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# Safety Data Sheet

## PENTYLACETATE

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### 1. Identification

**Product identifier used on the label**

**PENTYLACETATE**

**Recommended use of the chemical and restriction on use**

Recommended use\*: Chemical, solvent(s)

Recommended use\*: Chemical; solvent(s)

Unsuitable for use: Not intended for sale to or use by the general public.

\* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

**Details of the supplier of the safety data sheet**

Company:

BASF CORPORATION  
100 Park Avenue  
Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

**Emergency telephone number**

24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300

BASF HOTLINE: 1-800-832-HELP (4357)

**Other means of identification**

Chemical family: acetate

### 2. Hazards Identification

According to Regulation 2024 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

**Classification of the product**

Flam. Liq. 3

Flammable liquids

Aquatic Acute 3

Hazardous to the aquatic environment - acute

**Label elements**

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Pictogram:



Signal Word:  
Warning

Hazard Statement:

H226 Flammable liquid and vapour.  
H402 Harmful to aquatic life.

Precautionary Statements (Prevention):

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P280 Wear protective gloves and eye protection or face protection.  
P243 Take action to prevent static discharges.  
P273 Avoid release to the environment.  
P241 Use explosion-proof electrical, ventilating and lighting equipment.  
P233 Keep container tightly closed.  
P240 Ground and bond container and receiving equipment.  
P242 Use non-sparking tools.

Precautionary Statements (Response):

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
P370 + P378 In case of fire: Use water spray, dry powder, foam or carbon dioxide for extinction.

Precautionary Statements (Storage):

P403 + P235 Store in a well-ventilated place. Keep cool.

Precautionary Statements (Disposal):

P501 Dispose of contents/container in accordance with local regulations.

### Hazards not otherwise classified

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.  
See section 12 - Results of PBT and vPvB assessment.

Labeling of special preparations (GHS):

Repeated exposure may cause skin dryness or cracking.

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## 3. Composition / Information on Ingredients

**According to Regulation 2024 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200**

pentyl acetate

CAS Number: 628-63-7

Content (W/W):  $\geq 60.0$  -  $\leq 80.0\%$

Synonym: Amyl acetate

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1-Butanol, 2-methyl-, acetate  
CAS Number: 624-41-9  
Content (W/W):  $\geq 10.0$  -  $\leq 30.0\%$   
Synonym: 2-Methyl-1-butanol acetate

3-Methylbutyl acetate  
CAS Number: 123-92-2  
Content (W/W):  $\geq 1.0$  -  $\leq 7.0\%$   
Synonym: 3-Methyl-1-butanol acetate; Isoamyl acetate

The actual concentration is withheld as a trade secret.

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## 4. First-Aid Measures

### Description of first aid measures

#### General advice:

Remove contaminated clothing.

#### If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

#### If on skin:

Wash thoroughly with soap and water

If irritation develops, seek medical attention.

#### If in eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

#### If swallowed:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

### Most important symptoms and effects, both acute and delayed

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

### Indication of any immediate medical attention and special treatment needed

#### Note to physician

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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## 5. Fire-Fighting Measures

### Extinguishing media

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Suitable extinguishing media:  
dry powder, water spray, carbon dioxide, foam

Unsuitable extinguishing media for safety reasons:  
water jet

Additional information:  
Use extinguishing measures to suit surroundings.

### Special hazards arising from the substance or mixture

Hazards during fire-fighting:

Flammable liquid Cool endangered containers with water-spray. See SDS section 7 - Handling and storage.

### Advice for fire-fighters

Protective equipment for fire-fighting:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear. Special protective equipment for firefighters

### Further information:

Evacuate area of all unnecessary personnel. Fight fire from maximum distance.

Extend fire extinguishing measures to the surroundings. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

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## 6. Accidental release measures

### Further accidental release measures:

High risk of slipping due to leakage/spillage of product.

Shut off or stop source of leak. Shut off or stop released substance/product under safe conditions.

Pack in tightly closed containers for disposal.

### Personal precautions, protective equipment and emergency procedures

Handle in accordance with good industrial hygiene and safety practice.

### Environmental precautions

Discharge into the environment must be avoided.

### Methods and material for containment and cleaning up

Pick up with suitable appliance and dispose of. Spills should be contained, solidified, and placed in suitable containers for disposal. Dispose of absorbed material in accordance with regulations.

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## 7. Handling and Storage

### Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:

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Avoid all sources of ignition: heat, sparks, open flame. Ground all transfer equipment properly to prevent electrostatic discharge.

### Conditions for safe storage, including any incompatibilities

Further information on storage conditions: Keep container tightly closed in a cool, well-ventilated place.

