

Pg. 1 of 8

Version:02

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: 1-PENTANOL (n-AMYL ALCOHOL) CAS Number: 71-41-0

1. IDENTIFICATION:

Product Code : 90638, 99002, 98195

Company Name : ADVENT CHEMBIO PRIVATE LIMITED

Address W-279, MIDC, TTC INDUSTRIAL AREA, THANE-BELAPUR ROAD, RABALE,

NAVI MUMBAI - 400 701, MAHARASHTRA, INDIA.

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Company Phone Number : +91 77770 84837

2. HAZARDS IDENTIFICATION:

Hazard classification

Physical hazards

Flammable liquids : Category 3

Health hazards

Acute toxicity, Inhalation : Category 4

Skin irritation : Category 2

Serious eye damage : Category 1

Specific target organ

Hazard symbol

Signal word

toxicity - single exposure,

Respiratory system

.....

Labels elements :

Hazard statement Highly flammable liquid and vapor.

: Danger

Category 3

Causes skin irritation.

: Causes serious eye damage.

Harmful if inhaled.

May cause respiratory irritation.

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.



Pg. 2 of 8

Version:02

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: 1-PENTANOL (n-AMYL ALCOHOL) CAS Number: 71-41-0

Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools. Take precautionary measures against static discharge.

Response : 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

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at

levels of 0.1% or higher.

3. COMPOSITION/ INFORMATION ON INGRADIENTS:

Ingredient	CAS Number	Percent	Hazardous
1-Pentanol (n-Amyl Alcohol)	71-41-0	NLT 98.0%	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. If breathing stops, provide artificial respiration. If breathing is difficult,

Inhalation : 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

Indication of immediate

medical attention and

special treatment needed

: The most important known symptoms and effects are described in the labelling.

: No data available.

5. FIRE FIGHTING MEASURES:

General information : Flammable liquid and vapor.



Pg. 3 of 8

MATERIAL SAFETY DATA SHEET

Version:02

PRODUCT NAME: 1-PENTANOL (n-AMYL ALCOHOL) CAS Number: 71-41-0

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media

: Carbon dioxide (CO2), Foam, Dry powder

Unsuitable extinguishing

media

 $: \quad \text{For this substance/mixture no limitations of extinguishing agents are given}. \\$

Specific hazards arising from the chemical

Nature of decomposition products not known. Combustible.

Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air at elevated temperatures. Development of hazardous combustion gases or vapours possible

in the event of fire.

Special protective equipment and precautions for firefighters

Special firefighting procedures

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

with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. ACCIDENTAL RELEASE MEASURES:

Personal precautions, protective equipment and emergency procedures

equipment for fire-fighters

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 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

large amounts are involved.

thoroughly after handling.

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 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 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

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. Ground container and transfer equipment to eliminate static electric

sparks.



Pg. 4 of 8

MATERIAL SAFETY DATA SHEET

Version:02

PRODUCT NAME: 1-PENTANOL (n-AMYL ALCOHOL) CAS Number: 71-41-0

8. EXPOSURE CONTROLS PERSONAL PROTECTION:

Appropriate engineering

controls : No data available

Ingredients with workplace control parameters

Derived No Effect Level (DNEL)

Application Area	Routes of exposure	Health effect	Value
Worker DNEL, longterm	inhalation	Systemic effects	73,16 mg/m3
Worker DNEL, longterm	inhalation	Local effects	73,16 mg/m3
Worker DNEL, acute	inhalation	Systemic effects	292 mg/m3
Worker DNEL, acute	inhalation	Local effects	292 mg/m3
Consumer DNEL, longterm	inhalation	Systemic effects	15,4 mg/m3
Consumer DNEL, longterm	inhalation	Local effects	15,4 mg/m3
Consumer DNEL, longterm	inhalation	Systemic effects	256,4 mg/m3
Consumer DNEL, longterm	inhalation	Local effects	256,4 mg/m3
Consumer DNEL, longterm	oral	Systemic effects	

Predicted No Effect Concentration (PNEC)

Compartment	Value		
Fresh water	0,013 mg/l		
Sea water	0,0013 mg/l		
Aquatic intermittent release	0,13 mg/l		
Fresh water sediment	0,055 mg/kg		
Sea sediment	0,0055 mg/kg		
Soil	2,5 mg/kg		
Sewage treatment plant	37 mg/l		

Individual protection measures, such as personal protective equipment

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation

General information : rates should be matched to conditions 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 Required when vapours/aerosols are generated.

Recommended Filter type: Filter type ABEK

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

Hygiene measures protective equipment to remove contaminants. Provide eyewash station and safety shower.

Avoid contact with eyes, skin, and clothing.



