

**Safety data sheet**  
according to Regulation (EC) No 1907/2006, Article 31

Printing date 09.07.2025

Version number 1

Revision: 08.01.2025

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

- **1.1 Product identifier**
- **Trade name:** *Diluent 4-100*
- **Article number:** NL-4710100
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
*No further relevant information available.*
- **Application of the substance / the mixture** *Thinner, Diluent*
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
*Nirlat Ltd.  
Kibbutz Nir Oz  
D.N. Negev 85122  
ISRAEL*
- **Further information obtainable from:** *Product safety department*
- **1.4 Emergency telephone number:** *During normal opening times: +972 8 9986330*

**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 organs through prolonged or repeated exposure.  
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.*



*GHS07*

*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 CLP regulation.*

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**· Hazard pictograms**



GHS02    GHS07    GHS08

**· Signal word Danger**

**· Hazard-determining components of labelling:**

*xylene  
toluene  
4-methylpentan-2-one  
propan-2-ol*

**· Hazard statements**

H225    Highly flammable liquid and vapour.  
 H332    Harmful if inhaled.  
 H315    Causes skin irritation.  
 H319    Causes serious eye irritation.  
 H361d    Suspected of damaging the unborn child.  
 H335-H336    May cause respiratory irritation. May cause drowsiness or dizziness.  
 H373    May cause damage to organs through prolonged or repeated exposure.  
 H304    May be fatal if swallowed and enters airways.  
 H412    Harmful to aquatic life with long lasting effects.

**· Precautionary statements**

P101    If medical advice is needed, have product container or label at hand.  
 P102    Keep out of reach of children.  
 P103    Read label before use.  
 P210    Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P301+P310    IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
 P321    Specific treatment (see on this label).  
 P331    Do NOT induce vomiting.  
 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.  
 P362+P364    Take off contaminated clothing and wash it before reuse.  
 P405    Store locked up.  
 P501    Dispose of contents/container in accordance with local/regional/national/international regulations.

**· 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**

**3.2 Mixtures**

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

**Dangerous components:**

CAS: 1330-20-7 EINECS: 215-535-7	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	>25-≤50%
CAS: 108-10-1 EINECS: 203-550-1 Index number: 606-004-00-4	4-methylpentan-2-one  Flam. Liq. 2, H225;  Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H335, EUH066 ATE: LC50/4 h inhalative: 11 mg/l	>10-≤25%
CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0	propan-2-ol  Flam. Liq. 2, H225;  Eye Irrit. 2, H319; STOT SE 3, H336	>10-≤25%
CAS: 108-88-3 EINECS: 203-625-9 Index number: 601-021-00-3	toluene  Flam. Liq. 2, H225;  Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304;  Skin Irrit. 2, H315; STOT SE 3, H336	>10-≤25%

**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. 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.

**After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**After swallowing:** If symptoms persist consult doctor.

**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>, powder or water spray. Fight larger fires with water spray or 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.*
- **5.3 Advice for firefighters**  
**Protective equipment:** Mouth 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.*  
*Do not allow product to reach sewage system or any water course.*  
*Prevent seepage into sewage system, workpits and cellars.*  
*Inform respective authorities in case of seepage into water course or sewage system.*
- **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.*
- **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**  
*Do not eat, drink or smoke while working. Refer to section 8 concerning personal percaution.*
- **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.  
**Information about storage in one common storage facility:** Not required.  
**Further information about storage conditions:**  
*Keep container tightly sealed.*

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*Store in cool, dry conditions in well sealed receptacles.*  
**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:**

**108-10-1 4-methylpentan-2-one**

IOELV	Short-term value: 208 mg/m <sup>3</sup> , 50 ppm Long-term value: 83 mg/m <sup>3</sup> , 20 ppm
TLV	Short-term value: 6 mg/m <sup>3</sup>

**67-63-0 propan-2-ol**

TLV	Short-term value: 6 mg/m <sup>3</sup>
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**108-88-3 toluene**

IOELV	Short-term value: 384 mg/m <sup>3</sup> , 100 ppm Long-term value: 192 mg/m <sup>3</sup> , 50 ppm Skin
TLV	Short-term value: 6 mg/m <sup>3</sup>

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

**8.2 Exposure controls**

**Appropriate engineering controls** No further data; see section 7.

**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:**

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.

