### Zentrum für Löt- und Entlötsysteme



EDSYN GMBH EUROPA, Postfach 1169, D-97888 Kreuzwertheim

29. September 2017

### Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Trade	e name: PUK 10	Soldering Tip Cleaner
1.)	IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING	
1.1.)	Product identifier	
	Trade name:	Soldering Tip Cleaner
	Registration number (REACH):	not relevant (mixture)
	CAS number:	not relevant (mixture)
1.2.)	Relevant identified uses of the substance or mixture and uses advised against	
	Relevant identified uses:	Cleaner agent / Cleaner
1.3.)	Details of the supplier of the safety data sheet	
	Manufacturer/Supplier: Address:	EDSYN GMBH EUROPA Finkenweg 2 D 97892 Kreuzwertheim Fax: 09342 - 6413 Fax: 09342 - 6417 e-Mail: Edsyn-europa@t-online.de Website: www.edsyn-europa.de
1.4.)	Emergency telephone number	As above or next toxicological information centre.

#### 2.) HAZARD IDENTIFICATION

#### 2.1.) Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 (CLP):

Classification				
Section	Hazard class	Category	Hazard class and category	Hazard statement
3.3	serious eye damage/eye irritation	2	Eye Irrit.2	H319

for full text of abbreviations: see SECTION 16

#### 2.2.) Label elements

Labelling according to Regulation (EC) No. 1272/2008 (CLP):

Signal word: warning

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	Pictograms:	GHS07		
	Hazard statements:	H319	Causes serious eye irritation.	
	Precautionary statemens:	P280	Wear protective gloves/protective clothing/ eye protection/face protection.	
		P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
		P337+P313	If eye irritation persists: Get medical advice/ attention.	
2.3.)	Other hazard	There is no addition	nal information.	
	Results of PBT and vPvB assessment:	This mixture does not contain any substances that are assessed to b PBT or a vPvB		
3.)	COMPOSITION/INFORMATION ON INGREDIENTS			

### <u>INGREDIENTS</u>

3.1.) Substances: not relevant (mixture)

#### 3.2.) Mixtures

#### Description of the mixture

Hazardous ingredients acc. to GHS					
Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	
adipic acid	CAS-No. 124-04-9 EC-No. 204-673-3 Index-No. 607-144-00-9 REACH Reg.No. 01- 2116457561-38 xxxx	10-<25	Eye Irrit. 2 / H319	<b>!</b>	
glutaric acid	CAS-No. 110-94-1 EC-No. 203-817-2	10-<25	Eye Irrit. 2 / H319	<b>(</b>	
azelaic acid	CAS-No. 123-99-9 EC-No. 204-669-1	10-<25	Eye Irrit. 2 / H319	♦	
Itaconic acid	CAS-No. 97-65-4 EG-No. 202-599-6	5-<10	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 STOT SE 3 / H335	♦	
1,2,3- Benzotriazole	CAS-No. 95-14-7 EC-No. 202-394-1	1-<5	Acute Tox. 4 / H302	<b>(1)</b>	

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4.)	FIRST AID MEASURES	
4.1.)	Description of first aid measures	
	General notes	Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice.
	Following inhalation:	Provide fresh air. If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions.
	Following skin contact:	Wash with plenty of soap and water. After contact with the molten product, cool rapidly with cold water. Do not pull solidified product away from the skin.
	Following eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
	Following ingestion:	Rinse mouth. Do not induce vomiting. Get medical advice/attention if you feel unwell.
	Notes for the doctor:	none.
4.2.)	Most important symptoms and effects, both acute and delayed:	Causes eye irritation.
4.3.)	Indication of any immediate medical	
	attention and special treatment needed:	none.
5.)	FIREFIGHTING MEASURES	
5.1.)	Extinguishing media	: Section 10.
	Suitable extinguishing media:	water, foam, alcohol resistant foam, fire extinguishing powder.
	Unsuitable extinguishing media:	water jet
5.2.)	Special hazards arising from the substance or mixture:	Hazardous decompostion products: Section 10. Deposited combustible dust has considerable explosion potential.
	Hazardous combustion products:	nitrogen oxides (NOx), carbon monoxide (CO), carbon dioxide (CO2), pyrolysis products, toxic.
5.3.)	Advice for firefighters:	In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.
	Special protective equipment for firefighters:	self-contained breathing apparatus (EN 133)

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

For non-emergency personnel: Remove persons to safety. Ventilate affected area.

