

Safety data sheet according to UK REACH

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

- 1.1 Product identifier
- Trade name: **Thinner 15**
- Article number: 0515
- 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)
- Application of the substance / the mixture Thinner, Diluent
- 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
 - CARBOLINE NORGE AS
 - Husebysletta 7 P.O. Box 593 - N-3412 Lierstranda
 - Norway
 - Phone: +47 32 85 73 00
 - www.carboline.no
 - Email: Carboline.norge@carboline.com
- Further information obtainable from: ehseurope@stoncor.com
- 1.4 Emergency telephone number:
 - ++31 (0)6 51012948
 - CHEMTREC 1-800-424-9300 (Inside US)
 - CHEMTREC +1 703 5273887 (Outside US)
 - HEALTH - Pittsburgh Poison Control 1-412-681-6669

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.
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GHS08 health hazard

STOT RE 2	H373	May cause damage to the central nervous system, the kidneys and the liver through prolonged or repeated exposure. Route of exposure: Inhalation.
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.



GHS07

Acute Tox. 4	H312	Harmful in contact with skin.
Acute Tox. 4	H332	Harmful if inhaled.
Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2	H319	Causes serious eye irritation.
STOT SE 3	H335-H336	May cause respiratory irritation. May cause drowsiness or dizziness.
Aquatic Chronic 3	H412	Harmful to aquatic life with long lasting effects.

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

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Trade name: **Thinner 15**

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· Hazard pictograms



· Signal word Danger

· Hazard-determining components of labelling:

Reaction mass of ethylbenzene and xylene
1-methoxy-2-propanol

· Hazard statements

- H226 Flammable liquid and vapour.
 H312+H332 Harmful in contact with skin or if inhaled.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.
 H373 May cause damage to the central nervous system, the kidneys and the liver through prolonged or repeated exposure. Route of exposure: Inhalation.
 H304 May be fatal if swallowed and enters airways.
 H412 Harmful 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.
 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.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P314 Get medical advice/attention if you feel unwell.

· Additional information:

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

· 3.2 Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components %(m/m):

EC number: 905-588-0	Reaction mass of ethylbenzene and xylene	50-75%
Reg.nr.: 01-2119488216-32	⚠ Flam. Liq. 3, H226; ⚠ STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335; Aquatic Chronic 3, H412	
CAS: 107-98-2	1-methoxy-2-propanol	25-50%
EINECS: 203-539-1	⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336	
Reg.nr.: 01-2119457435-35		
CAS: 108-88-3	toluene	≤0.5%
EINECS: 203-625-9	⚠ Flam. Liq. 2, H225; ⚠ Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; STOT SE 3, H336; Aquatic Chronic 3, H412	
Reg.nr.: 01-2119471310-51		

· Additional information: For the wording of the listed hazard phrases refer to section 16.

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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. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
In case of unconsciousness place patient stably in side position for transportation.
- After skin contact:
Immediately wash with water and soap and rinse thoroughly.
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 Headache
- 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.
- 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.

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.
Dilute with plenty of water.
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.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- 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:
Provide solvent resistant, sealed floor.
Store only in the original receptacle.

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- 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:

107-98-2 1-methoxy-2-propanol

WEL Short-term value: 560 mg/m³, 150 ppm
 Long-term value: 375 mg/m³, 100 ppm
 Sk

108-88-3 toluene

WEL Short-term value: 384 mg/m³, 100 ppm
 Long-term value: 191 mg/m³, 50 ppm
 Sk

- DNELs

Reaction mass of ethylbenzene and xylene

Dermal	Long-term exposure - systemic effects	180 mg/kg bw/day (worker)
Inhalative	Acute - short-term exposure - systemic effects	289 mg/m ³ (worker)
	Acute - short-term exposure - local effects	289 mg/m ³ (worker)
	Long-term exposure - systemic effects	77 mg/m ³ (worker)
	Long-term exposure - local effects	221 mg/m ³ (worker)