Pg. 5 of 8

MATERIAL SAFETY DATA SHEET

Version:02

PRODUCT NAME: 1-PENTANOL (n-AMYL ALCOHOL) CAS Number: 71-41-0

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance : Clear, colorless liquid

Odor : No data available

Solubility : Miscible in water.

Formula : CH₃(CH₂)₃CH₂OH

Molecular Weight : 88.15 g/mol

Density : 0.815 g/cm3

pH : 7

% Volatiles by volume @

21C (70F)

No data available

Boiling Point : 138°C

Melting Point : -78.6°C

Flash Point : 49 °C

Vapor Density (Air=1): No data availableVapor Pressure (mm Hg): 2.04 @ 20°C

Evaporation Rate (BuAc=1) : No data available

10. STABILITY AND REACTIVITY:

Reactivity : Vapor/air-mixtures are explosive at intense warming.

Chemical stability: Material is stable under ambient conditions..

Possibility of hazardous

reactions

Risk of ignition or formation of inflammable gases or vapours with: Fluorine, Oxygen

Violent reactions possible with: Oxidizing agents, Alkali metals, Alkaline earth metals,

halogens, Acid chlorides, Isocyanates, lithium silicide, acids

Conditions to avoid : Heating.

Incompatible materials : Rubber, various plastics

Hazardous decomposition

products

In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION:

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral Product : LD 50 (Rat): 3.645 mg/kg

Dermal Product : LD 50 (Rabbit): 2.292 mg/kg



Pg. 6 of 8

MATERIAL SAFETY DATA SHEET

CAS Number: 71-41-0

Version:02

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Inhalation Product 4 h - 11,1 mg/l - vapor

Repeated dose toxicity

Product

No data available.

Skin corrosion/irritation

Product

: Irritation

Serious eye damage/eye irritation Product

Causes serious eye damage

Respiratory or skin sensitization Product **Carcinogenicity Product**

Maximization Test - Guinea pig Result: negative

No data available.

IARC Monographs on the

Evaluation of Carcinogenic

: No data available.

Risks to Humans

US. National Toxicology

Program (NTP) Report on

: No data available.

Carcinogens

US. OSHA Specifically

Regulated Substances (29

CFR 1910.1001-1050

Germ cell mutagenicity

: No data available.

Test Type: Micronucleus test Test system: Chinese hamster fibroblasts

Metabolic activation: with and without metabolic activation

Result: negative Test Type: Ames test

Test system: S. typhimurium

Metabolic activation: with and without metabolic activation

Result: negative

Reproductive toxicity

Product

No data available.

Specific target organ

toxicity - single exposure

May cause respiratory irritation. - Respiratory system

Product

Specific target organ

toxicity - repeated

No data available.

exposure Product

Aspiration hazard Product

No data available.

Other effects : No data available.

12. ECOLOGICAL INFORMATION:

Ecotoxicity

Acute hazards to the aquatic environment

Fish Product

: static test LC50 - Danio rerio (zebra fish) - 530 mg/l - 96 h



Pg. 7 of 8

MATERIAL SAFETY DATA SHEET

CAS Number: 71-41-0

Version:02

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Toxicity to daphnia and

: static test EC50 - Daphnia magna (Water flea) - 341,21 mg/l - 48 h

other aquatic invertebrates

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

: Readily biodegradable.

BOD/COD ratio Product

BOD - 1.278 mg/g COD - 1.814 mg/g

Ratio BOD/ThBOD - 47 %

Bioaccumulative potential

Bioconcentration factor

(BCF) Product

: No data available.

Partition coefficient n-

octanol / water (log Kow)

: No data available.

Product

Mobility in soil

: No data available.

Other adverse effects

No data available.

13. DISPOSAL CONSIDERATION:

Disposal instructions : Discharge, treatment, or disposal may be subject to national, state, or local laws. Disposal

recommendations are based on uncontaminated material.

Contaminated packaging Since emptied containers retain product residue, follow label warnings even after container

is emptied.

14. TRANSPORT INFORMATION:

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
ADR/RID	UN 1105	1-Pentanol (n-Amyl Alcohol)	3	III	No
IMDG	UN 1105	1-Pentanol (n-Amyl Alcohol)	3	III	No
IATA	UN 1105	1-Pentanol (n-Amyl Alcohol)	3	III	No



Pg. 8 of 8

MATERIAL SAFETY DATA SHEET

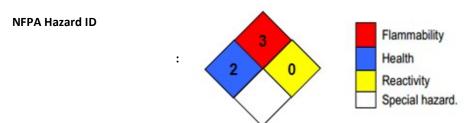
Version:02

PRODUCT NAME: 1-PENTANOL (n-AMYL ALCOHOL) CAS Number: 71-41-0

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:



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

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Version : 02

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