

FINO GmbH

according to UK REACH Regulation

FINODIE Thinner

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

1.1. Product identifier

FINODIE Thinner

REF 19897

Further trade names

MEK

DIETHYLKETONE BUTYL ACETATE

 Product group:
 Ketone

 CAS No:
 78-93-3

 Index No:
 606-002-00-3

 EC No:
 201-159-0

UFI: G83S-S15S-900E-F09Q

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

Use of the substance/mixture

Coatings and paints, thinners, paint removers

Uses advised against

People who suffer from skin sensitization problems, asthma, allergies, chronic or recurring respiratory illnesses should not be deployed in any process using this mixture.

1.3. Details of the supplier of the safety data sheet

Company name: FINO GmbH
Street: Mangelsfeld 18
Place: D-97708 Bad Bocklet

 Telephone:
 +49-97 08-90 94 20
 Telefax: +49-97 08-90 94 21

 e-mail:
 info@fino.com
 Internet: www.fino.com

 Contact person:
 Joachim Mahlmeister
 Telephone: +49-97 08-90 94 20

e-mail: info@fino.com

Responsible Department: This number can only be reached during our office hours, Monday to Friday from

8 a.m. to 5 p.m.

1.4. Emergency telephone +49-89-1 92 40

number: POISON CENTER München

24 hour(s) 7 day(s)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H335 STOT SE 3; H336

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

butanone; ethyl methyl ketone pentan-3-one; diethyl ketone

Signal word: Danger



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Pictograms:





Hazard statements

H225 Highly flammable liquid and vapour.
 H319 Causes serious eye irritation.
 H335 May cause respiratory irritation.
 H336 May cause drowsiness or dizziness.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P280 Eye protection/Wear protective gloves.

P302+P352 IF ON SKIN: Wash with plenty of Water and soap.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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+P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

Special labelling of certain mixtures

EUH066 Repeated exposure may cause skin dryness or cracking.

Additional advice on labelling

The product is classified and labelled according to EC directives or corresponding national laws.

Classification according to Regulation (EC) No 1272/2008 [CLP]

2.3. Other hazards

Solvent Effects: Prolonged/repetitive skin contact may cause skin defattening or dermatitis.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture from the below listed substances with harmless additives.

Sum formula: C4H8O Molecular weight: 72,11g/mol

Hazardous components

CAS No	Chemical name							
	EC No	Index No	REACH No					
	Classification (GB CLP	Classification (GB CLP Regulation)						
78-93-3	butanone; ethyl methyl l	ketone		50-100 %				
	201-159-0	606-002-00-3						
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066							
96-22-0	pentan-3-one; diethyl ketone							
	202-490-3	606-006-00-5						
	Flam. Liq. 2, STOT SE							
123-86-4	n-butyl acetate	2,5-10 %						
	204-658-1	607-025-00-1						
	Flam. Liq. 3, STOT SE 3; H226 H336 EUH066							

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



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Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity						
	Specific Conc. L	ecific Conc. Limits, M-factors and ATE							
78-93-3	201-159-0	butanone; ethyl methyl ketone	50-100 %						
	dermal: LD50 =	dermal: LD50 = 6480 mg/kg; oral: LD50 = 2740 mg/kg							
96-22-0	202-490-3	pentan-3-one; diethyl ketone	25-50 %						
	dermal: LD50 =	: 16300 mg/kg; oral: LD50 = 2140 mg/kg							
123-86-4	204-658-1	n-butyl acetate	2,5-10 %						
	dermal: LD50 =	17600 mg/kg; oral: LD50 = 10800 mg/kg							

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

No special measures are necessary.

After inhalation

Provide fresh air.

Seek medical attention if problems persist.

After contact with skin

The product is not skin irritating.

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart.

In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

Call a physician immediately.

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

No known symptoms to date.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO2), Sand, Extinguishing powder. Never use water.

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of fire and/or explosion do not breathe fumes.

5.3. Advice for firefighters

No special measures are necessary.

Additional information

Co-ordinate fire-fighting measures to the fire surroundings.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Keep unprotected persons away.

For non-emergency personnel

Emergency procedures



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Remove persons to safety. Remove victim out of the danger area.

The danger areas must be delimited and identified using relevant warning and safety signs.

For emergency responders

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Wear personal protection equipment (refer to section 8).

6.2. Environmental precautions

Do not allow to enter sewers/surface or ground water.

6.3. Methods and material for containment and cleaning up

For containment

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Following consultation with waste management company and after biological pre-treatment, landfill together with household waste.

For cleaning up

Do not flush with water or watery cleaning agents

For cleaning, approved industrial vacuum cleaners are recommended, dust class:

Collect in closed and suitable containers for disposal.

Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Provide adequate ventilation.

Do not flush with water or watery cleaning agents

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Treat the recovered material as prescribed in the section on waste disposal. Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Ensure good ventilation / exhaustion at the workplace.

Avoid the formation of aerosol.

Advice on protection against fire and explosion

Take precautionary measures against static discharges.

