

4,4-Nitrobenzylpyridin 5 % (m/V) zur Synthese in Aceton

according to Regulation (EC) No 1907/2006

Revision date: 07.09.2023

Product code: 33826

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

4,4-Nitrobenzylpyridin 5 % (m/V) zur Synthese in Aceton

UFI:

04P0-R3A5-S00X-AKTH

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

Laboratory chemical

Industrial uses: Uses of substances as such or in preparations at industrial sites

Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Uses advised against

Do not use for private purposes (household).

1.3. Details of the supplier of the safety data sheet

Company name:	AnalytiChem GmbH	
Street:	Stempelstraße 6	
Place:	D-47167 Duisburg	
Telephone:	0203/5194-0	Telefax: 0203/5194-290
E-mail:	info@analytichem.de	
Contact person:	Abteilung Produktsicherheit	Telephone:0203/5194-107/117
E-mail:	produktsicherheit@analytichem.de	
Internet:	www.analytichem.de	
Responsible Department:	Abteilung Produktsicherheit	
1.4. Emergency telephone	For Hazardous Materials [or Danger	ous Goods] Incidents Spill, Leak, Fire,
number:	•	REC Day or Night Within USA and Canada: anada: +1 703-741-5970 (collect calls

Further Information

This product is a mixture. REACH Registration Number see section 3.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008 Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling acetone

Signal word:

Pictograms:

Danger



Hazard statements

H225 H319 Highly flammable liquid and vapour. Causes serious eye irritation.



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H336	May cause drowsiness or dizziness.	
Precautionary statemen	ts	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	
P233	Keep container tightly closed.	
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.	
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.	
P403+P235	Store in a well-ventilated place. Keep cool.	
Special labelling of certain	ain mixtures	

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name			Quantity			
	EC No	EC No Index No REACH No					
	Classification (Regulation (EC) No 1272/2008)						
67-64-1	acetone			90 - < 95 %			
	200-662-2	606-001-00-8	01-2119471330-49				
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066						

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE						
CAS No	AS No EC No Chemical name					
	Specific Conc. I	Specific Conc. Limits, M-factors and ATE				
67-64-1	200-662-2	acetone	90 - < 95 %			
	dermal: LD50 = > 7426 mg/kg; oral: LD50 = 5800 mg/kg					

Further Information

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

No data available

After inhalation

Provide fresh air. Call a physician immediately.

After contact with skin

Wash immediately with: Water

Take off immediately all contaminated clothing and wash it before reuse.

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.



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Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion

Observe risk of aspiration if vomiting occurs. Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

Irritant, Dizziness, Anaesthetic state Vomiting, Headache, Dizziness Gastrointestinal complaints, Corneal opacity. Has degreasing effect on the skin. Repeated exposure may cause skin dryness or cracking. May cause drowsiness or dizziness.

4.3. Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO2). Foam. Extinguishing powder

Unsuitable extinguishing media

no restriction

5.2. Special hazards arising from the substance or mixture

Combustible liquid.

Vapours are heavier than air, spread along floors and form explosive mixtures with air. Hazardous combustion products In case of fire may be liberated: Carbon dioxide (CO2), Carbon monoxide Beware of reignition.

5.3. Advice for firefighters

Remove persons to safety. Do not inhale explosion and combustion gases. Avoid contact with skin, eyes and clothes. In case of fire: Wear self-contained breathing apparatus. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Additional information

Danger of bursting container. Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Keep away from sources of ignition - No smoking. This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe). Take action to prevent static discharges.

For non-emergency personnel

Provide adequate ventilation.

Use personal protection equipment.

Avoid contact with skin, eyes and clothes.



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Remove persons to safety. Emergency procedures

Do not breathe dust/fume/gas/mist/vapours/spray.

For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration.

Danger of explosion

6.3. Methods and material for containment and cleaning up

For containment

Cover drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Collect in closed and suitable containers for disposal. Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

Other information

Provide adequate ventilation. Do not breathe dust/fume/gas/mist/vapours/spray. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Read label before use. Handle and open container with care. When using do not eat, drink, smoke, sniff. Keep container tightly closed. Use personal protection equipment. Use extractor hood (laboratory). Do not breathe vapour/aerosol. Provide adequate ventilation.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air.