107-98-2 1-methoxy-2-propanol

Dermal	Acute - short-term exposure - systemic effects	553.5 mg/kg (worker)
	Long-term exposure - systemic effects	183 mg/kg bw/day (worker)
Inhalative	Acute - short-term exposure - local effects	553.5 mg/m ³ (worker)
	Long-term exposure - systemic effects	369 mg/m ³ (worker)

108-88-3 toluene

Dermal	Long-term exposure - systemic effects	384 mg/kg bw/day (worker)
Inhalative	Acute - short-term exposure - systemic effects	384 mg/m ³ (worker)
	Acute - short-term exposure - local effects	384 mg/m ³ (worker)
	Long-term exposure - systemic effects	192 mg/m ³ (worker)
	Long-term exposure - local effects	192 mg/m ³ (worker)

- PNECs

Reaction mass of ethylbenzene and xylene

PNEC 12.64 mg/kg (sediment marine water)
 12.64 mg/kg (sediment freshwater)
 2.31 mg/kg (soil)
 PNEC 6.58 mg/l (STP)
 0.327 mg/l (aqua, freshwater)
 0.327 mg/l (aqua, marine water)

107-98-2 1-methoxy-2-propanol

PNEC 5.2 mg/kg (sediment marine water)
 52.3 mg/kg (sediment freshwater)
 4.59 mg/kg (soil)
 PNEC 100 mg/l (STP)
 10 mg/l (aqua, freshwater)
 1 mg/l (aqua, marine water)

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108-88-3 toluene

PNEC 16.39 mg/kg (sediment marine water)

PNEC 13.61 mg/l (STP)

0.68 mg/l (aqua, freshwater)

0.68 mg/l (aqua, intermittent releases)

0.68 mg/l (aqua, marine water)

- Ingredients with biological limit values:
- Additional Occupational Exposure Limit Values for possible hazards during processing:

1330-20-7 xyleneWEL Short-term value: 441 mg/m³, 100 ppmLong-term value: 220 mg/m³, 50 ppm

Sk; BMGV

100-41-4 ethylbenzeneWEL Short-term value: 552 mg/m³, 125 ppmLong-term value: 441 mg/m³, 100 ppm

Sk

- 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.
 - Avoid contact with the eyes and skin.
- Respiratory protection:
 - Short term filter device:
 - In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective 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):
 - Fluorocarbon rubber gloves (Viton)
- Penetration time of glove material
 - Thickness of gloves ≥ 0.4 mm (xylene)
 - Value for the permeation ≥ 480 min (xylenes)
 - 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.

Trade name: **Thinner 15**

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information	
Physical state	Fluid
Colour:	Clear
Odour:	Pungent
Odour threshold:	Not determined.
Melting point/freezing point:	Undetermined.
Boiling point or initial boiling point and boiling range	≥120.3 °C (107-98-2 1-methoxy-2-propanol)
Flammability	Flammable.
Lower and upper explosion limit	
Lower:	≥1.1 Vol % (Reaction mass of ethylbenzene and xylene)
Upper:	~20 Vol % (107-98-2 1-methoxy-2-propanol)
Flash point:	25 °C
Auto-ignition temperature:	≥270 °C (107-98-2 1-methoxy-2-propanol)
Decomposition temperature:	Not determined.
pH	Not determined.
Viscosity:	
Kinematic viscosity	Not determined.
Dynamic at 20 °C:	1 mPas
Solubility	
water:	Slightly soluble.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure at 20 °C:	≤13.3 hPa (107-98-2 1-methoxy-2-propanol)
Density and/or relative density	
Density at 20 °C:	0.89 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:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
Solvent content:	
Organic solvents:	100.0 %
VOC (EC)	890.0 g/l
	100.00 %
Solids content:	0.0 %
Change in condition	
Evaporation rate	Not determined.
Information with regard to physical hazard classes	
Explosives	Void
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

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- 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 oxidising agents.
 - 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 Harmful in contact with skin or if inhaled.
- LD/LC50 values relevant for classification:

107-98-2 1-methoxy-2-propanol

Oral LD50 4,016 mg/kg (rat)
 Dermal LD50 >2,000 mg/kg (rat)
 Inhalative LC50/6h >25.8 mg/l (rat)

108-88-3 toluene

Oral LD50 5,580 mg/kg (rat)
 Dermal LD50 >5,000 mg/kg (rabbit)
 Inhalative LC50/4h 20 mg/l (rat)

- Primary irritant effect:
- Skin corrosion/irritation Causes skin irritation.
- Serious eye damage/irritation Causes serious eye irritation.
- STOT-single exposure May cause respiratory irritation. May cause drowsiness or dizziness.
- STOT-repeated exposure
 - May cause damage to the central nervous system, the kidneys and the liver 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

None of the ingredients is listed.

SECTION 12: Ecological information

- 12.1 Toxicity
- Aquatic toxicity:

Reaction mass of ethylbenzene and xylene

ErC50/72h 4.9 mg/l (pseudokirchneriella subcapitata) (OECD 201)
 EC50/48h >3.4 mg/l (Ceriodaphnia dubia)
 EC50/73h 2.2 mg/l (algae) (OECD 201)
 LC50/96h 2.6 mg/l (oncorhynchus mykiss)
 13.4 mg/l (pimphales promelas)

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LC50/24h 1 mg/l (daphnia magna) (OECD 202)

107-98-2 1-methoxy-2-propanol

EC50/96h >1,000 mg/l (selenastrum capricornutum)

LC50/48h (static) 21,100-25,900 mg/l (daphnia magna)

IC50/3h 1,000 mg/l (ac) (OECD 209)

LC50/96h 38,412 mg/l (leuciscus idus)

>1,000 mg/l (oncorhynchus mykiss) (OECD 203)

20,800 mg/l (pimphales promelas)

108-88-3 toluene

NOEC/72h 10 mg/l (Skeletonema costatum)

EC50/3h 134 mg/l (Chlorella vulgaris)

EC50/48h 3.78 mg/l (daphnia magna)

EC50/72h 12.5 mg/l (algae)

LC50/96h 5.5 mg/l (Oncorhynchus kisutch)

5.5 mg/l (fish)

- 12.2 Persistence and degradability No further relevant information available.
- Degree of elimination:

Reaction mass of ethylbenzene and xylene

BOD/28d 90 % (/)

107-98-2 1-methoxy-2-propanol

BOD/28d 96 % (/) (OECD 301E)

- 12.3 Bioaccumulative potential

Reaction mass of ethylbenzene and xylene

LogPow 3.12-3.2 (/)

107-98-2 1-methoxy-2-propanol

BCF <100 (/)

LogPow 0.37 (/)

108-88-3 toluene

BCF 90 (/)

LogPow 2.73 (/)

- 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: Harmful to 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.
 - Harmful to 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.

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Trade name: **Thinner 15**

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- Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

- 14.1 UN number or ID number
ADR/ADN, IMDG, IATA UN1263
- 14.2 UN proper shipping name
ADR/ADN 1263 PAINT RELATED MATERIAL
- IMDG, IATA PAINT RELATED MATERIAL
- 14.3 Transport hazard class(es)
- ADR/ADN, IMDG, IATA



- Class 3 Flammable liquids.
- Label 3
- 14.4 Packing group
ADR/ADN, IMDG, IATA III
- 14.5 Environmental hazards:
- Marine pollutant: No
- 14.6 Special precautions for user Warning: Flammable liquids.
- 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 1263 PAINT RELATED MATERIAL, 3, III

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Poisons Act
- Regulated explosives precursors
- None of the ingredients is listed.
- Regulated poisons
- None of the ingredients is listed.
- Reportable explosives precursors
- None of the ingredients is listed.

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Trade name: **Thinner 15**

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- Reportable poisons

None of the ingredients is listed.

- Directive 2012/18/EU

- Named dangerous substances - ANNEX I None of the ingredients is 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 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.

- Relevant phrases

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H361d Suspected of damaging the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

- Department issuing SDS: Product safety department.

- 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)

ICAO: International Civil Aviation Organisation

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

ELINCS: European List of Notified 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

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Repr. 2: Reproductive toxicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3