Keep away from sources of ignition - No smoking.

Advice on general occupational hygiene

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated, saturated clothing immediately.

Wash hands before breaks and after work.

When using do not eat, drink or smoke.

Avoid contact with eyes and skin.

Further information on handling

No special handling advices are necessary.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep in a cool place.

Hints on joint storage

Not required.

Further information on storage conditions

Keep container tightly closed.

Store in cool, dry conditions in well sealed receptacles.



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Betriebssicherheitsverordnung (BetrSichV)

7.3. Specific end use(s)

Coatings and paints, thinners, paint removers

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

Substance	ppm	mg/m³	fibres/ml	Category	Origin
Butan-2-one (methyl ethyl ketone)	200	600		TWA (8 h)	WEL
	300	899		STEL (15 min)	WEL
Butyl acetate	150	724		TWA (8 h)	WEL
	200	966		STEL (15 min)	WEL
Pentan-3-one	200	716		TWA (8 h)	WEL
	250	895		STEL (15 min)	WEL
	Butan-2-one (methyl ethyl ketone) Butyl acetate	Butan-2-one (methyl ethyl ketone) 200 300 Butyl acetate 150 200 Pentan-3-one 200	Butan-2-one (methyl ethyl ketone) 200 600 300 899 Butyl acetate 150 724 200 966 Pentan-3-one 200 716	Butan-2-one (methyl ethyl ketone) 200 600 300 899 Butyl acetate 150 724 200 966 Pentan-3-one 200 716	Butan-2-one (methyl ethyl ketone) 200 600 TWA (8 h) 300 899 STEL (15 min) TWA (8 h) TWA (8 h)

Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
78-93-3	Butan-2-one	butan-2-one	70 µmol/L	urine	Post shift

DNEL/DMEL values

CAS No	CAS No Substance						
DNEL type		Exposure route	Effect	Value			
123-86-4	n-butyl acetate						
Consumer DNE	Consumer DNEL, long-term		local	7 ppm			
Consumer DNE	EL, long-term	inhalation	local	48 mg/m³			

PNEC values

CAS No Substance					
Environmental	Value				
123-86-4 n-butyl acetate					
Freshwater	Freshwater 0,				
Soil 0,093 mg/kg					

Additional advice on limit values

The lists valid during the making were used as basis.

8.2. Exposure controls









Appropriate engineering controls

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

Individual protection measures, such as personal protective equipment

Eye/face protection

Tightly sealed safety glasses.



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Hand protection

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

The precise time of rupture can be found out from the manufacturer of the protective gloves and must be observed.

Suitable material: NBR (Nitrile rubber), Butyl caoutchouc (butyl rubber)

Skin protection

lab coat.

Respiratory protection

Respiratory protection not required.

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid
Colour: colourless
Odour: ester

Odour threshold: not determined

Changes in the physical state

Melting point/freezing point:

Boiling point or initial boiling point and

79 °C

boiling range:

Softening point: not applicable Flash point: -4 °C

Flammability

Solid/liquid: not determined

Explosive properties

not explosive. However, formation of explosive air/vapour mixtures are possible.

Lower explosion limits: 1,2 vol. %
Upper explosion limits: 11,5 vol. %
Auto-ignition temperature: 445 °C

Self-ignition temperature

Solid: Product is not selfigniting.

Decomposition temperature: not determined

Water solubility: partially miscible

Partition coefficient n-octanol/water: not determined

Vapour pressure: 105 hPa

(at 20 °C)

Density (at 20 °C): 0,81 g/cm³
Bulk density: not determined
Relative vapour density: not determined

9.2. Other information

Information with regard to physical hazard classes



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Sustaining combustion:

No data available

Oxidizing properties

No data available.

Other safety characteristics

Solvent separation test:

Organic solvents: 100 %

Maximum VOC content: 100 %

Solid content: 0 %
Evaporation rate: not determined

Further Information

SECTION 10: Stability and reactivity

10.1. Reactivity

No specific test data related to reactivity available for this product or its ingredients.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

No decomposition if used according to specifications.

10.5. Incompatible materials

Keep only in the original container.

10.6. Hazardous decomposition products

No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Acute toxicity

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

CAS No	Chemical name						
	Exposure route	Dose		Species	Source	Method	
78-93-3	butanone; ethyl methyl ketone						
	oral	LD50 mg/kg	2740	Rat	GESTIS		
	dermal	LD50 mg/kg	6480	Rabbit	GESTIS		
96-22-0	pentan-3-one; diethyl ketone						
	oral	LD50 mg/kg	2140	Rat	GESTIS		
	dermal	LD50 mg/kg	16300	Rabbit	GESTIS		
123-86-4	n-butyl acetate						
	oral LD50 10800 R mg/kg		Ratte	RTECS			
				Kaninchen	IUCLID		

Irritation and corrosivity

Causes serious eye irritation.

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



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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 respiratory irritation. (pentan-3-one; diethyl ketone)

May cause drowsiness or dizziness. (butanone; ethyl methyl ketone; pentan-3-one; diethyl ketone)

STOT-repeated exposure

Repeated exposure may cause skin dryness or cracking.