Advice on general occupational hygiene

Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink. Keep away from food, drink and animal feedingstuffs. Take off immediately all contaminated clothing. Wash hands before breaks and after work.

Further information on handling

Take off immediately all contaminated clothing and wash it before reuse.

Draw up and observe skin protection programme.

Wash hands and face before breaks and after work and take a shower if necessary.

7.2. Conditions for safe storage, including any incompatibilities



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Requirements for storage rooms and vessels

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. storage temperature: $+5^{\circ}C - +30^{\circ}C$

Further information on storage conditions

Keep cool. Protect from sunlight.

Protect against: Light

7.3. Specific end use(s)

Laboratory chemicals

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

CAS No	Substance	ppm	mg/m³	fib/cm ³	Category	Origin
67-64-1	Acetone	500	1210		TWA (8 h)	

Biological limit values

CAS No	Substance	Parameter	Value	Test material	Sampling time
67-64-1	Acetone	Acetone	50 mg/L	Urine	End of shift

DNEL/DMEL values

CAS No	Substance						
DNEL type		Exposure route	Effect	Value			
67-64-1	acetone						
Worker DNEL,	long-term	inhalation	systemic	1210 mg/m ³			
Worker DNEL,	acute	inhalation	local	2420 mg/m³			
Worker DNEL,	long-term	dermal	systemic	186 mg/kg bw/day			
Consumer DN	EL, long-term	inhalation	systemic	200 mg/m³			
Consumer DN	EL, long-term	dermal	systemic	62 mg/kg bw/day			
Consumer DNEL, long-term		oral	systemic	62 mg/kg bw/day			

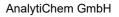
PNEC values

CAS No	Substance					
Environmer	ntal compartment	Value				
67-64-1	acetone					
Freshwater		10,6 mg/l				
Freshwater	Freshwater (intermittent releases)					
Marine wate	er	1,06 mg/l				
Freshwater	sediment	30,4 mg/kg				
Marine sedi	3,04 mg/kg					
Micro-orgar	100 mg/l					
Soil	29,5 mg/kg					

8.2. Exposure controls

Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection





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equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe vapour/aerosol.

Individual protection measures, such as personal protective equipment

Eye/face protection

Suitable eye protection: goggles. Face protection umbrella

Hand protection

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

By long-term hand contact Trade name/designation: KCL 897 Butoject® Suitable material: Butyl caoutchouc (butyl rubber) 0,3 mm Wearing time with permanent contact: > 480 min

By short-term hand contact Trade name/designation: KCL 897 Butoject® Suitable material: Butyl caoutchouc (butyl rubber) 0,3 mm Wearing time with occasional contact (splashes): > 480 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Skin protection

Flame-retardant protective clothing. Wear anti-static footwear and clothing Take off immediately all contaminated clothing. Wash hands before breaks and after work. Draw up and observe skin protection programme.

Respiratory protection

Respiratory protection necessary at: aerosol or mist formation

Environmental exposure controls

Do not allow to enter into surface water or drains. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Danger of explosion

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid	
Colour:	yellow	
Odour:	fruity	
Odour threshold:	No data available	
Melting point/freezing point:		-95,4 °C
Boiling point or initial boiling point and		56,2 °C
boiling range:		
Flammability:		not applicable
Lower explosion limits:		2,15 vol. %
Upper explosion limits:		13 vol. %



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Flash point:	<-20 °C	
Auto-ignition temperature:	465 °C	
Decomposition temperature:	No data available	
pH-Value (at 20 °C):	6,4	
Viscosity / kinematic:	No data available	
Water solubility:	No data available	
Solubility in other solvents		
No data available		
Dissolution rate:	No data available	
Partition coefficient n-octanol/water:	No data available	
Dispersion stability:	No data available	
Vapour pressure:	No data available	
Vapour pressure:	No data available	
Density (at 20 °C):	0,81 g/cm ³	
Relative density:	No data available	
Bulk density:	No data available	
Relative vapour density:	No data available	
Particle characteristics:	No data available	
9.2. Other information		
Information with regard to physical hazard classe	S	
Explosive properties		
Vapours can form explosive mixtures with air.		
Sustaining combustion:	Sustaining combustion	
Self-ignition temperature		
Solid:	not applicable	
Gas:	not applicable	
Oxidizing properties		
No data available		
Other safety characteristics		
Evaporation rate:	No data available	
Solvent separation test:	No data available	
Solvent content:	No data available	
Solid content:	No data available	
Sublimation point:	No data available	
Softening point:	No data available	
Pour point: No data available:	No data available	
	No data available	
Viscosity / dynamic: Flow time:	No data available No data available	
	INO DALA AVAIIADIE	
Further Information		
No data available		