Avoid breathing dust. Control of dust.

Avoid contact with skin and eyes.

Keep away from sources of ignition - No smoking.

Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent

any contamination of skin, eyes and personal clothing.

For emergency responders: Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2.) Environmental precautions: Knock down dust with water spray.

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3.) Methods and material for containment and cleaning up

> Advices on how to contain a spill: take up mechanically.

Advices on how to clean up a spill: Collect spillage.

Other information relating to spills and

releases:

Place in appropriate containers for disposal.

Ventilate affected area.

6.4.) Reference to other sections: Hazardous combustion products: see section 5.

Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

#### 7.) **HANDLING AND STORAGE**

#### 7.1) Precautions for safe handling: Keep container tightly closed and in a well-ventilated place.

Measures to prevent fire as well as

aerosol and dust generation:

Use local and general ventilation. Keep away from sources of ignition – No

smoking. Removal of dust deposits.

Dust deposits may accumulate on all deposition surfaces in a technical Specific notes/details

room.

Handling of incompatible substances or

mixtures:

Do not mix with alkali. Do not mix with Oxidiser.

Measures to protect the environment: Avoid release to the environment.

Advice on general occupational hygiene: Do not eat, drink and smoke in work areas.

Wash hands after use.

Preventive skin protection (barrier creams/ointments) is recommended. Remove contaminated clothing and protective equipment before entering

eating areas.

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7.2.) Conditions for safe storage, including

any incompatibilities

Explosive atmospheres: Removal of dust deposits.

Flammability hazards: None.

Incompatible substances or mixtures: Incompatible materials: see section 10.

Protect against external exposure, such

as:

heat, humidity, UV-radiation/sunlight.

Consideration of other advice: Keep away from food, drink and animal feedingstuffs.

Ventilation requirements: Provision of sufficient ventilation.

Packaging compatibilities: Keep only in original container.

**7.3.)** Specific end use(s) No information available.

# 8.) EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1.) Control parameters

Coun try	Name of agent	Notation	Identifier	TWA (mg/m³)	Source
GB	dust	i	WEL	10	EH40/2005
GB	dust	r	WEL	4	EH40/2005

#### **Notation**

i inhalable frctionr respirable fraction

TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference

period of 8 hours time-weighted average

#### Relevant DNELs of components of the mixture Protection goal, Name of Threshold CAS-No. **Endpoint** route of Used in **Exposure time** substance level exposure chronic - local worker 124-04-9 **DNEL** 5 mg/m<sup>3</sup> human, inhalatory adipic acid (industry) effects chronic - systemic worker adipic acid 124-04-9 **DNEL** 264 mg/m<sup>3</sup> human, inhalatory (industry) effects worker chronic - systemic 124-04-9 **DNEL** 38 mg/kg human, dermal adipic acid (industry) effects

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Breakthrough times of the glove

Relevant PNECs of components of the mixture						
Name of substance	CAS-No.	Endpoint	Threshold level	Environmental compartment		
adipic acid	124-04-9	PNEC	0,126 <sup>mg</sup> / <sub>I</sub>	freshwater		
adipic acid	124-04-9	PNEC	0,0126 mg/ <sub>I</sub>	marine water		
adipic acid	124-04-9	PNEC	59,1 <sup>mg</sup> / <sub>l</sub>	sewage treatment plant (STP)		
adipic acid	124-04-9	PNEC	0,484 <sup>mg</sup> / <sub>kg</sub>	freshwater sediment		
adipic acid	124-04-9	PNEC	0,0484 <sup>mg</sup> / <sub>kg</sub>	marine sediment		
adipic acid	124-04-9	PNEC	0,46 <sup>mg</sup> / <sub>I</sub>	water		
adipic acid	124-04-9	PNEC	0,0228 <sup>mg</sup> /kg	soil		

