

# Safety data sheet according to UK REACH



Printing date 21.03.2025

Version number 13 (replaces version 12)

Revision: 20.03.2025

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

- 1.1 Product identifier
- Trade name: **Thinner 45**
- Article number: J194
- CAS Number: 64742-82-1
- EC number:  
919-446-0
- 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)
  - SU8 Manufacture of bulk, large scale chemicals (including petroleum products)
  - SU9 Manufacture of fine chemicals
  - SU10 Formulation [mixing] of preparations and/or re-packaging (excluding alloys)
- 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
  - PROC17 Lubrication at high energy conditions in metal working operations
  - PROC18 General greasing /lubrication at high kinetic energy conditions
  - PROC19 Manual activities involving hand contact
  - PROC20 Use of functional fluids in small devices
- 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)
  - ERC7 Use of functional fluid at industrial site
  - ERC8a Widespread use of non-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)
  - ERC9a Widespread use of functional fluid (indoor)
  - ERC9b Widespread use of functional fluid (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
- Further information obtainable from: [regulatoryeurope@carboline.com](mailto:regulatoryeurope@carboline.com)
- 1.4 Emergency telephone number:  
This product does not need to be notified under Article 45.  
CHEMTREC 1-800-424-9300 (Inside US)  
CHEMTREC +1 703 5273887 (Outside US)  
HEALTH - Pittsburgh Poison Control 1-412-681-6669

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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. 3      H226 Flammable liquid and vapour.



GHS08 health hazard

STOT RE 1      H372 Causes damage to the central nervous system through prolonged or repeated exposure. Route of exposure: Inhalation.

Asp. Tox. 1      H304 May be fatal if swallowed and enters airways.



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



GHS07

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



GHS08



GHS09

- Signal word Danger
- Hazard-determining components of labelling:  
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)
- Hazard statements  
H226 Flammable liquid and vapour.  
H336 May cause drowsiness or dizziness.  
H372 Causes damage to the central nervous system through prolonged or repeated exposure. Route of exposure: Inhalation.  
H304 May be fatal if swallowed and enters airways.  
H411 Toxic to aquatic life with long lasting effects.
- Precautionary statements  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P284 In case of inadequate ventilation wear respiratory protection.  
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- Additional information:  
EUH066 Repeated exposure may cause skin dryness or cracking.  
Restricted to professional users.

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- 2.3 Other hazards
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

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**SECTION 3: Composition/information on ingredients**

- 3.1 Substances
- CAS No. Description  
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)
- Identification number(s)
- EC number: 919-446-0

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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.  
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- 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. Then 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.

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**SECTION 5: Firefighting measures**

- 5.1 Extinguishing media
- Suitable extinguishing agents: CO<sub>2</sub> 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 Carbon monoxide (CO)
- 5.3 Advice for firefighters
- Protective equipment: Wear self-contained respiratory protective device.

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**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:  
Inform respective authorities in case of seepage into water course or sewage system.  
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).  
Dispose contaminated material as waste according to section 13.  
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.

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### 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 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
- 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: Not required.
- DNELs

#### Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Oral Long-term exposure - systemic effects 26 mg/kg bw/day (con)

Dermal Long-term exposure - systemic effects 26 mg/kg bw/day (con)  
44 mg/kg bw/day (worker)

Inhalative Long-term exposure - systemic effects 71 mg/m<sup>3</sup> (con)  
330 mg/m<sup>3</sup> (worker)

- 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.  
Store protective clothing separately.
- 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.  
Nitrile rubber, NBR
- Penetration time of glove material  
Thickness of gloves  $\geq 0.38$  mm (hydrocarbons, C9-C12, n-alkanes, iso-alkanes, cyclic, aromatics (2-25%))  
Permeation value: Level  $\geq 480$  min (hydrocarbons, C9-C12, n-alkanes, iso-alkanes, cyclic, aromatics (2-25%))  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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- 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:

Clear

- Odour:

Turpentine-like

- Odour threshold:

Not determined.

- Melting point/freezing point:

Undetermined.

- Boiling point or initial boiling point and boiling range

150-200 °C (Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%))

- Flammability

Flammable.

- Lower and upper explosion limit

- Lower:

0.6 Vol %

- Upper:

7 Vol %

- Flash point:

43 °C

- Auto-ignition temperature:

&gt;200 °C

- Decomposition temperature:

Not determined.

- pH

Not determined.