SECTION 10: Stability and reactivity

10.1. Reactivity

Highly flammable. Vapours can form explosive mixtures with air.

10.2. Chemical stability

Protect against: Light Air

10.3. Possibility of hazardous reactions



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Ignition hazard: Fluorine, Oxidising agent, strong; Reducing agent, strong; Nitric acid Danger of explosion: Chloroform, peroxides, for example hydrogen peroxide Exothermic reaction with: Bromine, Alkali metals Hydrogen halide, Sulphur dichloride

10.4. Conditions to avoid

Heat Light Air

10.5. Incompatible materials

Rubber articles Plastic articles

10.6. Hazardous decomposition products

SECTION 5: Firefighting measures

Further information

No data available

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicocinetics, metabolism and distribution

There are no data available on the mixture itself.

Acute toxicity

Based on available data, the classification criteria are not met.

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name						
	Exposure route	Dose		Species	Source	Method	
67-64-1	acetone						
	oral	LD50 mg/kg	5800	Rat	J Toxicol Environ Health 15: 609-621 (19	Undiluted acetone applied to female rats	
	dermal	LD50 mg/kg	> 7426	Rabbit	Toxicol Appl Pharmacol 7: 559-565. (1965	other: Code of federal regulations: 21 C	

Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Has degreasing effect on the skin.

Repeated exposure may cause skin dryness or cracking.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

May cause drowsiness or dizziness. (acetone)



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STOT-repeated exposure

Repeated exposure may cause skin dryness or cracking.

Aspiration hazard

Based on available data, the classification criteria are not met.

Information on likely routes of exposure

There are no data available on the mixture itself.

Specific effects in experiment on an animal

There are no data available on the mixture itself.

Additional information on tests

There are no data available on the mixture itself.

Practical experience

There are no data available on the mixture itself.

11.2. Information on other hazards

Endocrine disrupting properties

There are no data available on the mixture itself.

Other information

There are no data available on the mixture itself.

Further information

Irritant, Dizziness, Anaesthetic state Vomiting, Headache, Dizziness Gastrointestinal complaints, Corneal opacity. Has degreasing effect on the skin. Repeated exposure may cause skin dryness or cracking. May cause drowsiness or dizziness.

SECTION 12: Ecological information

12.1. Toxicity

There are no data available on the mixture itself.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
67-64-1	acetone						
	Acute fish toxicity	LC50 mg/l	8120	96 h	Pimephales promelas	Publication (1984)	OECD Guideline 203
	Acute crustacea toxicity	EC50 mg/l	8800	48 h	Daphnia pulex	Publication (1978)	The toxicity of acetone towards daphnids
	Crustacea toxicity	NOEC mg/l	2212	28 d	Daphnia magna	Arch Environm Contam Toxicol 12: 305-310	Study conducted comparable to OECD 211 w
	Acute bacteria toxicity	(EC50 mg/l)	61150	,	activated sludge of a predominantly domestic sewag	Water Res 26: 887-892 (1992)	ISO 8192

12.2. Persistence and degradability

There are no data available on the mixture itself.

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
67-64-1	acetone	-0,23



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DC	
БС	г

CAS No	Chemical name	BCF	Species	Source
67-64-1	acetone	3		Unpublished calculat

12.4. Mobility in soil

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

Avoid release to the environment.

Further information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Send to a physico-chemical treatment facility under observation of official regulations. Do not empty into drains.