Aspiration hazard

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

Specific effects in experiment on an animal

Toxicological data are not available.

Additional information on tests

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version: irritant.

Practical experience

No special references.

11.2. Information on other hazards

Endocrine disrupting properties

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

Other information

No special precautionary measures.

SECTION 12: Ecological information

12.1. Toxicity

Don't let flow into the ground water, in waters or the sewage system undiluted resp. in larger quantities.

CAS No	Chemical name							
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method	
78-93-3	butanone; ethyl methyl ke	tone						
	Acute fish toxicity	LC50 mg/l	3220	96 h				
	Acute crustacea toxicity	EC50 mg/l	5090	48 h				
96-22-0	pentan-3-one; diethyl keto	ne						
	Acute fish toxicity	LC50 mg/l	1540	96 h	Pimephales promelas	GESTIS		
123-86-4	n-butyl acetate							
	Acute fish toxicity	LC50	81 mg/l	96 h				

12.2. Persistence and degradability

none Evidence exists for biodegradation processes.

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

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Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
78-93-3	butanone; ethyl methyl ketone	0,29
96-22-0	pentan-3-one; diethyl ketone	0,82
123-86-4	n-butyl acetate	0,29

12.4. Mobility in soil

Respective data are not available.

12.5. Results of PBT and vPvB assessment

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

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

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.

No information available.

12.7. Other adverse effects

Water hazard class slightly hazardous to water.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Must not be disposed together with household garbage.

Do not allow to enter into surface water or drains.

List of Wastes Code - residues/unused products

080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF

COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish

containing organic solvents or other hazardous substances; hazardous waste

List of Wastes Code - used product

080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF

COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish

containing organic solvents or other hazardous substances; hazardous waste

Contaminated packaging

Dispose of waste according to applicable legislation.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number: UN 1224

14.2. UN proper shipping name: KETONES, LIQUID, N.O.S.

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Classification code:

Special Provisions: 274 640D
Limited quantity: 1 L
Excepted quantity: E2
Transport category: 2

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Hazard No: 33
Tunnel restriction code: D/E

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 1224

14.2. UN proper shipping name: KETONES, LIQUID, N.O.S.

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Classification code: F1
Special Provisions: 274 640D
Limited quantity: 1 L
Excepted quantity: E2

Marine transport (IMDG)

14.1. UN number or ID number: UN 1224

14.2. UN proper shipping name: KETONES, LIQUID, N.O.S.

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Special Provisions: 274
Limited quantity: 1 L
Excepted quantity: E2
EmS: F-E, S-D

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 1224

14.2. UN proper shipping name: KETONES, LIQUID, N.O.S.

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Special Provisions:

Limited quantity Passenger:

Passenger LQ:

Excepted quantity:

A3

1 L

Y341

Excepted quantity:

E2

IATA-packing instructions - Passenger:353IATA-max. quantity - Passenger:5 LIATA-packing instructions - Cargo:364IATA-max. quantity - Cargo:60 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

Warning: Flammable liquids

14.7. Maritime transport in bulk according to IMO instruments

No special precautionary measures.



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SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 75

2010/75/EU (VOC): 30 %

2004/42/EC (VOC): 30 % (243 g/l)

Subcategory according to Directive Decorative effect coatings - Solvent-borne coatings, VOC limit value: 200

2004/42/EC: g/l

Information according to 2012/18/EU P3a FLAMMABLE AEROSOLS

(SEVESO III):

Additional information: P3a, P5c

Additional information

The product is classified and labelled according to EC directives or corresponding national laws.

Classification according to Regulation (EC) No 1272/2008 [CLP]

National regulatory information

Water hazard class (D): 1 - slightly hazardous to water

Additional information

Betriebssicherheitsverordnung (BetrSichV)

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 2.

Abbreviations and acronyms

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer

(Regulations Concerning the International Transport of Dangerous Goods by Rail)

"IATA-DGR: Dangerous Goods Regulations by the ""International Air Transport Association"" (IATA)"

ICAO: International Civil Aviation Organization

"ICAO-TI: Technical Instructions by the ""International Civil Aviation Organization"" (ICAO)"

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 (division of the American Chemical Society)

GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Lig. 2: Flammable liquids, Hazard Category 2

Flam. Liq. 3: Flammable liquids, Hazard Category 3

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3



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Relevant H and EUH statements (number and full text)

H225 Highly flammable liquid and vapour.
 H226 Flammable liquid and vapour.
 H319 Causes serious eye irritation.
 H335 May cause respiratory irritation.
 H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

Identified uses

	No	Short title	LCS	SU	PC	PROC	ERC	AC	TF	Specification
ſ	1	Stumpflack	-	20	9a	10	4	0	-	78-93-3

LCS: Life cycle stages

PC: Product categories

ERC: Environmental release categories

SU: Sectors of use

PROC: Process categories

AC: Article categories

TF: Technical functions

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