

**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1. Product identifier:****Product name:** THINNER SOLL NITRO 646**Article number:** STN1 010, STN1 050, STN1 200**1.2. Relevant identified uses of the substance or mixture and uses advised against:** Designed to dilute nitrocellulose products to the required viscosity, also used for washing painting tools. Can be used as a paint remover.**1.3. Manufacturer/Supplier:**

UAB HELVINA

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E-mail: [info@helvina.lt](mailto:info@helvina.lt)[www.helvina.lt](http://www.helvina.lt)**1.4. Further information obtainable from:** Laboratory**Emergency telephone number:**

Poison control and information office: Tel.: +370 5 236 2052 or +370 687 53378

**2. HAZARDS IDENTIFICATION****2.1. Classification of the mixture**

This mixture is classified as dangerous.

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Flam.Liq.2, H225

Repr.2, H361d

Asp. Tox.1, H304

STOT RE 2, H373

Skin Irrit.2, H315

Eye Irrit.2, H319

STOT SE 3, H336

EUH066

**Classification according to Directive 67/548/EEC or 1999/45/EC**

F, R11

Xn, R65, R48/20,

Xi, R36/38, R66; R67

Repro.Kat.3, R63

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

toluene

acetone

**Hazard statements:**

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

Printing date: 01-06-2009

Revision: 03-11-2014

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H361 Suspected of damaging fertility or the unborn child.

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

**Precautionary statements:**

P102 Keep out of reach of children.

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

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

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

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

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

**Additional information:**












EUH066 Repeated exposure may cause skin dryness or cracking.

**2.3 Other hazards**

No information on the criteria for PBT or vPvB in accordance with Annex XIII of REACH.

**Other hazards which do not result in classification:** Unknown.**3. COMPOSITION/INFORMATION ON INGREDIENTS****3.2. Mixtures:**

Hazardous ingredients:

CAS: 108-88-3 EINECS: 203-625-9 Index No: 601-021-00-3	Toluene  F; R11,  Xn, R48/20, R65;  Xi; R38, R67 Repr. Cat. 3, R63;  Flam. Liq. 2, H225; Repr. 2, H361d;  Asp. Tox. 1, H304;  STOT RE 2, H373; Skin Irrit. 2, H315;  STOT SE 3, H336	50 – 70 %
CAS: 67-64-1 EINECS: 200-662-2 Index No: 606-001-00-8	Acetone  F; R11;  Xi; R36, R66, R67  Flam. Liq. 2, H225; Eye Irrit. 2, H319;  STOT SE 3, H336, EUH066	25 – 50 %

**Additional information:** See section 16 for full text of R-phrases and H-statements.**4. FIRST AID MEASURES****4.1. Description of first aid measures**

**INHALATION:** Remove affected person from the contaminated environment. Place the injured person lying down. Keep warm and calm. Loosen tight clothing. Ensure adequate ventilation. If necessary - provide artificial respiration or oxygen. Seek medical attention.

**INGESTION:** Immediately get medical attention. Do not induce vomiting - risk of aspiration into the lungs. In the event of a natural reflex vomiting occurs, keep the victim in an inclined position to the front. If you experience shortness of breath, give oxygen to breathe.

**EYE CONTACT:** Rinse opened eye for several minutes (about 15) with plenty of water (remove contact lenses before). Do not use too strong stream of water to prevent damage to the cornea. In the case of the occurrence and symptoms persist seek medical attention.

**SKIN CONTACT** Remove contaminated clothing and shoes. After contact with skin, wash thoroughly with plenty of soap and water. Continue to rinse for at least 10 minutes. In the case of the occurrence and symptoms persist seek medical attention.

**4.2. Most important symptoms and effects, both acute and delayed**

Printing date: 01-06-2009

Revision: 03-11-2014

May cause lung damage if swallowed, revealing, for example, bronchial pneumonia. Repeated or prolonged exposure may cause disorders of the central nervous system such as headache, dizziness, lack of coordination, drowsiness. Very high concentrations of vapors may result in unconsciousness. Repeated exposure may cause skin dryness or cracking.

**4.3. Indication of any immediate medical attention and special treatment needed**

Never give anything by mouth to an unconscious person and do not induce vomiting. Display the safety data sheet or label providing the assistance of medical staff. For those providing assistance in the area of unknown concentrations of vapors should be equipped with self-contained compressed air breathing apparatus.

