



SAFETY DATA SHEET

[In accordance with the criteria of Regulation No 1907/2006 (REACH) and 453/2010]

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: **TOPNIK LUTOWNICZY TE 410**

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

Relevant identified uses: product for soft soldering manual and automatic.

Uses advised against: not determined.

1.3 Details of the supplier of the safety data sheet

Supplier: **Cynel Unipress Sp z o.o.**

Address: ul. Białołęcka 231B, 03-253 Warszawa, Poland

Telephone/Fax number: +48 22 519 29 48/ 22 519 29 46

E-mail address for a competent person responsible for sds: biuro@theta-doradztwo.pl

1.4 Emergency telephone number

112

Section 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Directive 1999/45/EC

F R11; Xi R36; R67

Highly flammable. Irritating to eyes. Vapours may cause drowsiness and dizziness.

Classification according to Regulation 1272/2008/EC

Flam. Liq. 2 H225; Eye Irrit. 2 H319; STOT SE 3 H336

Highly flammable liquid and vapour. Causes serious eye irritation. May cause drowsiness or dizziness.

2.2 Label elements

Hazard pictograms and signal words



DANGER

Product identifier

Contains propan-2-ol.

Hazard statements

H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.

Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking. P261 Avoid breathing vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P403+P235 Store in a well-ventilated place. Keep cool. 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.

2.3 Other hazards

No information whether the mixture meets criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation. Suitable researches were not conducted.



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Section 3: Composition/information on ingredients

3.1 Substances

Not applicable.

3.2 Mixtures

propan-2-ol

Range of percentages:	70-95%
CAS number:	67-63-0
EC number:	200-661-7
Index number:	603-117-00-0
Registration number:	01-2119457558-25-XXXX
Classification acc. to 67/548/EEC:	F R11; Xi R36; R67
Classification acc. to 1272/2008/WE:	Flam. Liq. 2 H225; Eye Irrit. 2 H319; STOT SE 3 H336

adipic acid

Range of percentages:	0,5-10%
CAS number:	124-04-9
EC number:	204-673-3
Index number:	607-144-00-9
Registration number:	substance comes under the law of temporary period
Classification acc. to 67/548/EEC:	Xi R36
Classification acc. to 1272/2008/WE:	Eye Irrit. 2 H319

Full text of each relevant R and H phrases is given in section 16 of SDS.

Section 4: First aid measures

4.1 Description of first aid measures

Skin contact: take off contaminated clothes. Wash out skin with plenty of water with soap. Consult a doctor, if symptoms persist.

Eye contact: wash out with plenty of water with the eyelid hold wide open, for 10-15 min. Remove any contact lenses. Avoid powerful water stream – risk of cornea damage. Obtain medical attention.

Ingestion: rinse mouth with water; give plenty of water to drink. Do not give anything to drink to an unconscious person. Consult a doctor – show the container or label.

Inhalation: remove to fresh air, keep warm and calm. In case of some symptoms consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed

Eye contact: irritation, redness, tearing.

Skin contact: local irritation, redness.

Inhalation of vapours: may cause irritation of respiratory tract, drowsiness, dizziness.

Ingestion: nausea, vomiting, stomach pain.

4.3 Indication of any immediate medical attention and special treatment needed

Physician makes a decision regarding further medical treatment after thoroughly examination of the injured.

Section 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: extinguishing powder, carbon dioxide (CO₂), alcohol-resistant foam, water spray. Use extinguishing measures that are appropriate to the environment.

Unsuitable extinguishing media: water jet – risk of the propagation of the flame.

5.2 Special hazards arising from the substance or mixture

May produce harmful fumes and gases of carbon oxides if burning. Do not inhale combustion products – it can be dangerous for health.



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5.3 Advice for firefighters

Wear personal protection typical in case of fire. Self-contained breathing apparatus and protective clothing should be worn. Highly flammable product. Vapours may form explosive mixtures with air. Heated containers can explode. Cool down containers with water to minimize the risk of rupture. Collect extinguishing water.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Limit the access for the outsiders into the breakdown area, until the suitable cleaning operations are completed. For large spills, isolate area. Ensure that the consequences of failure remove only trained personnel. Wear adequate personal protective equipment. Avoid skin and eyes contamination. Ensure adequate ventilation. Remove all ignition sources, do not smoke, do not use sparking tools, etc.

