

**Safety data sheet**  
**according to 1907/2006/EC, Article 31**

Printing date 12.05.2022

Revision: 12.05.2022

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

- **1.1 Product identifier**
- **Trade name:** Formula 1 yellow
- **Article number:** NL-5284151
- **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** Paint
- **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.



GHS07

Skin Irrit. 2 H315 Causes skin 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.

- **Hazard pictograms**



GHS02



GHS07



GHS08

- **Signal word** Danger

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**Hazard-determining components of labelling:**

toluene

propan-2-ol

**Hazard statements**

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H361d Suspected of damaging the unborn child.

H336 May cause drowsiness or dizziness.

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

**Precautionary statements**

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

P241 Use explosion-proof [electrical/ventilating/lighting] equipment.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Additional information:**

Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

**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:**

|  |   |            |
|--|---|------------|
| CAS: 108-88-3<br>EINECS: 203-625-9<br>Index number: 601-021-00-3   | toluene<br>Flam. Liq. 2, H225; Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304; Skin Irrit. 2, H315; STOT SE 3, H336   | >25-≤50%   |
| CAS: 1330-20-7<br>EINECS: 215-535-7                                | xylene<br>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 | >2.5-≤10%  |
| CAS: 67-63-0<br>EINECS: 200-661-7<br>Index number: 603-117-00-0    | propan-2-ol<br>Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336  | ≤2.5%      |
| CAS: 13463-67-7<br>EINECS: 236-675-5<br>Index number: 022-006-00-2 | titanium dioxide<br>Carc. 2, H351   | ≥0.1-≤2.5% |

**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:** 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.
- **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.

### 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.  
Prevent seepage into sewage system, workpits and cellars.
- **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**

Do not eat, drink or smoke while working. Refer to section 8 concerning personal percaution.

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- **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.  
 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

|  |   |
|--|---|
| <ul style="list-style-type: none"> <li>· <b>8.1 Control parameters</b></li> <li>· <b>Additional information about design of technical facilities:</b> <i>No further data; see item 7.</i></li> <li>· <b>Ingredients with limit values that require monitoring at the workplace:</b></li> </ul> |   |
| <b>108-88-3 toluene</b>  |   |
| IOELV  | <i>Short-term value: 384 mg/m<sup>3</sup>, 100 ppm<br/>   Long-term value: 192 mg/m<sup>3</sup>, 50 ppm<br/>   Skin</i> |
| TLV  | <i>Short-term value: 6 mg/m<sup>3</sup></i>   |
| <b>67-63-0 propan-2-ol</b>   |   |
| TLV  | <i>Short-term value: 6 mg/m<sup>3</sup></i>   |

- **Additional information:** *The lists valid during the making were used as basis.*
- **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.  
 Avoid contact with the skin.  
 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.*
- **Protection of hands:**



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.*

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*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.*

**· 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 protection:**



Tightly sealed goggles

**SECTION 9: Physical and chemical properties**

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

**· General Information**

**· Appearance:**

**Form:** Liquid

**Colour:** Yellow

**· Odour:** Characteristic

**· Odour threshold:** Not determined.

**· pH-value:** Not determined.

**· Change in condition**

**Melting point/freezing point:** Undetermined.

**Initial boiling point and boiling range:** 110 °C

**· Flash point:** 4 °C

**· Flammability (solid, gas):** Not applicable.

**· Ignition temperature:** 535 °C

**· Decomposition temperature:** Not determined.

**· 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:** 7 Vol %

**· Vapour pressure at 20 °C:** 29 hPa

**· Density at 20 °C:** 1.36 g/cm³

**· Relative density**

Not determined.

**· Vapour density**

Not determined.