**Hand protection**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**Material of gloves**

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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**· Penetration time of glove material**

*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*

**SECTION 9: Physical and chemical properties**

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

**· General Information**

**· Physical state**

*Liquid*

**· Colour:**

*Colourless*

**· Odour:**

*Characteristic*

**· Odour threshold:**

*Not determined.*

**· Melting point/freezing point:**

*Undetermined.*

**· Boiling point or initial boiling point and boiling range**

*79 °C*

**· Flammability**

*Highly flammable.*

**· Lower and upper explosion limit**

*0.9 Vol %*

**· Lower:**

*12 Vol %*

**· Upper:**

*4 °C*

**· Flash point:**

*425 °C*

**· Auto-ignition temperature:**

*Not determined.*

**· Decomposition temperature:**

*Not determined.*

**· pH**

*Not determined.*

**· Viscosity:**

*Not determined.*

**· Kinematic viscosity**

*Not determined.*

**· Dynamic:**

*Not determined.*

**· Solubility**

*Not miscible or difficult to mix.*

**· water:**

*Not determined.*

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

*Not determined.*

**· Vapour pressure at 20 °C:**

*43 hPa*

**· Density and/or relative density**

*0.83828 g/cm³*

**· Density at 20 °C:**

*Not determined.*

**· Relative density**

*Not determined.*

**· Vapour density**

*Not determined.*

**· 9.2 Other information**

**· Appearance:**

*Liquid*

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· <b>Important information on protection of health and environment, and on safety.</b>	
· <b>Ignition temperature:</b>	Product is not selfigniting.
· <b>Explosive properties:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· <b>Solvent content:</b>	
· <b>Organic solvents:</b>	100.0 %
· <b>VOC (EC)</b>	838.3 g/l
· <b>Solids content:</b>	0.0 %
· <b>Change in condition</b>	
· <b>Evaporation rate</b>	Not determined.
· <b>Information with regard to physical hazard classes</b>	
· <b>Explosives</b>	Void
· <b>Flammable gases</b>	Void
· <b>Aerosols</b>	Void
· <b>Oxidising gases</b>	Void
· <b>Gases under pressure</b>	Void
· <b>Flammable liquids</b>	Highly flammable liquid and vapour.
· <b>Flammable solids</b>	Void
· <b>Self-reactive substances and mixtures</b>	Void
· <b>Pyrophoric liquids</b>	Void
· <b>Pyrophoric solids</b>	Void
· <b>Self-heating substances and mixtures</b>	Void
· <b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
· <b>Oxidising liquids</b>	Void
· <b>Oxidising solids</b>	Void
· <b>Organic peroxides</b>	Void
· <b>Corrosive to metals</b>	Void
· <b>Desensitised explosives</b>	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** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

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**SECTION 11: Toxicological information**

**· 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

**· Acute toxicity** Harmful if inhaled.

**· LD/LC50 values relevant for classification:**

**108-10-1 4-methylpentan-2-one**

Oral	LD50	2,080 mg/kg (rat)
Dermal	LD50	16,000 mg/kg (rab)
Inhalative	LC50/4 h	11 mg/l (ATE) 8.3-16.6 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.

**· 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 respiratory irritation. May cause drowsiness or dizziness.

**· STOT-repeated exposure** May cause damage to organs through prolonged or repeated exposure.

**· 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:** No further relevant information available.

**· 12.2 Persistence and degradability** No further relevant information available.

**· 12.3 Bioaccumulative potential** No further relevant information available.

**· 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.

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*Harmful to aquatic organisms*

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**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, IMDG, IATA**

UNI263

**· 14.2 UN proper shipping name**

**· ADR**

1263 PAINT RELATED MATERIAL

**· IMDG, IATA**

PAINT RELATED MATERIAL

**· 14.3 Transport hazard class(es)**

**· ADR, IMDG, IATA**



**· Class**

3 Flammable liquids.

**· Label**

3

**· 14.4 Packing group**

**· ADR, IMDG, IATA**

II

**· 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-E

**· Stowage Category**

B

**· 14.7 Maritime transport in bulk according to IMO instruments**

Not applicable.

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**· Transport/Additional information:**

**· ADR**

- **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

**· Transport category**

2

**· Tunnel restriction code**

D/E

**· IMDG**

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

1L

Code: E2

Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 500 ml

**· 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

**· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

**· REGULATION (EU) 2019/1148**

**· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

**· Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

**· Regulation (EC) No 273/2004 on drug precursors**

108-88-3 toluene

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**· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

108-88-3 toluene

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- **National regulations:**
- **Other regulations, limitations and prohibitive regulations**  
Use tactile warning  
Use Child Resistant Fastener
- **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.  
EUH066 Repeated exposure may cause skin dryness or cracking.

· **Department issuing SDS: product safety department**

· **Contact:** Mr. Ori Raz orir@nirlat.com

· **Date of previous version:** 12.05.2022

· **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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

ATE: Acute toxicity estimate values

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

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*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*

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