8.2.) Exposure controls

Appropriate engineering controls:

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Hand protection:

	Material	Material thickness	Breakthrough times of the glove material				
	these information are not available	these information are not available	these information are not available				
		374. Check leak-tightness/im	Chemical protection gloves are suitable, which are tested according to EN 374.  Check leak-tightness/impermeability prior to use.  In the case of wanting to use the gloves again, clean them before taking				
	Respiratory protection:	In case of inadequate v filter device (EN 143).	In case of inadequate ventilation wear respiratory protection. Particulate filter device (EN 143).				
	Thermal hazards:	Wear protective clothing	Wear protective clothing for protection against heat and flame.				
	Environmental exposure controls:		Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.				
9.)	PHYSICAL AND CHEMICAL PROPERTIES						
9.1.)	Information on basic physical ar chemical properties	nd					
	<u>Appearance</u>	solid					

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Physical state solid matter green Colour characteristic

Odour: these information are not available

Odour thershold

Other safety parameters

these information are not available pH-(value):

-50 ℃

Melting point/ freezing point:
Initial boiling point and boiling range:
these information are not available not applicable

Flash point these information are not available

Evaporation rate: this material is combustible, but will not ignite readily Flammability (solid, gas):

Explosion limitis of dust clouds

these information are not available Vapour pressure: these information are not available Density: these information are not available Vapour density: these information are not available

Vapour density: these information are not available Relative density:

Solubility(ies) these information are not available

Water solubility:

Partition coefficient these information are not available

n-octanol/water (log KOW):

Auto-ignition temperature:

not relevant (solid matter)

these information are not available Relative self-ignition temperature for solids

these information are not available

Decomposition temperature:

Kinematic viscosity: not relevant (solid matter)
Dynamic viscosity: not relevant (solid matter)

Explosive properties: not explosive

Oxidising properties: shall not be classified as oxidising

**9.2.) Other information** none

**Viscosity** 

10.) STABILITY AND REACTIVITY

**10.1.) Reactivity** These information are not available.

**10.2.) Chemical stability**The material is stable under normal ambient and anticipated storage and

handling conditions of temperature and pressure.

**10.3.)** Possibility of hazardous reactions

The product in the delivered form is not dust explosion capable; the

enrichment of fine dust however leads to the danger of dust explosion.

**10.4.) Conditions to avoid** Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking. UV-radiation/ sunlight. Protect from moisture

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10.5.) Incompatible materials 10.6.) Hazardous decomposition products	bases, oxidisers, reducing agents  Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heading are not known.  Hazardous combustion products: see section 5.
<ul> <li>11.) TOXICOLOGICAL INFORMATION</li> <li>11.1.) Information on toxicological effects</li> <li>Classification procedure:</li> </ul>	If not otherwise specified the classification is based on: Ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP):

#### **Acute toxicity**

Acute toxicity estimate (ATE) of components of the mixture						
Name of substance	CAS-No.	Exposure route	ATE			
1,2,3-Benzotriazole	95-14-7	oral	560 <sup>mg</sup> / <sub>kg</sub>			

Acute toxicityof components of the mixture							
Name of substance	CAS-No.	Exposure route	Endpoint	Value	Species	Source	
adipic acid	124-04-9	oral	LD50	5.560 <sup>mg</sup> /kg	rat	ECHA	
adipic acid	124-04-9	inhalation: dust/mist	LC50	>7,7 <sup>mg</sup> /ı/4h	rat	ECHA	
azelaic acid	123-99-9	oral	LD50	>4.000 <sup>mg</sup> / <sub>kg</sub>	rat	Hersteller	
azelaic acid	123-99-9	dermal	LD50	>10.000 <sup>mg</sup> / <sub>kg</sub>	rat	Hersteller	
1,2,3- Benzotriazole	95-14-7	oral	LD50	560 <sup>mg</sup> / <sub>kg</sub>	rat	Hersteller	
1,2,3- Benzotriazole	95-14-7	dermal	LD50	>2.000 <sup>mg</sup> / <sub>kg</sub>	rabbit	Hersteller	