6.2 Environmental precautions

In case of release of large amounts of the product, it is necessary to take appropriate steps to prevent it from spreading into the environment. Notify relevant emergency services.

6.3 Methods and material for containment and cleaning up

Small spillage cover with absorbent. Large spillage cover with incombustible sorbent (sand, earth, diatomaceous soil) and collect to labeled containers. Use non-sparking tools. Forward the collected product to an authorized waste recipient. Clean and ventilate contaminated place.

6.4 Reference to other sections

Appropriate conduct with waste product—section 13. Appropriate personal protective equipment—sec. 8.

Section 7: Handling and storage

7.1 Precautions for safe handling

Handle in accordance with good occupational hygiene and safety practices. Ensure good ventilation. Do not inhale vapours. Avoid skin and eyes contamination. Keep not used containers tightly closed. Before break and after work wash carefully hands. Remove all ignition sources, do not smoke. Prevent electrostatic discharges. Do not use sparking tools.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original, tightly closed containers in a dry and well-ventilated place. Keep away from food and beverages. Store far from strong oxidizing agents, acids and bases. Recommended material for containers: polyethylene. Keep away from ignition sources.

7.3 Specific end use(s)

Product for soft soldering manual and automatic.

Section 8: Exposure controls/personal protection

8.1 Control parameters*

Specification	TLV-TWA	TLV-STEL	TLV-C	BLV
propan-2-ol [CAS 67-63-0]	900 mg/m ³	1200 mg/m ³	—	—
adipic acid [CAS 124-04-9]**	5 mg/m ³	10 mg/m ³	—	—

* Legal basis: Diary Set 2002, Nr 217, pos. 1833 with subs. changes (data for Poland)

** due to the liquid form of the product, the component does not require the control of exposure limits.

Product doesn't contain any components with occupational exposure limit values at working place in Community.

Please check also any national occupational exposure limit values for components in your country.

8.2. Exposure controls

Use the product in accordance with good occupational hygiene and safety practices. Provide local ventilation for every workplace (during soldering processes). When handlings do not eat, drink or smoke. Before break and after work carefully wash hands. Avoid contact with skin and eyes. Ensure a shower and a post for rinsing eyes.



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Hand and body protection

Wear protective gloves and protective clothing. During soldering wear protective clothing that can prevent injuries associated with high temperature of molten solder.

The material that the gloves are made of must be impenetrable and resistant to the product's effects. The selection of material must be performed with consideration of breakthrough time, penetration speed and degradation. Moreover, the selection of proper gloves depends not only on the material, but also on other quality features and changes depending on the manufacturer. The producer should provide detailed information regarding the exact breakthrough time. This information should be followed.

Eye protection

Use safety glasses.

Respiratory protection

Under normal operating conditions is not required. In case of high vapour concentrations, exceeding the limit value or failure, wear a mask with vapours absorber.

Personal protective equipment must meet requirements of directive 89/686/CE. Employer is obliged to ensure equipment adequate to activities carried out, with quality demands, cleaning and maintenance.

Environmental exposure controls

Prevent direct runoff into drains/surface water. Do not contaminate surface water and drainage ditches with chemicals or used containers. Spilled product or uncontrolled spills should be reported to the appropriate authorities in accordance with national and local regulations. Dispose of as chemical waste, accordance with national and local regulations.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

physical state:	liquid
colour:	colourless
odour:	characteristic, alcoholic
odour threshold:	not determined
pH:	not determined
melting point/freezing point:	not determined
initial boiling point and boiling range:	82°C
flash point:	16°C
evaporation rate:	not determined
flammability (solid, gas):	not applicable
upper/lower flammability or explosive limits:	not determined
vapour pressure:	not determined
relative vapour density:	not determined
density (20°C):	0,806 g/cm ³
solubility(ies):	soluble in water, alcohols, butyl acetate
partition coefficient: n-octanol/water:	not determined
auto-ignition temperature:	not determined
decomposition temperature:	not determined
explosive properties:	not determined
oxidising properties:	not display
viscosity:	not determined

9.2 Other information

None.