**Advice to doctor:** Treat symptomatically.

**5. FIRE-FIGHTING MEASURES****5.1. Extinguishing media**

SUITABLE EXTINGUISHING MEDIA: CO<sub>2</sub>, dry powder, foam, water spray or water mist.

UNSUITABLE EXTINGUISHING MEDIA: full water jet.

**5.2. Special hazards arising from the substance or mixture**

Highly flammable liquid. During a fire, under the influence of high temperatures releases oxides of carbon. Avoid inhalation of combustion products - can be hazardous to your health.

**5.3. Advice for fire-fighters**

Follow the procedures in place for firefighting chemicals. In the event of a fire involving a large amount of product, evacuated from the danger zone all unauthorized persons not connected with the fire-fighting. Fight fire from a safe distance, behind screens or by using unmanned equipment. Call rescue.

Cool closed containers exposed to fire or high temperature dispersed streams of water from a safe distance (risk of explosion), as far as possible and safely remove them from the danger zone. After removal from the danger zone to continue spraying until completely cool.

Do not allow firefighting water to enter drains or water courses. The resulting waste and residues from fire debris disposed of in accordance with local regulations.

People associated with firefighting, should be trained to provide breathing apparatus with independent air supply and wear protective clothing.

**6. ACCIDENTAL RELEASE MEASURES****6.1. Personal precautions, protective equipment and emergency procedures**

Inform the relevant authorities about the accident. Remove from the danger zone to all persons who are not included in the liquidation of consequences of the event. If necessary to evacuate. Call the National Fire Service, rescue teams and Police. The rescue may participate only trained personnel, equipped with appropriate protective clothing and equipment.

Avoid contact with eyes, skin and clothing. Do not breathe vapours.

NOTE: The confined space must ensure effective ventilation / extraction spill. Use personal protective equipment - see section 8.

NOTE: Highly flammable liquid.

Remove all sources of ignition - extinguish flames, do not smoke, do not use sparking tools and equipment, eliminate hot surfaces and other sources of heat. Take precautionary measures against static discharges. Couples dispersed with water currents.

**For non-emergency personnel:** Contamination removal work is only open to persons who are familiar with the rescue chemical environments.

**Emergency personnel involved:** see section 8.

**6.2. Environmental precautions**

If possible and safe to remove or reduce the product's release to the environment (reduce fluid flow, damaged container insert the emergency container). Do not allow product to enter drains, water and soil. Limit the spread of the spill impervious surface. Inform the relevant safety and health services, emergency and environmental authorities.

**6.3. Methods and material for containment and cleaning up**

Absorb with liquid-binding material inert non-combustible absorbent material (egg, soil, sand, vermiculite) and put in a closed, labeled container for disposal. Dispose in accordance with applicable regulations. Collect large

Printing date: 01-06-2009

Revision: 03-11-2014

amounts of the liquid. If necessary, in order to remove the product / absorbent material contaminated product assistance from specialized companies engaged in the transportation and elimination of waste.

**6.4. Reference to other sections**

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

**7. HANDLING AND STORAGE****7.1 Precautions for safe handling**

**Poisoning prevention:** Avoid formation of vapor concentrations which exceed the occupational exposure limit values. Ensure adequate ventilation. Avoid direct contact with liquids; avoid contact with eyes and skin. Avoid breathing vapors / mists. Avoid contact with clothing. Unused containers tightly sealed. Use personal protective equipment as listed in section 8 of SDS.

General rules of hygiene: Do not eat, drink or smoke in the workplace. Contaminated clothing should be immediately removed and changed. Always after use, wash hands with soap and water.

**Fire and explosion prevention:** Prevent the creation of flammable / explosive concentrations of vapor in the air. Eliminate sources of ignition - do not use open flames, do not smoke, do not use sparking tools and equipment, do not use garments from fabrics susceptible to electrification. Take precautionary measures against static discharges. Use bridging and grounding receptacles. Protect containers from heat. In place of storage provide easy access to fire-fighting and rescue equipment (fire, spill, leak, etc.).

NOTE: Empty uncleaned containers may contain product residue (liquid, vapor) and can create a risk of fire / explosion. Be careful. Uncleaned containers must not: heat, cut, drill, grind, weld or perform these activities in their vicinity.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in the original, properly labeled containers resistant to the product. Ensure adequate ventilation. Follow the rules on the storage of flammable liquids. Eliminate sources of heat and ignition. Do not smoke. Protect from direct sunlight. Do not smoke, use open flame in the warehouse. These conditions also apply to the storage of empty uncleaned containers. Keep away from strong oxidizers. People who have contact with the product to train in the field of physico-chemical properties and the resulting risks.