Skin corrosion/ irritation

Classification could not be established because:
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Serious eye damage/ eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

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**Skin sensitisation** Classification could not be established because:

Data are lacking, inconclusive or conclusive but not sufficient for

classification.

**Respiratory sensitisation** Classification could not be established because:

Data are lacking, inconclusive or conclusive but not sufficient for

classification

**Germ cell mutagenicity:** Classification could not be established because:

Data are lacking, inconclusive or conclusive but not sufficient for

classification.

Carcinogenicity Classification could not be established because:

Data are lacking, inconclusive or conclusive but not sufficient for

classification

**Reproductive toxicity** Classification could not be established because:

Data are lacking, inconclusive or conclusive but not sufficient for

classification

Specific target organ toxicity - single

exposure

Classification could not be established because:

Data are lacking, inconclusive or conclusive but not sufficient for

classification.

Specific target organ toxicity -

repeated exposure

Classification could not be established because:

Data are lacking, inconclusive or conclusive but not sufficient for

classification.

Aspiration hazard Shall not be classified as presenting an aspiration hazard.

#### 12.) ECOLOGICAL INFORMATION

#### 12.1.) Toxicity

Aquatic toxicity (acute)

Test data are not available for the complete mixture.

#### Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS-No.	Endpoint	Value	Species	Method	Source	Expos- ure time
adipic acid	124-04-9	LC50	46 <sup>mg</sup> /ı	daphnia magna	OECD Guideline 202	ECHA	48 h
adipic acid	124-04-9	ErC50	59 <sup>mg</sup> /ı	algae (pseudokirch- neriella subcap- itata)	OECD Guideline 201	ECHA	72 h
azelaic acid	123-99-9	EC50	>85,5 <sup>mg</sup> /ı	daphnia		Hersteller	48 h
1,2,3-Benzo- triazole	95-14-7	EC50	91 <sup>mg</sup> / <sub>I</sub>	daphnia magna		Hersteller	48 h
1,2,3-Benzo- triazole	95-14-7	LC50	>100 <sup>mg</sup> / <sub>I</sub>	zebra fish (Danio rerio)		Hersteller	96 h

Aquatic toxicity (chronic)

Test data are not available for the complete mixture.

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#### Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS-No.	Endpoint	Value	Species	Method	Source	Expos- ure- time
adipic acid	124-04-9	NOEC	6,3 <sup>mg</sup> / <sub>I</sub>	daphnia magna	OECD Guideline 211	ECHA	21 d
1,2,3-Benzo- triazole	95-14-7	NOEC	25,09 <sup>mg</sup> / <sub>l</sub>	daphnia		Hersteller	21 d

#### 12.2.) Persistence and degradability

#### Degradability of components of the mixture

Name of substance	CAS-No.	Process	Degrada- tion rate	Time	Method	Source
adipic acid	124-04-9	DOC removal	>90 %	5 d	EU method C.9	ECHA
adipic acid	124-04-9	oxygen depletion	83 %	30 d	OECD Guideline 301 D	ECHA

**Biodegradation** Data are not available.

Persistence: Data are not available.

