

Safety data sheet according to UK REACH



Printing date 20.03.2025

Version number 12 (replaces version 11)

Revision: 20.03.2025

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

- 1.1 Product identifier
- Trade name: **Thinner 76**
- Article number: 0576
- CAS Number:
78-93-3
- EC number:
201-159-0
- Index number:
606-002-00-3
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- Sector of Use
SU3 Industrial uses: use of substances as such or in preparations in an industrial environment
SU22 Professional use: Public domain (administration, education, entertainment, services, craftsmen)
- Process category
PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.
PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions
PROC3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition
PROC4 Chemical production where opportunity for exposure arises
PROC5 Mixing or blending in batch processes
PROC7 Industrial spraying
PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities
PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)
PROC11 Non industrial spraying
PROC13 Treatment of articles by dipping and pouring
PROC14 Tableting, compression, extrusion, pelletisation, granulation
PROC15 Use as laboratory reagent
PROC19 Manual activities involving hand contact
- Environmental release category
ERC1 Manufacture of the substance
ERC2 Formulation into mixture
ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
ERC6a Use of intermediate
ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
ERC8b Widespread use of reactive processing aid (no inclusion into or onto article, indoor)
ERC8d Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)
- Application of the substance / the mixture Thinner, Diluent
- 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
Carboline
Carrer Numancia 185,
Entresuelo, 08034,
Barcelona, Espana.
+34 93 209 60 19
Inter-Che-M B.V.
Platinawerf 22-26,
6641TL Beuningen
Holland
T +31 (0)24 678 02 20
E sds@interchem.nl
W www.interchem.nl
- Further information obtainable from: Product safety department: sds@interchem.nl
- 1.4 Emergency telephone number:
++31 (0)6 51012948
Intended only to inform doctors in case of accidental poisoning.

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Trade name: **Thinner 76**

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SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.
 STOT SE 3 H336 May cause drowsiness or dizziness.

- 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008
The substance is classified and labelled according to the GB CLP regulation.
- Hazard pictograms



GHS02



GHS07

- Signal word Danger
- Hazard statements
H225 Highly flammable liquid and vapour.
H319 Causes serious eye 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.
P243 Take action to prevent static discharges.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P285 In case of inadequate ventilation wear respiratory protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Additional information:
EUH066 Repeated exposure may cause skin dryness or cracking.
Restricted to professional users.
- 2.3 Other hazards
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- 3.1 Substances
- CAS No. Description
78-93-3 butanone
- Identification number(s)
- EC number: 201-159-0
- Index number: 606-002-00-3

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SECTION 4: First aid measures

- 4.1 Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact:
Immediately rinse with water.
If skin irritation continues, consult a doctor.
- After eye contact:
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
Contact lens removal.
- After swallowing:
Rinse mouth.
Do not induce vomiting; call for medical help immediately.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed
No further relevant information available.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media
- Suitable extinguishing agents: CO₂ or powder. Fight larger fire with alcohol-resistant foam.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture
In case of fire, the following can be released:
Carbon monoxide (CO)
- 5.3 Advice for firefighters
- Protective equipment: Wear self-contained respiratory protective device.
- Additional information Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
Collect leaking liquid in sealable waste containers.
- 6.4 Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling No special precautions are necessary if used correctly.
- Information about fire - and explosion protection:
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- 7.2 Conditions for safe storage, including any incompatibilities
- Storage:
Requirements to be met by storerooms and receptacles:
Store in a cool location.
Store only in the original receptacle.
- Information about storage in one common storage facility: Store away from oxidising agents.
- Further information about storage conditions: Keep container tightly sealed.
- Storage class: 3

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- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- 8.1 Control parameters
- Ingredients with limit values that require monitoring at the workplace:

78-93-3 butanone

WEL Short-term value: 899 mg/m³, 300 ppm
 Long-term value: 600 mg/m³, 200 ppm
 Sk, BMGV

- DNELs

78-93-3 butanone

Dermal Long-term exposure - systemic effects 1,161 mg/kg bw/day (worker)
 Inhalative Long-term exposure - systemic effects 600 mg/m³ (worker)

- PNECs

78-93-3 butanone

PNEC 284.7 mg/kg (sediment marine water)
 284.74 mg/kg (sediment freshwater)
 22.5 mg/kg (soil)

PNEC 709 mg/l (STP)
 55.8 mg/l (aqua, freshwater)
 55.8 mg/l (aqua, marine water)

- Ingredients with biological limit values:

78-93-3 butanone

BMGV 70 µmol/L
 Medium: urine
 Sampling time: post shift
 Parameter: butan-2-one

- Additional information: The lists valid during the making were used as basis.
- 8.2 Exposure controls
- Appropriate engineering controls Ensure adequate ventilation.
- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:
 Keep away from foodstuffs, beverages and feed.
 Immediately remove all soiled and contaminated clothing
 Wash hands before breaks and at the end of work.
 Avoid contact with the eyes and skin.
- Respiratory protection:
 Short term filter device:
 Filter type A.
 If workers are exposed to concentrations above the exposure limit, they should use a suitable, certified respirator.
- Hand protection



Protective gloves

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

- Material of gloves
 Suitable material for safety gloves (EN 374):
 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.
 Butyl rubber, BR
- Penetration time of glove material
 Thickness of the gloves ≥ 0.64 mm (butanone)

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Value for the permeation: Level \geq 120 min (butanone)

