product	:	No data available.
Bioaccumulative potential		



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Bioconcentration factor (BCF) Product	: No data a	available on bioaccumulation.					
Partition coefficient n- octanol / water (log Kow) Product	: No data a	available.					
Mobility in soil	: No data a	available.					
Other adverse effects	: No data a	available.					
13. DISPOSAL CONSIDERATI	ION:						
Disposal instructions Contaminated packaging	recomme Since em	 Discharge, treatment, or disposal may be subject to national, state, or local laws. Disposal recommendations are based on uncontaminated material. Since emptied containers retain product residue, follow label warnings even after container is emptied. 					
14. TRANSPORT INFORMAT	ION:						
14. TRANSPORT INFORMAT	UN No.	UN proper shipping name	Hazard Class(es)	Packaging	Marine Pollutant		
		UN proper shipping name Ethyl Benzene	Hazard Class(es) 3	Packaging group II	Marine Pollutant No		
<u>14. TRANSPORT INFORMAT</u> DOT IMDG	UN No.	name	Class(es)	group	Pollutant		

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.



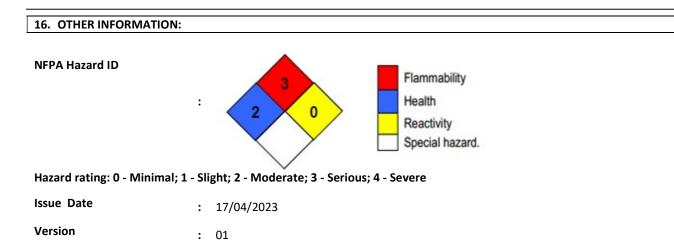
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