









THE ANDHRA PETROCHEMICALS LIMITED, VISAKHAPATNAM.
MATERIAL SAFETY DATA SHEET (MSDS)
2-ETHYL HEXANOL

SECTION-1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION				
Product Identifier:				
Material Name:	2-ETHYL HEXANOL			
Chemical formula:	CH ₃ (CH ₂) ₃ CH(C ₂ H ₅) CH ₂ OH			
CAS. No:	104-76-7			
Synonyms:	2-EH; 2-Ethyl-1-Hexanol; 2-Ethylhexyl alcohol			
Applications:	Manufacturing of PVC, Plasticizers, Antifoam Agents, Solvents, etc.			
Company Identifier:				
Address Details:		Manufacturer		Corporate marketing office/ Supplier
Name:	The Andhra Petrochemicals Limited		The Andhra Petrochemicals Limited	
Street:	P.B.No.1401, Opp: Naval Dockyard		P.B.No.1401, Opp: Naval Dockyard	
City:	Visakhapatnam		Visakhapatnam	
State/Country:	Andhra Pradesh, INDIA		Andhra Pradesh, INDIA	
Postal Code:	530014		530014	
Tel.Nos:	+91-891-2891500/496/414/410		+91-891-2891487/488	
E-Mail:	info.vskp@theandhrapetrochemicals.com		mktg.vskp@theandhrapetrochemicals.com	
SECTION-2: HAZARD IDENTIFICATION				
GHS Hazard pictograms:	 (Irritant)			
Signal word:	Warning			
NFPA hazard Codes: (NFPA 704)				
Hazard	Color Code	Value	Description	Diamond
Health		2	Can cause temporary incapacitation or residual injury.	
Flammability		2	Must be moderately heated or exposed to relatively high ambient temperature before ignition can occur.	
Stability/Reactivity		0	Normally stable, even under fire conditions.	
Special		-	-	
<i>Rating system: 0 = No Hazard, 1 = Slight Hazard, 2 = Moderate Hazard, 3 = Serious Hazard, 4 = Severe Hazard.</i>				
Hazard Statements:				
H227	Combustible liquid			



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H315	Causes skin irritation [Warning: Skin corrosion/irritation]
H319	Causes serious eye irritation [Warning: Serious eye damage/eye irritation]
H332	Harmful if inhaled [Warning: Acute toxicity, inhalation]
H335	May cause respiratory irritation. [Warning: Specific target organ toxicity, single exposure; Respiratory tract irritation]
Precautionary Statements (Prevention):	
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P210	Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources; No smoking.
P271	Use only outdoors or in a well-ventilated area.
P261	Avoid breathing fume/mist/vapors/spray.
P264	Wash hands thoroughly after handling.
Precautionary Statements (Response):	
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do; Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P302 + P352	IF ON SKIN: Wash with plenty of water and soap.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a poison center or doctor if you feel unwell.
P370 + P378	In case of fire: Use CO ₂ , dry chemical (or) alcohol resistant foam to extinguish.
Precautionary Statements (Storage):	
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
Precautionary Statements (Disposal):	
P501	Dispose of contents and container to an appropriate treatment and disposal facility in accordance with local and national regulations.
<u>SECTION-3: COMPOSITION/INFORMATION ON INGREDIENTS</u>	
Ingredients / Composition:	
2-Ethyl Hexanol:	99.5% (wt min)
Water:	0.1% (wt max)
Acidity as acetic acid:	0.015% (wt max)
Aldehyde (as 2-Ethyl Hexanal):	0.1% (wt max)