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- Eye/face protection



Tightly sealed goggles

- Body protection: Solvent resistant protective clothing
- Environmental exposure controls No additional data. See 6 and 13.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Physical state	Fluid
· Colour:	Colourless
· Odour:	Pleasant
· Odour threshold:	Not determined.
· Melting point/freezing point:	-86.3 °C
· Boiling point or initial boiling point and boiling range	80 °C (78-93-3 butanone)
· Flammability	Highly flammable.
· Lower and upper explosion limit	
· Lower:	1.8 Vol % (78-93-3 butanone)
· Upper:	11.5 Vol % (78-93-3 butanone)
· Flash point:	-4 °C
· Auto-ignition temperature:	514 °C
· Decomposition temperature:	Not determined.
· pH	Not determined.
· Viscosity:	
· Kinematic viscosity	Not determined.
· Dynamic at 20 °C:	0.4 mPas
· Solubility	
· water at 20 °C:	290 g/l Slightly soluble.
· Partition coefficient n-octanol/water (log value)	0.4
· Vapour pressure at 20 °C:	105 hPa (78-93-3 butanone)
· Density and/or relative density	
· Density at 20 °C:	0.81 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.

· 9.2 Other information

· Appearance:	
· Form:	Liquid
· Important information on protection of health and environment, and on safety.	
· Ignition temperature:	Not determined.
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Solvent content:	
· Organic solvents:	100.0 %
· VOC (EC)	810.0 g/l 100.00 %
· Solids content:	0.0 %
· Molecular weight	72.11 g/mol
· Change in condition	
· Evaporation rate	Not determined.

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· Information with regard to physical hazard classes	
· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Highly flammable liquid and vapour.
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

SECTION 10: Stability and reactivity

- 10.1 Reactivity No further relevant information available.
- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions
Possible formation of peroxide.
Reacts with strong oxidizing agents.
- 10.4 Conditions to avoid High temperatures
- 10.5 Incompatible materials: Strong oxidising products.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- Acute toxicity Based on available data, the classification criteria are not met.
- LD/LC50 values relevant for classification:

78-93-3 butanone

Oral LD50 3,460 mg/kg (rat) (OECD 423)
 Dermal LD50 5,000 mg/kg (rabbit) (OECD 402)
 Inhalative LC50/4h 34 mg/l (rat)

- Primary irritant effect:
- Skin corrosion/irritation If repeated or prolonged contact may defat and dry skin.
- Serious eye damage/irritation Causes serious eye irritation.
- STOT-single exposure May cause drowsiness or dizziness.
- 11.2 Information on other hazards
- Endocrine disrupting properties

List II

SECTION 12: Ecological information

- 12.1 Toxicity
- Aquatic toxicity:

78-93-3 butanone

EC50/48h 308 mg/l (daphnia magna) (OESO 202)

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EC50/72h 2,029 mg/l (pseudokirchneriella subcapitata) (OESO 201)

LC50/96h (static) 2,993 mg/l (pimphales promelas) (OESO 203)

- 12.2 Persistence and degradability Easily biodegradable
- Degree of elimination:

78-93-3 butanone

BOD/28d 98 % (/)

- 12.3 Bioaccumulative potential

78-93-3 butanone

LogPow 0.3 (/)

- 12.4 Mobility in soil No further relevant information available.
 - 12.5 Results of PBT and vPvB assessment
 - PBT: Not applicable.
 - vPvB: Not applicable.
 - 12.6 Endocrine disrupting properties For information on endocrine disrupting properties see section 11.
 - 12.7 Other adverse effects
 - Additional ecological information:
 - General notes:
- Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

- 13.1 Waste treatment methods
- Recommendation
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

- 14.1 UN number or ID number
UN1193
- ADR/ADN, IMDG, IATA
- 14.2 UN proper shipping name
1193 ETHYL METHYL KETONE (METHYL ETHYL KETONE)
- ADR/ADN
ETHYL METHYL KETONE (METHYL ETHYL KETONE)
- IMDG, IATA
- 14.3 Transport hazard class(es)
- ADR/ADN, IMDG, IATA



- Class
3 Flammable liquids.
- Label
3
- 14.4 Packing group
II
- ADR/ADN, IMDG, IATA
- 14.5 Environmental hazards:
- Marine pollutant:
No
- 14.6 Special precautions for user
Warning: Flammable liquids.
- Hazard identification number (Kemler code):
33
- EMS Number:
F-E,S-D
- Stowage Category
B
- 14.7 Maritime transport in bulk according to IMO instruments
Not applicable.

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· Transport/Additional information:

· ADR/ADN

· Limited quantities (LQ)

1L

· Excepted quantities (EQ)

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

· Transport category

2

· Tunnel restriction code

D/E

· IMDG

· Limited quantities (LQ)

1L

· Excepted quantities (EQ)

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

· UN "Model Regulation":

UN 1193 ETHYL METHYL KETONE (METHYL ETHYL KETONE), 3,
II

SECTION 15: Regulatory information

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

· Poisons Act

· Regulated explosives precursors

Substance is not listed.

· Regulated poisons

Substance is not listed.

· Reportable explosives precursors

Substance is not listed.

· Reportable poisons

Substance is not listed.

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I Substance is not listed.

· Seveso category P5c FLAMMABLE LIQUIDS

· Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t

· Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t

· National regulations:

· Other regulations, limitations and prohibitive regulations

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Product safety department.

· Abbreviations and acronyms:

ADR: Accord relatif au transport international 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 Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (UK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable liquids – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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