

# Safety Data Sheet according to (EC) No 1907/2006 as amended

Page 1 of 11

SDS No.: 364251

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LOCTITE EDAG 965SS E&C known as ELECTRODAG 965 SS 1 KG

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

#### 1.1. Product identifier

LOCTITE EDAG 965SS E&C known as ELECTRODAG 965 SS 1 KG UFI: JRG0-TXDH-E204-1DAS

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

Intended use:

PTF ink

#### 1.3. Details of the supplier of the safety data sheet

Henkel AG & Co. KGaA

Henkelstr. 67

40589 Düsseldorf

Germany

Phone: +49 211 797 0

For Safety Data Sheet updates please visit our website www.mysds.henkel.com or www.henkel-adhesives.com.

# 1.4. Emergency telephone number

The Henkel information service also provides an around-the-clock telephone service on phone no.+49-(0)211-797-3350 for exceptional cases.

# **SECTION 2: Hazards identification**

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

# Classification (CLP):

Serious eye irritation H319 Causes serious eye irritation. Category 2

#### 2.2. Label elements

#### Label elements (CLP):

Hazard pictogram:



Signal word: Warning

**Hazard statement:** H319 Causes serious eye irritation.

SDS No.: 364251

**Precautionary statement:** 

P280 Wear eye protection/face protection.

**Prevention** 

# 2.3. Other hazards

None if used properly.

Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

Following substances are present in a concentration ≥ the concentration limit for depiction in Section 3 and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):

This mixture does not contain any substances in a concentration  $\geq$  the concentration limit for depiction in Section 3 that are assessed to be a PBT, vPvB or ED.

# **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

Declaration of the ingredients according to CLP (EC) No 1272/2008:

Hazardous components CAS-No. EC Number REACH-Reg No.	Concentration	Classification	Specific Conc. Limits, M- factors and ATEs	Add. Information
Carbinol acetate 112-15-2 203-940-1 01-2119966911-29	60- 80 %	Eye Irrit. 2, H319		

If no ATE values are displayed, please refer to LD/LC50 values in Section 11.

For full text of the H - statements and other abbreviations see section 16 "Other information".

# **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

Inhalation:

Move to fresh air, consult doctor if complaint persists.

Skin contact:

Immediately wash skin thoroughly with soap and water.

Eye contact:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

In case of adverse health effects seek medical advice.

Ingestion:

Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

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

EYE: Irritation, conjunctivitis.

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

See section: Description of first aid measures

SDS No.: 364251

# **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media

# Suitable extinguishing media:

Carbon dioxide, foam, powder

Water spray jet

#### Extinguishing media which must not be used for safety reasons:

Water jet (solvent-containing product).

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

Formation of toxic gases is possible during heating or in fires.

#### 5.3. Advice for firefighters

Wear self-contained breathing apparatus.

Wear protective equipment.

#### **Additional information:**

Cool endangered containers with water spray jet.

# **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes.

Danger of slipping on spilled product.

# 6.2. Environmental precautions

Do not empty into drains / surface water / ground water.

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

Remove with liquid-absorbing material (sand, peat, sawdust).

Dispose of contaminated material as waste according to Section 13.

# **6.4.** Reference to other sections

See advice in section 8

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Avoid skin and eye contact.

Ensure that workrooms are adequately ventilated.

See advice in section 8

Take measures to prevent the build-up of electrostatic charges.

#### Hygiene measures:

Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke while working.

# 7.2. Conditions for safe storage, including any incompatibilities

Ensure good ventilation/extraction.

Store between 5 and 30°C.

#### 7.3. Specific end use(s)

PTF ink

LOCTITE EDAG 965SS E&C known as ELECTRODAG 965 SS 1 KG

V002.11

SDS No.: 364251

# **SECTION 8: Exposure controls/personal protection**

# 8.1. Control parameters

# **Occupational Exposure Limits**

Valid for

Germany

ppm	mg/m <sup>3</sup>	Value type	Short term exposure limit category / Remarks	Regulatory list
	10	Exposure limit(s):	If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
	1,25	Exposure limit(s):	If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
		Short Term Exposure Classification:	Category II: substances with a resorptive effect.	TRGS 900
	10	Exposure limit(s):	2 If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
	1,25	Exposure limit(s):	If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
		Short Term Exposure	3 ,	TRGS 900
		1,25	Short Term Exposure Classification:  10 Exposure limit(s):  1,25 Exposure limit(s):	10   Exposure limit(s):   2   If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).   1,25   Exposure limit(s):   If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).   Category II: substances with a resorptive effect.   10   Exposure limit(s):   2   If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).   1,25   Exposure limit(s):   If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).   If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).   Short Term Exposure   Category II: substances with a

