

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

- 1.1 Product identifier
- Trade name: **Perfect Line Cleaning Thinner**

- Article number: PL.SPTH.25
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- Sector of Use
 - SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
 - SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- Application of the substance / the mixture Washing liquid
- Uses advised against
 - Toluene: Shall not be placed on the market or used as a substance or constituent of preparations in a concentration equal to or higher than 0,1% by mass in adhesives and spray paints intended for sale to the general public.
 - SU21 Consumer uses: Private households / general public / consumers
- 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
 - Perfect Line
 - Postbus 90117
 - 5000 LA TILBURG
 - Nederland
 - T +31(0)857441118
 - E info@perfectline.nl
 - W www.perfectline.nl
- Further information obtainable from: Product safety department: info@perfectline.nl
- 1.4 Emergency telephone number:
 - National Poisoning Information Centre - Bilthoven - The Netherlands
 - T +31 (0)30 274 88 88
 - Restricted to physicians for information on ingredients.

* **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.



GHS08 health hazard

Repr. 2 H361d Suspected of damaging the unborn child.

STOT RE 2 H373 May cause 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.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

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 product is classified and labelled according to the CLP regulation.

(Contd. on page 2)

Trade name: **Perfect Line Cleaning Thinner**

(Contd. of page 1)

· Hazard pictograms



GHS02 GHS07 GHS08

· Signal word Danger

· Hazard-determining components of labelling:

toluene
acetone

Hydrocarbons, C9, aromatics

· Hazard statements

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H361d Suspected of damaging the unborn child.

H336 May cause drowsiness or dizziness.

H373 May cause damage to the central nervous system through prolonged or repeated exposure. Route of exposure: Inhalation.

H304 May be fatal if swallowed and enters airways.

· Precautionary statements

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

P260 Do not breathe mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

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:

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 Chemical characterisation: Mixtures

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

· Dangerous components %(m/m):

CAS: 108-88-3	toluene	50-75%
EINECS: 203-625-9	⚠ Flam. Liq. 2, H225; ⚠ Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304;	
Reg.nr.: 01-2119471310-51	⚠ Skin Irrit. 2, H315; STOT SE 3, H336	

CAS: 67-64-1	acetone	25-50%
EINECS: 200-662-2	⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	
Reg.nr.: 01-2119471330-49		

EC number: 918-668-5	Hydrocarbons, C9, aromatics	0.5-2.5%
Reg.nr.: 01-2119455851-35	⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ STOT SE 3, H335-H336	

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

— EU —
(Contd. on page 3)

Trade name: **Perfect Line Cleaning Thinner**

(Contd. of page 2)

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: In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact:
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
Remove contactlenses.
- After swallowing:
Do not induce vomiting; call for medical help immediately.
Rinse mouth.
- 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 fights with alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture
During heating or in case of fire poisonous gases are produced.
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
Mount respiratory protective device.
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).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- 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.
Prevent formation of aerosols.
- Information about fire - and explosion protection:
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Keep respiratory protective device available.
- 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.

(Contd. on page 4)

Trade name: **Perfect Line Cleaning Thinner**

(Contd. of page 3)

- 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

- Additional information about design of technical facilities: No further data; see item 7.
- 8.1 Control parameters
- Ingredients with limit values that require monitoring at the workplace:

108-88-3 toluene

IOELV Short-term value: 384 mg/m³, 100 ppm
 Long-term value: 192 mg/m³, 50 ppm
 Skin

67-64-1 acetone

- IOELV Long-term value: 1210 mg/m³, 500 ppm
- DNELs

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)

67-64-1 acetone

Dermal	Long-term exposure - systemic effects	186 mg/kg bw/day (worker)
Inhalative	Acute - short-term exposure - local effects	2,420 mg/m ³ (worker)
	Long-term exposure - systemic effects	1,210 mg/m ³ (worker)

Hydrocarbons, C9, aromatics

- Dermal Long-term exposure - systemic effects 25 mg/kg bw/day (worker)
- Inhalative Long-term exposure - systemic effects 150 mg/m³ (worker)
- PNECs

108-88-3 toluene

PNEC 16.39 mg/kg (sediment marine water)
 16.39 mg/kg (sediment freshwater)
 2.89 mg/kg (soil)
 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)

67-64-1 acetone

PNEC 3.04 mg/kg (sediment marine water)
 30.4 mg/kg (sediment freshwater)
 29.5 mg/kg (soil)
 PNEC 100 mg/l (STP)
 10.6 mg/l (aqua, freshwater)
 21 mg/l (aqua, intermittent releases)
 1.06 mg/l (aqua, marine water)

- Additional information: The lists valid during the making were used as basis.

(Contd. on page 5)

Trade name: **Perfect Line Cleaning Thinner**

(Contd. of page 4)

- 8.2 Exposure controls
- 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.
 - Do not inhale gases / fumes / aerosols.
 - Avoid contact with the eyes and skin.
- Respiratory protection:
 - 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.
 - Short term filter device:
 - Filter AX
- Protection of hands:



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 materials for safety gloves (EN 374):
 - Fluorocarbon rubber gloves (Viton)
- Penetration time of glove material
 - Thickness of the gloves ≥ 0.7 mm (toluene)
 - Value for the permeation: level ≥ 480 min (toluene)
 - The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- Eye protection:



Tightly sealed goggles

- Body protection: Solvent resistant protective clothing

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
- General Information
- Appearance:

Form:	Fluid
Colour:	Clear
- Odour: Characteristic
- Odour threshold: Not determined.
- pH-value: Not determined.
- Change in condition

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	55.8-56.6 °C
- Flash point: -1 °C
- Flammability (solid, gas): Not applicable.
- Ignition temperature: 465 °C
- Decomposition temperature: Not determined.

