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MATERIAL SAFETY DATA SHEET

Product Name: Ethyl acetate CAS No.: 141-78-6 Version: 0

1. Identification

Product Code : 90021, 90162, 90406, 90891

Company Name : Advent Chembio Private Limited

Address : W-288, MIDC, TTC INDUSTRIAL AREA, THANE-BELAPUR

ROAD, RABALE, NAVI MUMBAI - 400 701.

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2. Composition/Information on Ingredients

IngredientCAS NoPercentETHYL ACETATE141-78-699- 100%

3. Hazards Identification

Hazard classification

Physical hazards

Flammable liquids : Category 2

Health hazards

Skin corrosion/irritation : Category 3
Serious eye damage/eye irritation : Category 2
Specific target organ toxicity - single : Category 3

exposure

Labels elements Hazard symbol



Signal word : Danger

Hazard statement: Highly flammable liquid and vapor.

Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness.

Precautionary statement





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Prevention Keep away from heat/sparks/open flames/hot surfaces. No smoking.

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. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear protective gloves/eye protection/face protection. Use only outdoors or in a well-ventilated area. Wash hands thoroughly after handling.

In case of fire: Use water spray, foam, dry powder or carbon dioxide Response

> for extinction. 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 eye irritation persists: Get medical advice/attention. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Call a POISON CENTER/doctor if you feel unwell.

Store in a well-ventilated place. Keep cool. Keep container tightly **Storage**

closed. Store locked up.

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.

Static accumulating flammable liquid can become electrostatically Other hazards which do not result in GHS classification

charged even in bonded and grounded equipment. Sparks may ignite

liquid and vapor. May cause flash fire or explosion.

4. First Aid Measures

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 Call a physician or poison control center immediately. Do NOT

induce vomiting. If vomiting occurs, keep head low so that stomach

content doesn't get into the lungs.

Move to fresh air. Get medical attention if symptoms persist. **Inhalation**

Wash skin thoroughly with soap and water. Remove contaminated Skin contact

clothing and shoes. Wash contaminated clothing before reuse.

Destroy or thoroughly clean contaminated shoes.

Immediately flush with plenty of water for at least 15 minutes. If Eye contact

easy to do, remove contact lenses. Get medical attention.

Most important symptoms/effects,

acute and delayed

Indication of immediate medical attention and special treatment

needed

Irritating to eyes, respiratory system and skin.

Treat symptomatically. Symptoms may be delayed.





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5. Fire fighting measures

General fire hazards : Flammable liquid and vapor.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray, foam, dry powder or carbon dioxide.

Unsuitable extinguishing media Specific hazards arising from the

chemical

Avoid water in straight hose stream; will scatter and spread fire.
Can be ignited easily and burns vigorously. 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.

Special protective equipment and precautions for firefighters

Special fire fighting procedures : Move containers from fire area if you can do so without risk. Use

water spray to keep fire-exposed containers cool. Cool containers exposed to flames with water until well after the fire is out. Water may be ineffective in fighting the fire. Fight fire from a protected

location.

Special protective equipment for

fire-fighters

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

: Keep unauthorized personnel away. Keep upwind. Ventilate closed spaces before entering them. Use personal protective equipment. Do not touch damaged containers or spilled material unless wearing

appropriate protective clothing.

Methods and material for containment and cleaning up

: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Dike far ahead of larger spill for later recovery and disposal. Eliminate all ignition sources if safe to do so. Use only non-sparking tools. All equipment used when handling the

product must be grounded.

Notification Procedures : Dike for later disposal. Prevent entry into waterways, sewer,

basements or confined areas. Stop the flow of material, if this is without risk. 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. Avoid discharge into drains, water

courses or onto the ground.





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7. Handling and Storage

Precautions for safe handling

DO NOT handle, 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. Use personal protective equipment as required. Avoid breathing mists or vapors. Avoid contact with eyes, skin, and clothing. Do not taste or swallow. 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 cool, 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, dispensing, and disposal of flammable.

8. Exposure Controls Personal Protection

Control parameters

Occupational exposure limits

O COMPANIONAL CITY OSCILLA MIMAGE						
Chemical identity	Type	Exposure Limit values	Source			
DIMETHYL	TWA	400 ppm	US. ACGIH Threshold Limit Values (2011)			
ACETAMIDE						
	REL	400 ppm 1400 mg/m3	US. NIOSH: Pocket Guide to Chemical			
			Hazards (2010)			
	PEL	400 ppm 1400 mg/m3	US. OSHA Table Z-1 Limits for Air			
			Contaminants (29 CFR 1910.1000) (02 2006)			
	TWA	400 ppm 1400 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000)			
			(1989			

Appropriate engineering controls : No data available.