# **Predicted No-Effect Concentration (PNEC):**

Name on list	Environmental		Value				Remarks
	Compartment	period					
			mg/l	ppm	mg/kg	others	
2-(2-Ethoxyethoxy)ethyl acetate	aqua		0,11 mg/l				
112-15-2	(freshwater)						
2-(2-Ethoxyethoxy)ethyl acetate	aqua (marine		0,01 mg/l				
112-15-2	water)						
2-(2-Ethoxyethoxy)ethyl acetate	aqua		1,1 mg/l				
112-15-2	(intermittent						
	releases)						
2-(2-Ethoxyethoxy)ethyl acetate	Soil				0,0448		
112-15-2					mg/kg		
2-(2-Ethoxyethoxy)ethyl acetate	sediment				0,4748		
112-15-2	(freshwater)				mg/kg		
2-(2-Ethoxyethoxy)ethyl acetate	sediment				0,04748		
112-15-2	(marine water)				mg/kg		
2-(2-Ethoxyethoxy)ethyl acetate	sewage		10 mg/l				
112-15-2	treatment plant						
	(STP)						

LOCTITE EDAG 965SS E&C known as ELECTRODAG 965 SS 1 KG

Page 5 of 11

V002.11

SDS No.: 364251

#### **Derived No-Effect Level (DNEL):**

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
2-(2-Ethoxyethoxy)ethyl acetate 112-15-2	Workers	inhalation	Long term exposure - systemic effects		10,45 mg/m3	
2-(2-Ethoxyethoxy)ethyl acetate 112-15-2	Workers	dermal	Long term exposure - systemic effects		1,48 mg/kg	
2-(2-Ethoxyethoxy)ethyl acetate 112-15-2	General population	inhalation	Long term exposure - systemic effects		2,6 mg/m3	
2-(2-Ethoxyethoxy)ethyl acetate 112-15-2	General population	dermal	Long term exposure - systemic effects		0,75 mg/kg	
2-(2-Ethoxyethoxy)ethyl acetate 112-15-2	General population	oral	Long term exposure - systemic effects		0,75 mg/kg	

#### **Biological Exposure Indices:**

None

#### 8.2. Exposure controls:

#### Engineering controls:

Ensure good ventilation/suction at the workplace.

#### Respiratory protection:

In case of aerosol formation, we recommend wearing of appropriate respiratory protection equipment with ABEK P2 filter (EN 14387).

This recommendation should be matched to local conditions.

#### Hand protection:

Chemical-resistant protective gloves (EN 374). Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374): Isobutylene-isoprene rubber (IIR; >= 0.7 mm thickness) Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374): Isobutylene-isoprene rubber (IIR; >= 0.7 mm thickness) This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

# Eye protection:

Protective goggles

Protective eye equipment should conform to EN166.

# Skin protection:

Suitable protective clothing

Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

#### Advices to personal protection equipment:

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions. Personal protective equipment should conform to the relevant EN standard.

# **SECTION 9: Physical and chemical properties**

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

Delivery form liquid
Colour dark grey
Odor Solvent
Physical state liquid

Melting point Not applicable, Product is a liquid

SDS No.: 364251

Solidification temperature < 0 °C (< 32 °F)

Initial boiling point > 100 °C (> 212 °F)no method / method unknown

Flammability The product is not flammable.

Explosive limits Not applicable, The product is not flammable.

Flash point > 93 °C (> 199.4 °F) Auto-ignition temperature > 200 °C (> 392 °F)

Decomposition temperature

Not applicable, Forms explosive mixtures with air on intense

heating. Formation of peroxides possible. A range from app. 15

Kelvin below the flash point is to be rated as critical.

pH Not applicable, Product is non-soluble (in water).

Viscosity (kinematic) > 10.000 mm2/s

(20 °C (68 °F); )
Viscosity, dynamic 15.000 - 50.000 mPa.s no method / method unknown

(Brookfield; Instrument: RVT; 20 °C (68 °F);

speed of rotation: 20 min-1) Solubility (qualitative)

(20 °C (68 °F); Solvent: Water)
Partition coefficient: n-octanol/water

Vapour pressure (20 °C (68 °F))

(20 °C (68 °F)) Density (20 °C (68 °F))

Relative vapour density:

(20 °C)

Particle characteristics

Insoluble

Not applicable Mixture < 1 hPa

1,1 g/cm3 no method / method unknown

> 1

Not applicable Product is a liquid

#### 9.2. Other information

Other information not applicable for this product

# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

Reaction with strong oxidants.

#### 10.2. Chemical stability

Stable under recommended storage conditions.