**7.3 Specific end use(s)**

Not available.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. Control parameters****Occupational exposure in the work environment:**

TOLUENE (CAS: 108-88-3)

Long-term value: 100 mg / m<sup>3</sup>

Short-term value: 200 mg / m<sup>3</sup>

ACETONE (CAS: 67-64-1)

Long-term value: 600 mg / m<sup>3</sup>

Short-term value: 1800 mg / m<sup>3</sup>

**8.2 Exposure controls**

**The corresponding technical measures:** General ventilation and / or local exhaust ventilation to maintain the concentration of harmful substances in the air below the exposure limit. Local exhaust is preferred because it allows you to control emissions at source and prevent the spread of the entire work area.

**Personal protective equipment**

**EYE PROTECTION:** Wear safety glasses sealed enclosure. It is recommended to equip the workplace in water shower for rinsing eyes.

**HAND AND SKIN PROTECTIVE EQUIPMENT:** Wear protective gloves impermeable and resistant to the product (recommended PVA, nitrile). The selection of glove material must be made taking into account the breakthrough times, permeation rates and degradation. The manufacturer should provide detailed information on the exact break through time and observe it. It is recommended to regularly change the gloves and immediately replace them if there are any signs of wear and tear (rupture, perforation) or changes in appearance (color, elasticity, shape). Wear apron or protective clothing with coating materials resistant to the product (as indicated in the version electrostatic clothes), protective shoes.

Printing date: 01-06-2009

Revision: 03-11-2014

**RESPIRATORY PROTECTION:** In case of insufficient ventilation, wear a mask or respirator with a filter or apparatus with independent air supply. Use breathing apparatus with independent air supply, if you are working in an enclosed space, in an oxygen deficiency in the air at high uncontrolled emission quantity or for other circumstances where a mask with a filter does not provide adequate protection.

**Thermal hazards:** Not applicable.

**Environmental exposure controls:** You should consider precautionary measures to protect the area around the storage tanks. Avoid entering soil, sewers, and waterways.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties:

Appearance:	Liquid
Colour:	Colorless
Odour:	Characteristic
pH value:	No data available
Boiling point:	60 °C
Flash point:	< 12 °C.
Evaporation rate:	No data available
Flammability (solid, gas):	Not applicable
Explosion limits (lower / upper):	1,2 % volume / 7,0 % volume
Vapor pressure:	about 43 kPa at 40 ° C
Vapor density:	No data available
Relative density (20 °C):	844 g/dm <sup>3</sup>
Solubility in water:	Very poor
Solubility in organic solvents:	Soluble
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Viscosity:	< 20,5 mm <sup>2</sup> /s
Oxidising properties:	Not applicable

### 9.2. Other information:

Surface tension	Not applicable
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## 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

This product is not reactive and do not undergo polymerization.

### 10.2. Chemical stability

The product is stable under normal ambient conditions, and the predicted temperature and pressure expected during storage and handling.

### 10.3. Possibility of hazardous reactions

Hazardous reactions are not known.

### 10.4. Conditions to avoid

Heat, open flames and other sources of heat and ignition.

### 10.5. Incompatible materials

Strong oxidizers. It softens and dissolves some plastics.

### 10.6. Hazardous decomposition products

Not known. Information about hazardous products of combustion, see section 5.

## 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects.

#### General information:

Harmful. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Harmful: may cause lung damage if swallowed. Toxic for reproduction Cat 3. Possible risk of harm to the unborn child.

Irritant. Irritating to the skin. Irritant. Irritating to the skin. Repeated exposure may cause skin dryness or cracking.

Printing date: 01-06-2009

Revision: 03-11-2014

**Toxicological information:**

Data for component: TOLUENE

LD50 (oral, rat) 636 mg/kg  
LD50 (inhalation, rat, 4h) 49 mg/ m<sup>3</sup>  
LD50 (dermal, rabbit) 12124 mg/kg

Data for component: ACETONE

LD50 (oral, rat) 5800 mg/kg  
LD50 (inhalation, rat, 4h) 76 mg/ m<sup>3</sup>  
LD50 (dermal, rabbit) 20000 mg/kg

**12. ECOLOGICAL INFORMATION**

The product is not classified as dangerous for the environment. It does not contain substances classified as hazardous to the environment.