**12.3.) Bioaccumulative potential** Data are not available.

### Bioaccumulative potential of components of the mixture

Name of substance	CAS-No.	BCF	Log KOW
adipic acid	124-04-9	3,162	0,093 (pH value: 3,3, 25 ℃)
glutaric acid	110-94-1		-0,256

12.4.) Mobility in soil	Data are not available.
12.5.) Results of PBT and vPvB assessment	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
12.6.) Other adverse effects	Data are not available.
Endocrine disrupting potential	None of the ingredients are listed.
<u>Remarks</u>	None
13.) <u>DISPOSAL CONSIDERATIONS</u>	

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13.1.)	Waste treatment methods	This material and its container must be disposed of as hazardous waste
	Sewage disposal-relevant information	Do not empty into drains.
	Waste treatment of containers/ packagings	Handle contaminated packages in the same way as the sustance itself.
	Remarks	Please consider the relevant national or regional provisions
14.)	TRANSPORT INFORMATION	
14.1.)	UN-number	not subject to transport regulations.
14.2.)	UN proper shipping name	-
14.3.)	Transport hazard class(es)	
	Class	-
14.4)P	acking group	-
14.5.)	Environmental hazards	non-environmentally hazardous acc. to the dangerous goods regulations
14.6.)	Special precautions for user	There is no additional information.
	Transport in bulk according to Annex II of MARPOL and the IBC Code	The cargo is not intended to be carried in bulk.
	Information for each of the UN Model Regulations	
	Transport of dangerous goods by road, rail and inland waterway (ADR/RID/AND)	Not subject to ADR, RID and ADN.
	International Maritime Dangerous Goods Code (IMDG)	Not subject to IMDG.
	International Civil Aviation Oraganization (ICAO-IATA/DGR)	Not subject to ICAO-IATA.
15.)	REGULATORY INFORMATION	
-	Safety, health and environmental regulations/legislation specific for the substance or mixture	
	Relevant provisions of the European Union (EU)	
	List of substances subject to authorisation (REACH, Annex XIV)	none of the ingredients are listed
	Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) – Annex II	none of the ingredients are listed
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16 )	OTHER INFORMATION	
	Regulation 98/2013/EU on the marketing and use of explosives precursors	none of the ingredients are listed
	Directive 2000/60/EC establishing a framework for Community action in the field of water policy (WFD)	none of the ingredients are listed
	Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR):	none of the ingredients are listed

### 16.) OTHER INFORMATION

#### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
Acute Tox.	Acute toxicity
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
ATE	Acute Toxicity Estimate

#### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations	
BCF	Bioconcentration factor	
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)	
CLP	Regulation (EC) No 1272/2008 on classification labelling and packaging of substances and mixtures	
DGR	Dangerous Goods Regulations (see IATA/DGR)	
DNEL	Derived No-Effect Level	
EC No.	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)	

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EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/)	
EINECS	European Inventory of Existing Commercial Chemical Substances	
ELINCS	ELINCS European List of Notified Chemical Substances	
Eye Dam.	Seriously damaging to the eye	
Eye Irrit.	Irritant to the eye	
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations	
IATA	International Air Transport Association	
IATA/DGR	R Dangerous Goods Regulations (DGR) for the air transport (IATA)	
ICAO	International Civil Aviation Organization	
IMDG	International Maritime Dangerous Goods Code	
index-No.	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No. 1272/2008	
log KOW	n-Octanol/water	
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")	

#### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations	
NLP	No-Longer Polymer	
PBT	Persistent, Bioaccumulative and Toxic	
PNEC	Predicted No-Effect Concentration	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals	
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)	
Skin Corr.	Corrosive to skin	
Skin Irrit.	Irritant to skin	

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STOT SE	Specific target organ	n toxicity – single exposure
TWA	Time-weighted average	
vPvB	Very Persistent and	very Bioaccumulative
WEL	Workplace exposure limit	
Key literature of for data	references and sources	Regulation (EC) No. 1272/2008 on classification, labelling and packaging of substances and mixtures.  Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.  Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN).  International Maritime Dangerous Goods Code (IMDG).  Dangerous Goods Regulations (DGR) for the air transport (IATA)  Physical and chemical properties. Health hazards. Environmental hazards. The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

**Revision date:** 27.04.2017 / 09.05.2017

Revisions-No.:

#### **Disclaimer**

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.