Contaminated packaging

Handle contaminated packages in the same way as the substance itself. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:	UN 1090
14.2. UN proper shipping name:	ACETONE
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3
Classification code:	F1
Limited quantity:	1 L
Excepted quantity:	E2
Transport category:	2
Hazard No:	33
Tunnel restriction code:	D/E
Tunnel restriction code: Inland waterways transport (ADN)	D/E
	D/E UN 1090
Inland waterways transport (ADN)	
Inland waterways transport (ADN) <u>14.1. UN number or ID number:</u>	UN 1090
Inland waterways transport (ADN) <u>14.1. UN number or ID number:</u> 14.2. UN proper shipping name:	UN 1090 ACETONE
Inland waterways transport (ADN) <u>14.1. UN number or ID number:</u> <u>14.2. UN proper shipping name:</u> <u>14.3. Transport hazard class(es):</u>	UN 1090 ACETONE 3
Inland waterways transport (ADN) <u>14.1. UN number or ID number:</u> <u>14.2. UN proper shipping name:</u> <u>14.3. Transport hazard class(es):</u> <u>14.4. Packing group:</u>	UN 1090 ACETONE 3 II
Inland waterways transport (ADN) <u>14.1. UN number or ID number:</u> <u>14.2. UN proper shipping name:</u> <u>14.3. Transport hazard class(es):</u> <u>14.4. Packing group:</u> Hazard label:	UN 1090 ACETONE 3 II 3
Inland waterways transport (ADN) <u>14.1. UN number or ID number:</u> <u>14.2. UN proper shipping name:</u> <u>14.3. Transport hazard class(es):</u> <u>14.4. Packing group:</u> Hazard label: Classification code:	UN 1090 ACETONE 3 II 3 F1



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<u>14.1. UN number or ID number:</u>	UN 1090			
14.2. UN proper shipping name:	ACETONE			
14.3. Transport hazard class(es):	3			
14.4. Packing group:	II			
Hazard label:	3			
Special Provisions:	-			
Limited quantity:	1L			
Excepted quantity:	E2			
EmS:	F-E, S-D			
Air transport (ICAO-TI/IATA-DGR)				
14.1. UN number or ID number:	UN 1090			
14.2. UN proper shipping name:	ACETONE			
14.3. Transport hazard class(es):	3			
14.4. Packing group:				
Hazard label:	3			
Limited quantity Passenger:	1 L			
Passenger LQ:	Y341 E2			
Excepted quantity: IATA-packing instructions - Passenger:	353			
IATA-packing institucions - Lassenger: IATA-max. quantity - Passenger:	5 L			
IATA-packing instructions - Cargo:	364			
IATA-max. quantity - Cargo:	60 L			
14.5. Environmental hazards				
ENVIRONMENTALLY HAZARDOUS:	No			
14.6. Special precautions for user				
Warning: Combustible liquid.				
14.7. Maritime transport in bulk according to	MO instruments			
not applicable				
SECTION 15: Regulatory information				
15.1. Safety, health and environmental regul	ations/legislation specific for the substance or mixture			
EU regulatory information				
Restrictions on use (REACH, annex XVII):				
Entry 3, Entry 40				
Information according to 2012/18/EU	P5c FLAMMABLE LIQUIDS			
(SEVESO III):				
Marketing and use of explosives precursors	s (Regulation (EU) 2019/1148):			
•	(EU) 2019/1148: all suspicious transactions, and significant			
	eported to the relevant national contact point.			
Additional information				
	tes of very high concern according to Regulation (EC) No 1907/2006 ive regulatory concentration limit of = 0.1 % (w/w).			
National regulatory information				
Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juve	nile		
	work protection guideline' (94/33/EC).			
Water hazard class (D):	1 - slightly hazardous to water			

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 1,2,3,8,9,11,12.



according to Regulation (EC) No 1907/2006

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Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service LC50: Lethal concentration, 50% LD50: Lethal dose, 50% Flam. Lig: Flammable liquid Eye Irrit: Eye irritation STOT SE: Specific target organ toxicity - single exposure

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Flam. Liq. 2; H225	On basis of test data
Eye Irrit. 2; H319	Calculation method
STOT SE 3; H336	Calculation method

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)