Individual protection measures, 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) and a face shield.

Hand protection : Chemical resistant gloves .Other : Wear suitable protective clothing.

Respiratory protection : If engineering controls do not maintain airborne concentrations below

recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Respirator type: Chemical respirator





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with organic vapor cartridge and full face piece.

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.

9. Physical and Chemical Properties

Appearance : Colorless liquid.

Odor : Fruity.

pH : No data available.

Melting point/freezing point : -83 °C Initial boiling point and boiling : 77 °C

range

Flash Point : -4 °C

Vapor pressure:12.4 kPa (25 °C)Vapor density:3.04 AIR=1Relative density:0.9 (20 °C)Solubility in water:100 g/l (25 °C)Solubility (other):No data available.Formula: $CH_3COOC_2H_5$

Molecular Weight : 88.10

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.

Incompatible materials : Strong oxidizing agents. Strong alkalis. Strong acids. Nitrates. May

attack some plastics, rubber and coatings.

Hazardous decomposition products : Thermal decomposition may release oxides of carbon.





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11. **Toxicological Information**

Information on likely routes of exposure

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

Inhalation May cause irritation to the respiratory system. May cause

drowsiness or dizziness.

Skin contact Causes mild skin irritation. Causes serious eye irritation. Eye contact

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral Product LD 50 (Rat): 5.6 g/kg

Dermal Product LD 50 (Rabbit): > 18,000 mg/kg. **Inhalation Product** LD 50 (Mouse, 4 h): 1,500 mg/l.

Repeated dose toxicity Product No data available.

Skin corrosion/irritation Product Causes mild skin irritation. Serious eve damage/eve irritation Causes serious eye irritation.

Product

Not a skin sensitizer. Respiratory or skin sensitization

Product

Carcinogenicity Product This substance has no evidence of carcinogenic properties.

No carcinogenic components identified.

No carcinogenic components identified.

No carcinogenic components identified.

IARC Monographs on the

Evaluation of Carcinogenic Risks

to Humans DIOXANE

US. National Toxicology Program

(NTP) Report on Carcinogens

DIOXANE

US. OSHA Specifically Regulated

Substances (29 CFR 1910.1001-

1050

Germ cell mutagenicity

In vitro Product No mutagenic components identified. In vivo Product No mutagenic components identified. **Reproductive toxicity Product** No mutagenic components identified. Narcotic effect. Respiratory tract irritation. Specific target organ toxicity -

single exposure Product

Specific target organ toxicity -

repeated exposure Product

None known.

Aspiration hazard Product May be harmful if swallowed and enters airways.

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): LC 50 (Fathead minnow (Pimephales promelas), 96 h): 220 - 250

ETHYL ACETATE mg/l Mortality

LC 50 (Rainbow trout, donaldson trout (Oncorhynchus mykiss), 96

h): 352 - 500 mg/l Mortality

LC 50 (Carp (Leuciscus idus melanotus), 48 h): 270 mg/l

Mortality

Aquatic invertebrates Product : No data available.

Specified substance(s): ETHYL : EC 50 (Brine shrimp (Artemia salina), 24 h): 306.9 - 389.9 mg/l

ACETATE Intoxication

LC 50 (Hydra (Hydra oligactis), 48 h): 1,350 mg/l Mortality LC 50 (Water flea (Daphnia cucullata), 48 h): 154 mg/l Mortality .

Chronic hazards to the aquatic environment:

Fish Product : No data available.

Aquatic invertebrates Product : No data available.

Toxicity to Aquatic Plants Product: No data available.

Persistence and degradability

Biodegradation Product : Expected to be readily biodegradable.

BOD/COD ratio Product : No data available.

Bioaccumulative potential

Bioconcentration factor (BCF) : No data available on bioaccumulation.

Product

Partition coefficient n-octanol /

water (log Kow) Product

Mobility in soil : The product is water soluble and may spread in water systems.

Log Kow: 0.73

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 : 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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14. Transport Information

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT	UN 1173	ETHYL ACETATE	3	II	No
IMDG	UN 1173	ETHYL ACETATE	3	II	No
IATA	UN 1173	ETHYL ACETATE	3	II	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.

16. Other Information

NFPA Hazard ID



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

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Version :0

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