

1. Identification of the substance/mixture and of the company/undertaking

- Product identifier
- Trade name: TOPGUM TL-T70
- Article number: H0257-K

Productname: **HI-TRI**

Designation: **Trichlorethylen (Thrichlorethen)**

CAS number: 79-01-6

EG number: 201-167-4

REACH - Registration number: **01-2119490731-36-0000, 01-2119490731-36-0004**

Relevant identified uses of the substance or mixture and uses advised against

- **No further relevant information available.**
- **Application of the substance / the preparation Adhesives**
- **Details of the supplier of the safety data sheet**

Supplier:

NILOS GmbH & Co. KG • Reisholzstr. 15 • 40721 Hilden • Germany

Phone: +49 2103 951 - 0

Fax: +49 2103 951 - 199

Emergency telephone number: +49 173 5306827

2. Hazards identification

Classification according to Regulation (EC) No 1272/2008



GHS08 health hazard

Muta. 2

Carc. 1B

H341 Suspected of causing genetic defects.

H350 May cause cancer.



GHS07

Skin Irrit. 2

Skin Sens. 1

Eye Irrit. 2

STOT SE 3

H302+H312+H332 Harmful if swallowed, in contact with skin, if inhaled.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H 319: Provoke strong irritation of eyes.

H336 May cause drowsiness or dizziness.

H412: Harmful to aquatic life with long lasting effects.

- **Labelling according to Regulation (EC) No 1272/2008**

The substance is classified and labelled according to the CLP regulation.

- **Hazard pictograms:**



GHS07



GHS09

- **Signal word:** Danger

3. Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Adhesive, Polychloroprene; Organic solvents

Dangerous components		
CAS: 79-01-6 EINECS: 201-167-4	trichloroethylene T Carc. Cat. 2 R45; Xi R36/38; R52/53-67, Muta. Cat. 3	50 - 100 %
	Muta. 2, H341; Carc. 1B, H350; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H336; Aquatic Chronic 3, H412	
CAS: 1314-13-2 EINECS: 215-222-5	zinc oxide; N R50/53	1 - 5 %
	Aquatic Acute 1, H400; Aquatic Chronic 1, H410	
CAS: 8050-09-7 EINECS: 232-475-7	Rosin; Xi R43	1 - 5 %
	Skin Sens. 1, H317	
SVHC		
79-01-6	trichloroethylene	

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

4. First aid measures

- **Description of first aid measures**
- **After inhalation** Supply fresh air and call for doctor for safety reasons.
- **After skin contact** Instantly wash with water and soap and rinse thoroughly.
- **After eye contact** Rinse opened eye for several minutes under running water. Then consult doctor.
- **After swallowing** Instantly call for doctor.
- **Information for doctor**
- **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5. Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents**
CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** Do not inhale explosion gases or combustion gases.



6. Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
 Wear protective equipment. Keep unprotected persons away.
 Use breathing protection against the effects of fumes/dust/aerosol.
 Wear protective clothing.
- **Environmental precautions:**
 Do not allow to enter drainage system, surface or ground water.
 Inform respective authorities in case product reaches water or sewage system.
- **Methods and material for containment and cleaning up:**
 Ensure adequate ventilation.
 Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
 Dispose of contaminated material as waste according to item 13.
- **Reference to other sections**
 See Section 8 for information on personal protection equipment.

7. Handling and storage

- **Handling**
- **Precautions for safe handling**
 Keep containers tightly sealed.
 Ensure good ventilation/exhaustion at the workplace.
 Open and handle container with care.
- **Information about protection against explosions and fires:** Keep breathing equipment ready.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** No special requirements.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Specific end use(s)** No further relevant information available.

8.1 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**

Components with limit values that require monitoring at the workplace:	
79-01-6 trichloroethylene	
WEL	Short-term value: 820 mg/m ³ , 150 ppm Long-term value: 550 mg/m ³ , 100 ppm Carc; Sk
8050-09-7 Rosin	
WEL	Short-term value: 0.15 mg/m ³ Long-term value: 0.05 mg/m ³ Sen

8.2 Exposure controls/personal protection

- **Additional information:** The lists that were valid during the compilation were used as basis.
- **Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**
The usual precautionary measures should be adhered to general rules for handling chemicals.
Keep away from foodstuffs, beverages and food.
Take off immediately all contaminated clothing
Wash hands during breaks and at the end of the work.
Store protective clothing separately.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.
- **Breathing equipment: Use breathing protection in case of insufficient ventilation.**
- **Protection of hands:** Protective gloves. Solvent resistant gloves.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**
PVA 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.
- **As protection from splashes gloves made of the following materials are suitable:** Nitrile rubber, NBR
- **Not suitable are gloves made of the following materials:** PVC gloves
- **Eye protection:** Tightly sealed safety glasses.
- **Body protection:** Protective work clothing.