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|  |   |
|--|---|
| · <b>Evaporation rate</b>                        | <i>Not determined.</i>                            |
| · <b>Solubility in / Miscibility with water:</b> | <i>Not miscible or difficult to mix.</i>          |
| · <b>Partition coefficient: n-octanol/water:</b> | <i>Not determined.</i>                            |
| · <b>Viscosity:</b>                              |   |
| <b>Dynamic:</b>                                  | <i>Not determined.</i>                            |
| <b>Kinematic at 20 °C:</b>                       | <i>90 s (ISO 6 mm)</i>                            |
| · <b>Solvent content:</b>                        |   |
| <b>Organic solvents:</b>                         | <i>30.5 %</i>                                     |
| <b>VOC (EC)</b>                                  | <i>414.8 g/l</i>                                  |
| · <b>Solids content:</b>                         | <i>69.5 %</i>                                     |
| · <b>9.2 Other information</b>                   | <i>No further relevant information available.</i> |

## 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.*

## 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:**

|                         |          |                       |
|-------------------------|----------|-----------------------|
| <b>108-88-3 toluene</b> |          |                       |
| Oral                    | LD50     | 5,000 mg/kg (rat)     |
| Dermal                  | LD50     | 12,124 mg/kg (rabbit) |
| Inhalative              | LC50/4 h | 5,320 mg/l (mouse)    |

- **Primary irritant effect:**
- **Skin corrosion/irritation**  
*Causes skin irritation.*
- **Serious eye damage/irritation** *Based on available data, the classification criteria are not met.*
- **Respiratory or skin sensitisation** *Based on available data, the classification criteria are not met.*
- **Additional toxicological information:**
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **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.*

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- **STOT-single exposure**  
*May cause drowsiness or dizziness.*
- **STOT-repeated exposure**  
*May cause damage to organs through prolonged or repeated exposure.*
- **Aspiration hazard** Based on available data, the classification criteria are not met.

### 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.
- **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.*
- **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.*
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

|  |                   |
|--|-------------------|
| · <b>14.1 UN-Number</b>                  |                   |
| · <b>ADR, IMDG, IATA</b>                 | <b>UNI263</b>     |
| · <b>14.2 UN proper shipping name</b>    |                   |
| · <b>ADR</b>                             | <b>1263 PAINT</b> |
| · <b>IMDG, IATA</b>                      | <b>PAINT</b>      |
| · <b>14.3 Transport hazard class(es)</b> |                   |
| · <b>ADR, IMDG, IATA</b>                 |                   |



- **Class** 3 Flammable liquids.

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|  |  |
|--|--|
| · <b>Label</b>   | 3  |
| · <b>14.4 Packing group</b><br>· <b>ADR, IMDG, IATA</b>  | III  |
| · <b>14.5 Environmental hazards:</b><br>· <b>Marine pollutant:</b>                                 | No   |
| · <b>14.6 Special precautions for user</b><br>· <b>Hazard identification number (Kemler code):</b> | Warning: Flammable liquids.<br>-   |
| · <b>EMS Number:</b>   | F-E,S-E  |
| · <b>Stowage Category</b>  | A  |
| · <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>                   | Not applicable.  |
| <hr/>  |  |
| · <b>Transport/Additional information:</b>   |  |
| · <b>ADR</b>   |  |
| · <b>Limited quantities (LQ)</b>   | 5L   |
| · <b>Excepted quantities (EQ)</b>  | Code: E1<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 1000 ml |
| · <b>Transport category</b>  | 3  |
| · <b>Tunnel restriction code</b>   | E  |
| · <b>IMDG</b>  |  |
| · <b>Limited quantities (LQ)</b>   | 5L   |
| · <b>Excepted quantities (EQ)</b>  | Code: E1<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 1000 ml |
| · <b>UN "Model Regulation":</b>  | UN 1263 PAINT, 3, III  |

### 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, 52a
- **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.

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**· Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

*None of the ingredients is listed.*

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

108-88-3 | toluene

3

**· 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

3

**· National regulations:**

**· Other regulations, limitations and prohibitive regulations** For industrial / professional use only

**· 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.

H351 Suspected of causing cancer.

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**

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

**· 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)

**IATA-DGR:** Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

**ICAO:** International Civil Aviation Organisation

**ICAO-TI:** Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

**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

**Flam. Liq. 2:** Flammable liquids – Category 2

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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

Carc. 2: Carcinogenicity – 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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