Section 10: Stability and reactivity

10.1 Reactivity

Product is reactive. Does not go under hazardous polymerization. See also subsection 10.3-10.5.

10.2 Chemical stability

The product is stable under normal conditions.

10.3 Possibility of hazardous reactions

Vapours may form explosive mixtures with air.



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10.4 Conditions to avoid

Ignition sources, open flame, excessive heating.

10.5 Incompatible materials

Strong oxidising agents, flammable materials, acids, bases.

10.6 Hazardous decomposition products

None.

Section 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity of components

propan-2-ol [CAS 67-63-0]

LC ₅₀ (inhalation, rat):	30 mg/l/4h
LD ₅₀ (oral, rat):	5 045 mg/kg
LD ₅₀ (skin, rabbit):	12 800 mg/kg

Toxicity of mixture

Acute toxicity

Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

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

Based on available data, the classification criteria are not met.

STOT-single exposure

May cause drowsiness or dizziness.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Section 12: Ecological information

12.1 Toxicity

Product is not classified as dangerous for the environment.

12.2 Persistence and degradability

Mixture is readily biodegradable.

12.3 Bioaccumulative potential

Does not accumulate.

12.4 Mobility in soil

Product is mobile in the soil, dissolves in water and spread in the aquatic environment.

12.5 Results of PBT and vPvB assessment

No data.

12.6 Other adverse effects

This product has no influence on the global warming or the ozone layer depletion.

Section 13: Disposal considerations

13.1 Waste treatment methods

Disposal methods for the product: disposal in accordance with the local legislation. Do not remove with household garbage. Store remaining in original containers. Recommended incineration of waste product disposal at authorized facilities.

Disposal methods for used packing: recovery / recycling / elimination of packaging waste carried out in accordance with applicable regulations. Only completely emptied packaging can be recycled.

Legal basis: Directive 2008/98/EC, 94/62/EC.

Section 14: Transport information

14.1 UN number

1993

14.2 UN proper shipping name

FLAMMABLE LIQUID, N.O.S. [propan-2-ol]



14.3 Transport hazard class(es)

3

14.4 Packing group

II

14.5 Environmental hazards

The mixture is not classified as dangerous for the environment in accordance with the criteria set out in the transport rules.

14.6 Special precautions for user

Wear adequate personal protective equipment. Remove any ignition sources. See section 8.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

Section 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 of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Council Directive 67/548/EEC of 27 June 1967 on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labeling of dangerous substances.

Directive 1999/45/EC of the European Parliament and of the Council of 31 May 1999 concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations.

Commission Regulation (EC) No 790/2009 of 10 August 2009 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures.

Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives.



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European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste.

15.2 Chemical safety assessment

There is a Chemical Safety Assessment (CSA) completed for one substance contained in mixture.

Section 16: Other information

Full text of indicated R and H phrases mentioned in section 3

R11	Highly flammable.
R36	Irritating to eyes.
R67	Vapours may cause drowsiness and dizziness.
H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

Trainings

Before commencing working with the product, the user should learn the Health & Safety regulations, regarding handling chemicals, and in particular, undergo a proper workplace training. People associated with transport of hazardous materials in accordance with ADR should be adequately trained for their job responsibilities (general training, bench and safety).

Clarification of aberrations and acronyms

Flam. Liq. 2	Flammable liquid category 2
Eye Irrit. 2	Eye irritation category 2
STOT SE 3	Specific Target Organ Toxicity – single exposure, category 3
TLV-TWA	Time Weighted Average
TLV-STEL	Short-term exposure limit
TLV-C	Ceiling
BLV	Permissible concentration in biological medium
PBT	Persistent, Bioaccumulative and Toxic substance
vPvB	very Persistent, very Bioaccumulative substance

Other data

Date of issue:	15.11.2013
Version:	1.0/EN
Composed by:	Joanna Puchalska-Gad (on the basis of producer's data).
Safety Data Sheet made by:	„ THETA ” Doradztwo Techniczne

The information above is based on a current available data concerning the product, but also on the experience and knowledge in this field of the producer. They are neither a quality description of the product nor a guarantee of particular features. They are to be treated as aid to safety in transport, storage and usage of the product. That does not free the user from the responsibility of improper usage of the information above and also of improper compliance with the law norms in the field.