9. Physical and chemical properties

Information on basic physical and chemical properties

- **General Information**
- **Appearance:**

Form:	Fluid
Colour:	black
Odour:	Characteristic
Change in condition Melting point/Melting range: Boiling point/Boiling range:	Not determined > 80°C
Flash point:	Not applicable
Self-inflammability:	Product is not selfigniting.
Danger of explosion:	Product is not explosive.
Density at 20°C:	1,420 ± 0,010 g/cm ³
Solubility in / Miscibility with Water:	Not miscible or difficult to mix
Viscosity: dynamic at 20°C:	ca. 2500 mPas (Brookfield)
Solvent content: Organic solvents:	ca. 85 %
Solids content: Other information	Ca. 15 % No further relevant information available.

10. Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** With appropriate storage conditions and handling: none.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:**
Possible in traces.
Carbon monoxide and carbon dioxide

11. Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

LD/LC50 values that are relevant for classification:

79-01-6 trichloroethylene

Oral	LD50	4920 mg/kg (rat)
	LDLo	7000 mg/kg (Human)
Dermal	LD50	> 29000 mg/kg (rabbit)
Inhalative	LC50/4h	12500 mg/kg (rat)

1314-13-2 zinc oxide

Oral	LD50	> 5000 mg/kg (rat)
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- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritant effect.
- **Sensitization:** Sensitization possible by skin contact.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:
Irritant
Carcinogenic

12.1 Ecological information

Toxicity

Aquatic toxicity:

79-01-6 trichloroethylene

EC50/48h	18 mg/l (Daphnia magna)
IC50/96h	175 mg/l (Selenastrum capricornutum)
LC50/96h	41 mg/l (Pimephales promelas)

1314-13-2 zinc oxide

EC50/48h	2,2 mg/l (Daphnia magna)
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Persistence and degradability

79-01-6 trichloroethylene

Bio.Abbaubark./28 d	19 % (-)
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12.2 Ecological information

- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Toxic for fish
- **Additional ecological information:**
- **General notes:**
Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms
Water danger class 3 (German Regulation) (Self-assessment): extremely hazardous for water.
Do not allow product to reach ground water, water bodies or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into soil.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13. Information on disposal

Allow waste of solvents to dry out completely. Send to disposal together with waste rubber. Collect remains of solvents and sent it to a disposal company handling special forms of waste. Empty containers: allow it to dry out completely and scrap them while still open. EAK refuse disposal key reference: 080405

14. Details for transport

Land transport ADR/RID und GGVE:

ADR/RID class: 6.1
Hazard label: 6.1
Packing group: III
UN-No.: 1710
Description of the hazardous goods: Toxic liquid, organic, n.o.s., (Trichloroethylene mixture)

Sea transport IMDG/GGVSea:

IMDG/GGV sea class: 6.1
Hazard label: 6.1
UN-No.: 1710
Packing group: III
EMS-No.: F-A, S-A
Marine pollutant: no
Correct technical name: Toxic liquid, organic, n.o.s., (Trichloroethylene mixture)

Air transport ICAO/IATA:

ICAO/IATA-class: 6.1
Hazard label: 6.1
UN/ID-No: 1710
Packing group: III
Correct technical name: Toxic liquid, organic, n.o.s., (Trichloroethylene mixture)

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- National regulations
- Technical instructions (air):
 - Class: III
 - Share in %: 50-100
- Water hazard class: Water danger class 3 (Self-assessment): extremely hazardous for water.
- VOC (EU) % 82,36 %
- Code MAL 5-6
- VOC (EU) 1169,5 g/l
- Other regulations, limitations and prohibitive regulations

Substances of very high concern (SVHC) according to REACH, Article 57

79-01-6 trichloroethylene

- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. Other details

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Danger instructions:

H302+H312+H332	Harmful if swallowed, in contact with skin, if inhaled.
H315	Skin irritation possible.
H317	May cause an allergic skin reaction.
H319	Provoke strong irritation of eyes.
H336	Can bring sleepiness and numbness.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H412	Harmful to aquatic life with long lasting effects.

- Safety instructions:

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P273	Avoid release to the environment.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P391	Collect spillage.
P405	Store locked up.

This product is intended for commercial use only. The details given here are based on current knowledge and experiences. This safety data sheet describes products in terms of their safety requirements. The details are in no way intended to imply a warranty of performance of capabilities.

Abbreviations and acronyms:

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 Harmonized System of Classification and Labelling of Chemicals
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent