Safety data sheet
according to UK REACH

Printing date 21.03.2025 Version number 11 (replaces version 10) Revision: 21.03.2025

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

· 1.1 Product identifier

· Trade name: **Thinner 213**

· Article number: 0555
· 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
Additive
Thinner, Diluent
· Uses advised against SU21 Consumer use: Private households / general public / consumers

· 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
· 1.4 Emergency telephone number:
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.

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.

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.
Skin Sens. 1	H317 May cause an allergic skin reaction.
STOT SE 3	H335 May cause respiratory irritation.
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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· Hazard pictograms

GHS02 GHS07 GHS08

· Signal word Warning

· Hazard-determining components of labelling:
Reaction mass of ethylbenzene and xylene
Fatty acids, C14-18 and C16-18-unsatd., maleated
maleic anhydride

· 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.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.
H373	May cause damage to the central nervous system, the kidneys and the liver through prolonged or repeated exposure. Route of exposure: Inhalation.
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.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.

· 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 Reg.nr.: 01-2119488216-32	Reaction mass of ethylbenzene and xylene 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	75-100%
CAS: 85711-46-2 Reg.nr.: 01-2119976378-19	Fatty acids, C14-18 and C16-18-unsatd., maleated Skin Irrit. 2, H315; Skin Sens. 1, H317	≥1-<2.5%
CAS: 108-88-3 EINECS: 203-625-9 Reg.nr.: 01-2119471310-51	toluene 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	≤0.5%
CAS: 108-31-6 EINECS: 203-571-6 Reg.nr.: 01-2119472428-31	maleic anhydride Resp. Sens. 1, H334; STOT RE 1, H372; Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Sens. 1A, H317, EUH071 Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.001 %	≥0.001-<0.1%

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

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 and to be sure call for a doctor.
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 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: CO_2 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.

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.

*
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: 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:

108-88-3 toluene
WEL Short-term value: 384 mg/m³, 100 ppm
Long-term value: 191 mg/m³, 50 ppm
Sk

108-31-6 maleic anhydride
WEL Short-term value: 3 mg/m³
Long-term value: 1 mg/m³
Sen

· 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/m3 (worker)
	Acute - short-term exposure - local effects	289 mg/m3 (worker)
	Long-term exposure - systemic effects	77 mg/m3 (worker)
	Long-term exposure - local effects	221 mg/m3 (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/m3 (worker)
	Acute - short-term exposure - local effects	384 mg/m3 (worker)
	Long-term exposure - systemic effects	192 mg/m3 (worker)
	Long-term exposure - local effects	192 mg/m3 (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)

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)

108-31-6 maleic anhydride
PNEC 0.033 mg/kg (sediment marine water)
0.334 mg/kg (sediment freshwater)
0.042 mg/kg (soil)
PNEC 44.6 mg/l (STP)
0.01 mg/l (aqua, marine water)
0.1 mg/l (aqua freshwater)

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

1330-20-7 xylene
WEL Short-term value: 441 mg/m³, 100 ppm
Long-term value: 220 mg/m³, 50 ppm
Sk; BMGV

100-41-4 ethylbenzene
WEL Short-term value: 552 mg/m³, 125 ppm
Long-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:
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 (xylenes)
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.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties
· General Information

· Physical state	Fluid
· Colour:	Clear
· Odour:	Characteristic
· Odour threshold:	Not determined.
· Melting point/freezing point:	Undetermined.
· Boiling point or initial boiling point and boiling range	≥136-≤145 °C (Reaction mass of ethylbenzene and xylene)
· Flammability	Flammable.

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· Lower and upper explosion limit	
· Lower:	≥1.1 Vol % (Reaction mass of ethylbenzene and xylene)
· Upper:	≤7 Vol % (Reaction mass of ethylbenzene and xylene)
· Flash point:	24 °C
· Auto-ignition temperature:	430 °C
· Decomposition temperature:	Not determined.
· pH	Not determined.
· Viscosity:	
· Kinematic viscosity at 20 °C	19 s (DIN 53211/4)
· Dynamic:	Not determined.
· Solubility	
· water:	Slightly soluble.
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure at 20 °C:	≤8 hPa (Reaction mass of ethylbenzene and xylene)
· Density and/or relative density	
· Density at 20 °C:	0.91 g/cm³
· 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:	92.0 %
· VOC (EC)	836.9 g/l 91.97 %
· Solids content:	6.0 %
· 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
· 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.

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· 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 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:

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)

108-31-6 maleic anhydride

Oral	LD50	400 mg/kg (rat)
Dermal	LD50	2,620 mg/kg (rabbit)

· Primary irritant effect:
· Skin corrosion/irritation
May cause an allergic skin reaction.
Causes skin irritation.
· Serious eye damage/irritation Causes serious eye irritation.
· Respiratory or skin sensitisation May cause an allergic skin reaction.
· STOT-single exposure May cause respiratory irritation.
· 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.
· 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)
LC50/24h	1 mg/l (daphnia magna) (OECD 202)

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.

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· Degree of elimination:

Reaction mass of ethylbenzene and xylene
BOD/28d 90 % (/)
· 12.3 Bioaccumulative potential

Reaction mass of ethylbenzene and xylene
LogPow 3.12-3.2 (/)

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.

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

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· 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.
· 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.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.

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H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H361d Suspected of damaging the unborn child.
H372 Causes damage to organs through prolonged or repeated exposure.
H373 May cause damage to organs through prolonged or repeated exposure.
H412 Harmful to aquatic life with long lasting effects.
EUH071 Corrosive to the respiratory tract.

· 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 Corr. 1B: Skin corrosion/irritation – Category 1B
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Resp. Sens. 1: Respiratory sensitisation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1A: Skin sensitisation – Category 1A
Repr. 2: Reproductive toxicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
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

· * Data compared to the previous version altered.