- Viscosity:

- Kinematic viscosity at 40 °C

<2 mm<sup>2</sup>/s

- Dynamic at 20 °C:

1 mPas

- Solubility

- water:

Slightly soluble.

- Partition coefficient n-octanol/water (log value)

Not determined.

- Vapour pressure at 20 °C:

&lt;2 hPa (Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%))

- Density and/or relative density

- Density at 20 °C:

0.79 g/cm<sup>3</sup>

- Relative density

Not determined.

- Vapour density

Not determined.

- 9.2 Other information

- Appearance:

- Form:

Fluid

- 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)

790.0 g/l

100.00 %

- Solids content:

0.0 %

- Molecular weight

86 g/mol

- Change in condition

- Evaporation rate

Not determined.

- Information with regard to physical hazard classes

- Explosives

Void

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· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	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 Reacts with strong oxidizing agents.
- 10.4 Conditions to avoid  
Keep away from heat and direct sunlight.  
High temperatures
- 10.5 Incompatible materials:  
Strong oxidising products.  
Various plastics.
- 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:  
  
**Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)**  
Oral LD50 >15,000 mg/kg (rat)  
Dermal LD50 >3,400 mg/kg (rat)  
OESO 402
- STOT-single exposure May cause drowsiness or dizziness.
- STOT-repeated exposure  
Causes damage to the central nervous system through prolonged or repeated exposure. Route of exposure: Inhalation.
- Aspiration hazard May be fatal if swallowed and enters airways.
- 11.2 Information on other hazards
- Endocrine disrupting properties

Substance is not listed.

## SECTION 12: Ecological information

- 12.1 Toxicity
- Aquatic toxicity:

### Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

EL50/48h 10-22 mg/l (daphnia magna)  
NOEC/21d 0.097 mg/l (daphnia magna)

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- LOEC/21d 0.203 mg/l (daphnia magna)
- NOELR/72h 1 mg/l (pseudokirchneriella subcapitata)
- EL50/72h 4.6-10 mg/l (pseudokirchneriella subcapitata)
- LL50/96h 10-30 mg/l (oncorhynchus mykiss)
- 12.2 Persistence and degradability No further relevant information available.
- Degree of elimination:

## Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

- BOD/28d 74.7 % (/)
- 12.3 Bioaccumulative potential

## Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

- LogPow >4 (/)
- 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 The product does not contain substances with endocrine disrupting properties.
- 12.7 Other adverse effects
- Remark: Toxic for fish
- Additional ecological information:
- General notes:
- Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
- Do not allow product to reach ground water, water course or sewage system.
- Danger to drinking water if even small quantities leak into the ground.
- Also poisonous for fish and plankton in water bodies.
- Toxic for aquatic organisms

## 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
- ADR/ADN, IMDG, IATA
- 14.2 UN proper shipping name
- ADR/ADN
- IMDG
- IATA
- 14.3 Transport hazard class(es)
- ADR/ADN, IMDG

UN1300

1300 TURPENTINE SUBSTITUTE, ENVIRONMENTALLY  
HAZARDOUS  
TURPENTINE SUBSTITUTE, MARINE POLLUTANT  
TURPENTINE SUBSTITUTE



- Class
- 3 Flammable liquids.

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· Label

3

· IATA



· Class

3 Flammable liquids.

· Label

3

· 14.4 Packing group

· ADR/ADN, IMDG, IATA

III

· 14.5 Environmental hazards:

· Marine pollutant:

Yes

Symbol (fish and tree)

Symbol (fish and tree)

Warning: Flammable liquids.

· Special marking (ADR/ADN):

· 14.6 Special precautions for user

· Hazard identification number (Kemler code):

30

· EMS Number:

F-E,S-E

· Stowage Category

A

· 14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

· Transport/Additional information:

· ADR/ADN

· Limited quantities (LQ)

5L

· Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

· Transport category

3

· Tunnel restriction code

D/E

· IMDG

· Limited quantities (LQ)

5L

· Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

· UN "Model Regulation":

UN 1300 TURPENTINE SUBSTITUTE, 3, III, ENVIRONMENTALLY HAZARDOUS

## 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

E2 Hazardous to the Aquatic Environment

P5c FLAMMABLE LIQUIDS

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- Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 500 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 not 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)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bioaccumulative and Toxic  
 vPvB: very Persistent and very Bioaccumulative  
 Flam. Liq. 3: Flammable liquids – Category 3  
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
 STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1  
 Asp. Tox. 1: Aspiration hazard – Category 1  
 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
- \* Data compared to the previous version altered.

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