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<u>SECTION-4: FIRST AID MEASURES</u>	
Inhalation:	If Inhaled remove to fresh air. If not breathing gives artificial respiration. If breathing is difficult, give oxygen.
Skin Contact:	In case of skin contact, immediately flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician. Wash contaminated clothing before reuse.
Eye contact:	In case of contact with the eyes, immediately flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a Physician.
Ingestion:	If swallowed, wash out mouth with water provided person is conscious. Call a Physician.
<u>SECTION-5: FIRE FIGHTING MEASURES</u>	
Flash Point:	73°C
Auto-ignition Temp.:	231°C
Lower Explosion Limit:	0.9% at 104°C
Upper Explosion Limit:	9.7% at 113°C
EXTINGUISHING MEDIA:	SUITABLE: Carbon dioxide, dry chemical powder, alcohol resistant foam. UNSUITABLE: Water may be effective for cooling but may not be effective to extinguish.
SPECIFIC HAZARD(S): Emits toxic fumes under fire conditions.	
SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Combustible liquid.	
<u>SECTION-6: ACCIDENTAL RELEASE MEASURES</u>	
PERSONAL PRECAUTIONS: Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.	
METHODS FOR CLEANING UP: Absorbs on sand or vermiculite and place in closed containers for disposal. Ventilate the area and wash spill site after material pickup is complete. Large Spillages: Flush spill area with water spray. Prevent runoff from entering drains, sewers, or streams. Dike for later disposal.	
<u>SECTION-7: HANDLING AND STORAGE</u>	
HANDLING: Do not breathe vapor. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling.	
STORAGE: Keep container closed. Store in cool place. Keep away from heat, sparks, and open flame.	
<u>SECTION-8: EXPOSURE CONTROLS / PERSONAL PROTECTION</u>	
ENGINEERING CONTROLS: Safety shower and eye bath. Mechanical exhaust required.	



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GENERAL HYGIENE MEASURES:

Wash thoroughly after handling.

PERSONAL PROTECTIVE EQUIPMENT:	Respiratory Protection:	Appropriate NIOSH/MSHA approved respirator
	Hand protection:	Compatible chemical resistant gloves.
	Eyes /face protection:	Chemical safety Goggles, Face Shield

SECTION-9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Molecular weight: 130.23

Boiling point: 182°C @ 760 mmHg

Melting Point: Minus 76°C

Flash Point: 73°C

Auto-ignition Temp.: 231°C

Explosion Limits: Lower: 0.9% at 104°C, Upper: 9.7% at 113°C

Vapor Pressure: 0.2 mmHg at 20°C

Relative liquid density: 0.834 (Water: 1)

Relative vapor density: 4.5 (Air: 1)

SECTION-10: STABILITY AND REACTIVITY

STABILITY: Stable.

HAZARDOUS POLYMERISATION:

Not Applicable

MATERIALS TO AVOID:

Oxidizing agents, Strong acids.

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS:

Toxic fumes of Carbon monoxide, Carbon dioxide.

SECTION-11: TOXICOLOGICAL INFORMATION

ACUTE EFFECTS	Harmful if swallowed, inhaled, or absorbed through skin; Causes skin and eye irritation; Material is irritating to the eyes, mucous membranes, and upper respiratory tract. It appears that the chemical, physical and toxicological properties have not been thoroughly investigated; Target organs: Liver, Kidneys.
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SECTION-12: ECOLOGICAL INFORMATION

No data available

SECTION-13: DISPOSAL CONSIDERATIONS

Waste Disposal method:

Burn in a chemical incinerator equipped with an after burner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state and local environmental regulations.



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SECTION-14: TRANSPORT INFORMATION

Combustible liquid. Not regulated as a dangerous good.

SECTION-15: REGULATORY INFORMATION

CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES

R-PHRASES: (Risk phrases)

R:20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
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R:36/37/38	Irritating to eyes, respiratory system, and skin
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R:41	Risk of serious damage to the eyes
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S-PHRASES: (Safety phrases)

S:26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
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S:36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
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SECTION-16: OTHER INFORMATION

Information contained in this Material Safety Data Sheet is to the best of knowledge and believed to be reliable but no representation, guarantee or warranties of any kind are made as to its accuracy, suitability for a particular application or results to be obtained from them. It is up to the User / Distributor to ensure that the information contained in the Material Safety Data Sheet are based on current knowledge and experience and describe the product only regarding safety requirements and is relevant to the product manufactured / handled or sold. M/s APL makes no warranties, expressed or implied, in respect of the adequacy of this document for any particular purpose concerning the information provided herein.