#### 10.3. Possibility of hazardous reactions

See section reactivity

# 10.4. Conditions to avoid

No decomposition if stored and applied as directed.

#### 10.5. Incompatible materials

See section reactivity.

# 10.6. Hazardous decomposition products

None if used for intended purpose.

In case of fire toxic gases can be released.

SDS No.: 364251 V002.11

# **SECTION 11: Toxicological information**

# 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

# Acute oral toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Species	Method
Carbinol acetate	LD50	11.000 mg/kg	rat	not specified
112-15-2				

#### Acute dermal toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Species	Method
Carbinol acetate 112-15-2	LD50	15.281 mg/kg	rabbit	not specified

# Acute inhalative toxicity:

No data available.

#### Skin corrosion/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Carbinol acetate 112-15-2	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

# Serious eye damage/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Carbinol acetate 112-15-2	irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

# Respiratory or skin sensitization:

No data available.

# Germ cell mutagenicity:

No data available.

#### Carcinogenicity

No data available.

# Reproductive toxicity:

No data available.

SDS No.: 364251 V002.11

STOT-single exposure:
No data available.
STOT-repeated exposure:
No data available.
Aspiration hazard:
No data available.
11.2 Information on other hazards
not applicable
SECTION 12: Ecological information
General ecological information:
Do not empty into drains / surface water / ground water.

# 12.1. Toxicity

# **Toxicity (Fish):**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
	LC50	110 mg/l	96 h	Pimephales promelas	other guideline:
112-15-2					

# **Toxicity (aquatic invertebrates):**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Carbinol acetate 112-15-2	EC50	> 100 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute
					Immobilisation Test)

# Chronic toxicity (aquatic invertebrates):

No data available.

# Toxicity (Algae):

SDS No.: 364251

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Carbinol acetate	EC50	> 100 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga,
112-15-2				_	Growth Inhibition Test)

#### Toxicity (microorganisms):

No data available.

# 12.2. Persistence and degradability

The table below presents the data of the classified substances present in the mixture.

Hazardous substances	Result	Test type	Degradability	Exposure	Method
CAS-No.				time	
Carbinol acetate 112-15-2	readily biodegradable	aerobic	100 %	28 day	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))

#### 12.3. Bioaccumulative potential

No data available.

#### 12.4. Mobility in soil

No data available.

#### 12.5. Results of PBT and vPvB assessment

The table below presents the data of the classified substances present in the mixture.

Hazardous substances	PBT / vPvB	
CAS-No.		
Carbinol acetate	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very	
112-15-2	Bioaccumulative (vPvB) criteria.	

# 12.6. Endocrine disrupting properties

not applicable

#### 12.7. Other adverse effects

The product contains organic solvents which are insoluble in water. According to the requirements of the ATV regulations for the dis charge of wastewater from commercial and industrial plant, organic solvents which are immiscible with water can only be dis charged to an extent which corresponds to their solubility in water. The local discharge regulations take precedence.

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Product disposal:

In consultation with the responsible local authority, must be subjected to special treatment.

Waste code

080312

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

SDS No.: 364251

# **SECTION 14: Transport information**

#### 14.1. UN number or ID number

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.2. UN proper shipping name

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.3. Transport hazard class(es)

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.4. Packing group

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.5. Environmental hazards

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.6. Special precautions for user

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

# **SECTION 15: Regulatory information**

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

Ozone Depleting Substance (ODS) (Regulation (EC) No 1005/2009):

Prior Informed Consent (PIC) (Regulation (EU) No 649/2012):

Persistent organic pollutants (Regulation (EU) 2019/1021):

VOC content

Not applicable
Not applicable

(2010/75/EU)

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

National regulations/information (Germany):

WGK: WGK 1: slightly hazardous to water (Ordinance on facilities for handling

substances that are hazardous to water (AwSV) ) Classification according to AwSV, Annex 1 (5.2)

Storage class according to TRGS 510: 10

SDS No.: 364251

#### **SECTION 16: Other information**

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows: H319 Causes serious eye irritation.

ED: Substance identified as having endocrine disrupting properties

EU OEL: Substance with a Union workplace exposure limit
EU EXPLD 1: Substance listed in Annex I, Reg (EC) No. 2019/1148
EU EXPLD 2 Substance listed in Annex II, Reg (EC) No. 2019/1148
SVHC: Substance of very high concern (REACH Candidate List)
PBT: Substance fulfilling persistent, bioaccumulative and toxic criteria

PBT/vPvB: Substance fulfilling persistent, bioaccumulative and toxic plus very persistent and very

bioaccumulative criteria

vPvB: Substance fulfilling very persistent and very bioaccumulative criteria

#### **Further information:**

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