## 8. Exposure Controls/Personal Protection

### Components with occupational exposure limits

3-Methylbutyl acetate	ACGIH, US:	TWA value 50 ppm ;
	ACGIH, US:	STEL value 100 ppm ;
	OSHA Z1:	PEL 100 ppm 525 mg/m3 ;
	NIO ID, US:	IDLH 1,000 ppm ; IDLH values based on the 1994 Revised Criteria
	NIO ID, US:	LEL 1.0 % ;
1-Butanol, 2-methyl-, acetate	ACGIH, US:	STEL value 100 ppm ;
	ACGIH, US:	TWA value 50 ppm ;
pentyl acetate	ACGIH, US:	TWA value 50 ppm ;
	ACGIH, US:	STEL value 100 ppm ;
	OSHA Z1:	PEL 100 ppm 525 mg/m3 ;
	NIO ID, US:	IDLH 1,000 ppm ; IDLH values based on the 1994 Revised Criteria
	NIO ID, US:	LEL 1.1 % ;

### Advice on system design:

Provide local exhaust ventilation to control vapours/mists.

### Personal protective equipment

#### Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) organic vapour respirator.

Observe OSHA regulations for respirator use (29 CFR 1910.134).

#### Hand protection:

Wear chemical resistant protective gloves., Consult with glove manufacturer for testing data.

#### Eye protection:

Tightly fitting safety goggles (chemical goggles).

#### Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

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### General safety and hygiene measures:

Wearing of closed work clothing is required additionally to the stated personal protection equipment.  
Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and Chemical Properties

Physical state:	liquid	
Form:	liquid	
Odour:	ester-like	
Odour threshold:	not determined	
Colour:	colourless	
pH value:	7.3 ( 1 %(m), 20 °C)	(pH Meter)
glass transition temperature:	-82 °C	(OECD Guideline 102)
Boiling point:	144.86 °C ( 1,013.25 hPa)	(measured)
Flash point:	40 °C	(ISO 13736, closed cup)
Flammability:	Flammable.	(derived from flash point)
Lower explosion limit:	For liquids not relevant for classification and labelling. The lower explosion point may be 5 - 15 °C below the flash point.	
Upper explosion limit:	For liquids not relevant for classification and labelling.	
Autoignition:	374 °C	(Directive 92/69/EEC, A.15)
Vapour pressure:	4.91 hPa ( 20 °C)	(measured)
Density:	static 0.875 - 0.877 g/cm3 ( 20 °C)	(DIN 51757)
Relative density:	0.879 ( 17 °C)	(OECD Guideline 109)
Relative vapour density:	> 1 ( 20 °C) Heavier than air.	(estimated)
Partitioning coefficient n-octanol/water (log Pow):	2.1 - 2.7 ( 25 °C)	(OECD Guideline 117)
Self-ignition temperature:	Based on its structural properties the product is not classified as self-igniting.	
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.	
Viscosity, dynamic:	0.96 mPa.s ( 17.8 °C) 0.77 mPa.s ( 35.6 °C)	(OECD Guideline 114) (OECD Guideline 114)
Solubility in water:	1.60 g/l ( 20 °C)	
Solubility (qualitative):	soluble solvent(s): organic solvents,	

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Evaporation rate: Value can be approximated from Henry's Law Constant or vapor pressure.

### Particle characteristics

Particle size distribution: The substance / product is marketed or used in a non solid or granular form.

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## 10. Stability and Reactivity

### Reactivity

Corrosion to metals:  
Corrosive effects to metal are not anticipated.

Oxidizing properties:  
Based on its structural properties the product is not classified as oxidizing.  
Formation of flammable gases: Remarks: Forms no flammable gases in the presence of water.

### Chemical stability

The product is stable if stored and handled as prescribed/indicated.

### Possibility of hazardous reactions

No hazardous reactions when stored and handled according to instructions.

### Conditions to avoid

No special precautions other than good housekeeping of chemicals.

### Incompatible materials

strong oxidizing agents

### Hazardous decomposition products

Decomposition products:

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:

No decomposition if stored and handled as prescribed/indicated.

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## 11. Toxicological information

### Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

### Acute Toxicity/Effects

Acute toxicity

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Assessment of acute toxicity: Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation.

### Oral

Type of value: LD50

Species: rat

Value: > 5,000 mg/kg (similar to OECD guideline 401)

### Inhalation

Type of value: LC50

Species: rat

Value: > 19.25 mg/l (similar to OECD guideline 403)

Exposure time: 4 h

The vapour was tested.

No mortality was observed.

### Dermal

Type of value: LD50

Species: rabbit (male)

Value: 8,300 mg/kg (similar to OECD guideline 402)

Type of value: LD50

Species: rabbit (female)

Value: > 14,000 mg/kg (similar to OECD guideline 402)

### Assessment other acute effects

Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

### Irritation / corrosion

Assessment of irritating effects: Not irritating to the eyes. May cause slight irritation to the skin.

### Skin

Species: rabbit

Result: Slightly irritating.

Method: similar to OECD guideline 404

### Eye

Species: rabbit

Result: non-irritant

Method: similar to OECD guideline 405

### Sensitization

Assessment of sensitization: Skin sensitizing effects were not observed in animal studies.

Guinea pig maximization test

Species: guinea pig

Result: Non-sensitizing.

Method: OECD Guideline 406

### Aspiration Hazard

not applicable

### **Chronic Toxicity/Effects**



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### Repeated dose toxicity

Assessment of repeated dose toxicity: No adverse effects were observed after repeated inhalative exposure in animal studies.