**12.1. Toxicity:**

No data available.

**12.2. Persistence and degradability:**

No data available.

**12.3. Bioaccumulative potential:**

No data available.

**12.4. Mobility in soil:**

No data available.

**12.5. Results of PBT and vPvB assessment:**

No information on the criteria for PBT or vPvB in accordance with Annex XIII of REACH.

**12.6. Other adverse effects**

No data available.

**13 DISPOSAL CONSIDERATIONS****13.1. Waste treatment methods:****Waste code:****07 01 04** \* other organic solvents, washing liquids and mother liquors.**15 01 10** \* packaging containing residues of hazardous substances or contaminated.

Do not allow to enter drains. Prevent pollution of surface water and groundwater. Consider use. Waste treatment and disposal must be consistent with the relevant environmental protection authorities. Product residues should be stored in original containers. Waste must be handled in accordance with applicable regulations. Recovery / recycling / utilization of packaging waste carried out in accordance with regulations.

NOTE: Only the completely emptied packaging can be recycled! Use the services of companies that have the appropriate permissions.

**14 TRANSPORT INFORMATION**

The product subject to regulations concerning the transport of dangerous goods contained in the ADR (road), RID (rail), ADN (inland transport), IMDG (sea), ICAO / IATA (air).

**14.1. UN number:** UN 1263**14.2. UN proper shipping name:** PAINTS, PAINT RELATED MATERIAL**14.3. Transport hazard class(es):** 3 / F1

Hazard identification: 33

Hazard label: 3

**14.4. Packing group:** II

Not applicable.

**14.5. Environmental hazards:** No**14.6. Special precautions for user:** None**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** No data available.



**15 REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

\* Regulation (EC) No 1907/2006 of THE EUROPEAN PARLIAMENT AND THE COUNCIL of 18 December 2006 *Concerning the Registration, Evaluation, Authorization and Restriction of Chemicals* (REACH), with subsequent amendments.

\* Commission Regulation (EU) No. 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of THE EUROPEAN PARLIAMENT AND THE COUNCIL *Concerning the Registration, Evaluation, Authorization and Restriction of Chemicals* (REACH).

\* Regulation (EC) No 1272/2008 (CLP) (Article 55, Annex VI, Table 3.2) of THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 *On classification, labelling and packaging of substances and mixtures*, with subsequent amendments.

\* Council Directive No. 75/442/EEC *On waste* and Council Directive No. 91/689/EEC *On hazardous waste*. Commission Decision No 2000/532/EC of 3 May 2000, stating the list of waste, OJ No. L 226 / 3, 6 September 2000, along with changing decisions.

**15.2 Chemical Safety Assessment:** Not available.

**16 OTHER INFORMATION**

Full text of H- phrases appearing in section 2 and 3:

H225 Highly flammable liquid and vapors.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H319 Causes serious eye damage.

H336 May cause drowsiness or dizziness.

H361 Suspected of damaging fertility or the unborn child.

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

EUH066 Repeated exposure may cause skin dryness or cracking.

Full text of R- phrases appearing in section 2 and 3:

R11 Highly flammable.

R36 Irritating to eyes.

R38 Irritating to skin.

R48/20 Danger of serious damage to health by prolonged exposure through inhalation.

R63 Possible risk of harm to the unborn child.

R65 Harmful: may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

**Abbreviations and acronyms used in the safety data sheet:**

vPvB: Very persistent very bioaccumulative.

PBT: Persistent, bioaccumulative and toxic.

PNEC: Predicted no effect concentration.

DNEL: Derived no effect level.

LD50: Lethal Dose for 50% of animals.

LC50: Lethal Concentration for 50% of animals.

ECX: Concentration at which the observed X% reduction in growth or growth rate.

LOEC: Lowest concentration causing observable effect.

NOEL: Highest concentration at which no effect is observed.

RID: Regulation concerning the International carriage of Dangerous goods.

ADR: Agreement concerning the international carriage of Dangerous goods by Road.

IMDG: International maritime dangerous goods.

IATA: International air transport association.

UVCB: Substances of unknown or variable composition, complex reaction products or biological materials.

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Revision: 03-11-2014

The information contained in this Safety Data Sheet is based on the present state of knowledge and current national legislation.

It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.

The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions.

As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.

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.