(Contd. on page 6)

Trade name: **Perfect Line Cleaning Thinner**

(Contd. of page 5)

· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Explosion limits:	
Lower:	1.2 Vol %
Upper:	13 Vol %
· Vapour pressure at 20 °C:	233 hPa
· Density at 20 °C:	0.83 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with water:	Slightly soluble.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic at 20 °C:	1 mPas
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	100.0 %
VOC (EC)	100.00 %
Solids content:	0.0 %
· 9.2 Other information	No further relevant information available.

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 High temperatures.
- 10.5 Incompatible materials: Oxidizing agents
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

* SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
- Acute toxicity Based on available data, the classification criteria are not met.
- 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 28.1 mg/l (rat)

67-64-1 acetone

Oral LD50 5,800 mg/kg (rat)
 Dermal LD50 7,400 mg/kg (rabbit)
 Inhalative LC50/4h 76 mg/l (rat)

Hydrocarbons, C9, aromatics

Oral LD50 3,592 mg/kg (rat)

(Contd. on page 7)

Trade name: **Perfect Line Cleaning Thinner**

(Contd. of page 6)

- Dermal LD50 >3,160 ml/kg (rabbit)
- Inhalative LC50/4h >10.2 mg/l (rat)
- Primary irritant effect:
- Skin corrosion/irritation
Causes skin irritation.
- Serious eye damage/irritation
Causes serious eye irritation.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
Repr. 2
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity
Suspected of damaging the unborn child.
- STOT-single exposure
May cause drowsiness or dizziness.
- STOT-repeated exposure
May cause 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.

* SECTION 12: Ecological information

- 12.1 Toxicity
- Aquatic toxicity:

108-88-3 toluene

- NOEC/72h 10 mg/l (Skeletonema costatum)
- EC50/3h 134 mg/l (Chlorella vulgaris)
- NOEC/7d 0.74 mg/l (Ceriodaphnia dubia)
- LOEC/7d 2.76 mg/l (Ceriodaphnia dubia)
- NOEC/40d 1.39 mg/l (Oncorhynchus kisutch)
- LOEC/40d 2.77 mg/l (Oncorhynchus kisutch)
- EC50/48h 3.78 mg/l (daphnia magna)
- EC50/7d 3.23 mg/l (Ceriodaphnia dubia)
- LC50/96h 5.5 mg/l (Oncorhynchus kisutch)

67-64-1 acetone

- EC50 8,800 mg/l (daphnia magna)
- EC50/96h 8,300 mg/l (Iepomis macrochirus)
- IC50 >100 mg/l (algae)
- >100 mg/l (fish)

Hydrocarbons, C9, aromatics

- LL50/96h 9.2 mg/l (oncorhynchus mykiss) (OESO 203)
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential

108-88-3 toluene

- BCF 90 (/)
- LogPow 2.73 (/)
- 12.4 Mobility in soil No further relevant information available.
- 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.

(Contd. on page 8)

Trade name: **Perfect Line Cleaning Thinner**

(Contd. of page 7)

- Danger to drinking water if even small quantities leak into the ground.
- 12.5 Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.
- 12.6 Other adverse effects No further relevant information available.

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.
- European waste catalogue
07 01 04* other organic solvents, washing liquids and mother liquors
- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

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

UN1263

1263 PAINT RELATED MATERIAL
PAINT RELATED MATERIAL

- Class
- Label
- 14.4 Packing group
- ADR/ADN, IMDG, IATA
- 14.5 Environmental hazards:
- Marine pollutant:
- 14.6 Special precautions for user
- Danger code (Kemler):
- EMS Number:
- Stowage Category
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code
- Transport/Additional information:

3 Flammable liquids.

3

II

No

Warning: Flammable liquids.

33

F-E,S-E

B

Not applicable.

- ADR/ADN
- Limited quantities (LQ)
- Excepted quantities (EQ)
- Transport category
- Tunnel restriction code

5L

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

2

D/E

- IMDG
- Limited quantities (LQ)
- Excepted quantities (EQ)

5L

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

(Contd. on page 9)

Trade name: **Perfect Line Cleaning Thinner**

(Contd. of page 8)

· UN "Model Regulation": UN 1263 PAINT RELATED MATERIAL, 3, II

* SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
 - 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
 - REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 48
- 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.
 - H315 Causes skin irritation.
 - H319 Causes serious eye irritation.
 - H335 May cause respiratory irritation.
 - H336 May cause drowsiness or dizziness.
 - H361d Suspected of damaging the unborn child.
 - H373 May cause damage to the central nervous system through prolonged or repeated exposure. Route of exposure: Inhalation.
 - H411 Toxic to aquatic life with long lasting effects.
- Department issuing SDS: Product safety department.
- Contact: Ing. R. Derks
- 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 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 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 (REACH)
 - PNEC: Predicted No-Effect Concentration (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
 - 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 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
- * Data compared to the previous version altered.