### Genetic toxicity

Assessment of mutagenicity: The substance was not mutagenic in bacteria. The substance was not mutagenic in mammalian cell culture.

### Carcinogenicity

Assessment of carcinogenicity: No data available.

### Reproductive toxicity

Assessment of reproduction toxicity: The results of animal studies gave no indication of a fertility impairing effect. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. The results were determined in a Screening test (OECD 421/422).

### Teratogenicity

Assessment of teratogenicity: No indications of a developmental toxic / teratogenic effect were seen in animal studies.

### Experiences in humans

Prolonged contact can result in drying of the skin.

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## 12. Ecological Information

### **Toxicity**

#### Aquatic toxicity

Assessment of aquatic toxicity:

Acutely harmful for aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

#### Toxicity to fish

LC50 (96 h) 69 mg/l, Pimephales promelas (APHA 1971, static)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. The details of the toxic effect relate to the nominal concentration.

#### Aquatic invertebrates

EC50 (48 h) 40.9 mg/l, Daphnia magna (OECD Guideline 202, part 1, static)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. The statement of the toxic effect relates to the analytically determined concentration.

#### Aquatic plants

EC50 (72 h) > 466 mg/l (growth rate), Pseudokirchneriella subcapitata (OECD Guideline 201, static)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. The statement of the toxic effect relates to the analytically determined concentration.

#### Chronic toxicity to fish

No data available regarding toxicity to fish.

#### Chronic toxicity to aquatic invertebrates

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No data available regarding toxicity to daphnids.

### Assessment of terrestrial toxicity

No data available concerning terrestrial toxicity.

## Microorganisms/Effect on activated sludge

### Toxicity to microorganisms

OECD Guideline 209 aerobic

activated sludge of a predominantly domestic sewage/EC20 (30 min): > 1,000 mg/l

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

## Persistence and degradability

### Assessment biodegradation and elimination (H<sub>2</sub>O)

Readily biodegradable (according to OECD criteria).

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

### Elimination information

87 % BOD of the ThOD (20 d) (APHA 'Standard Methods', No. 219, 1971) (aerobic, Seawater)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

72 % BOD of the ThOD (20 d) (APHA 'Standard Methods', No. 219, 1971) (aerobic, predominantly domestic sewage, non-adapted)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

57 % BOD of the ThOD (28 d) (OECD 301D; 92/69/EWG, C.4-E) (aerobic, domestic sewage)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

### Assessment of stability in water

No data available.

### Information on Stability in Water (Hydrolysis)

No data available.

## Bioaccumulative potential

### Assessment bioaccumulation potential

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

The product has not been tested. The statement has been derived from the properties of the individual components.

### Bioaccumulation potential

No data available.

## Mobility in soil

### Assessment transport between environmental compartments

The substance will slowly evaporate into the atmosphere from the water surface.

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Adsorption to solid soil phase is not expected.

### Additional information

Adsorbable organically-bound halogen(AOX):  
This product contains no organically-bound halogen.

Other ecotoxicological advice:  
Do not release untreated into natural waters.

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## 13. Disposal considerations

### Waste disposal of substance:

Dispose of in accordance with national, state and local regulations.

### Container disposal:

Disposal must be made according to official regulations.

RCRA: D001

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## 14. Transport Information

### Land transport

USDOT

Hazard class:	3
Packing group:	III
ID number:	UN 1104
Hazard label:	3
Proper shipping name:	AMYL ACETATES

### Sea transport

IMDG

Hazard class:	3
Packing group:	III
ID number:	UN 1104
Hazard label:	3
Marine pollutant:	NO
Proper shipping name:	AMYL ACETATES

### Air transport

IATA/ICAO

Hazard class:	3
Packing group:	III
ID number:	UN 1104
Hazard label:	3
Proper shipping name:	AMYL ACETATES

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## 15. Regulatory Information

### Federal Regulations

#### Registration status:

Chemical TSCA, US

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All substances are TSCA listed and active.

**EPCRA 311/312 (Hazard categories):** Refer to SDS section 2 for GHS hazard classes applicable for this product.

<u>CERCLA RQ</u>	<u>CAS Number</u>	<u>Chemical name</u>
5000 LBS	628-63-7	pentyl acetate
100 LBS	624-41-9	1-Butanol, 2-methyl-, acetate

### State regulations

<u>State RTK</u>	<u>CAS Number</u>	<u>Chemical name</u>
PA	123-92-2	3-Methylbutyl acetate
	628-63-7	pentyl acetate
NJ	628-63-7	pentyl acetate

### **NFPA Hazard codes:**

Health: 1      Fire: 2      Reactivity: 0      Special:

### **HMIS III rating**

Health: 1      Flammability: 2      Physical hazard: 0

### **Assessment of the hazard classes according to UN GHS criteria (most recent version):**

Flam. Liq.	3	Flammable liquids
Skin Irrit.	3	Skin irritation
Aquatic Acute	3	Hazardous to the aquatic environment - acute

## 16. Other Information

### **SDS Prepared by:**

BASF NA Product Regulations  
SDS Prepared on: 2025/09/11

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