## 

Article No.: Print date Version		100VR1425 25.01.2018 4.1	Revision date 25.01.2018		EN Page 1 / 8		
SEC	TION 1: I	dentification of	the substance/mi	xture and of the co	ompany/undertaking		
1.1.	product	identifiers					
		o. (manufacturer/sintion of the substan	•• •	100VR1425			
1.2.	Relevan	t identified uses o	f the substance or	mixture and uses ac	lvised against		
	Relevan	Relevant identified uses:					
				Printing aid			
1.3.	Details o	of the supplier of t	he safety data shee	ət			
	A.M. Rar RUCO D Lorsbach	(manufacturer/im np & Co GmbH ruckfarben ner Str. 28 Eppstein	porter/downstream	<b>user/distributor)</b> Telephone: +49. Telefax: +49.61			
	Dept. responsible for information:						
	E-mail			info@ruco-inks.	com		
1.4.	Emergency telephone number Emergency telephone number Only available during office hours.		+49.61 98.30 40				
SEC	TION 2: I	Hazards identifi	cation				
2.1.	Classification of the substance or mixture						
	Classification according to Regulation (EC) No 1272/2008 [CLP]						
	The mixt	ure is classified as	hazardous accordin	g to regulation (EC) N	o 1272/2008 [CLP].		
	Skin Irrit.	q. 2 / H225 2 / H315 2 / H319	Flammable liqui skin corrosion/ir Serious eve dar		Highly flammable liquid and vapour. Causes skin irritation. Causes serious eve irritation		

Skin Irrit. 2 / H315	skin corrosion/irritation	Causes skin irritation.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Repr. 2 / H361	Reproductive toxicity	Suspected of damaging the unborn child.
STOT SE 3 / H335	Specific target organ toxicity (single exposure)	May cause respiratory irritation.
STOT SE 3 / H336	Specific target organ toxicity (single exposure)	May cause drowsiness or dizziness.
STOT RE 2 / H373	Specific target organ toxicity (repeated exposure)	May cause damage to organs through prolonged or repeated exposure.
Asp. Tox. 1 / H304	Aspiration hazard	May be fatal if swallowed and enters airways.

## 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms





## Hazard statements

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H361	Suspected of damaging the unborn child.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H304	May be fatal if swallowed and enters airways.
Due e e ette e e e	

## **Precautionary statements**

i iccuulionary state	i recationary statements					
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.					
P260	Do not breathe vapour.					
P280	Wear protective gloves and eye/face protection.					
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.					

## **RUCO**

	No.: ate n	100VR1425 25.01.2018 4.1	Revision date 25.01.2018	EN Page 2 / 8				
	P331 P370 + P37 P403 + P23	78 In d	NOT induce vomiting. case of fire, use sand, extinguishing powd re in a well-ventilated place. Keep contair					
	contains:		uene ene					
	Supplemer EUH208	Co	formation (EU) htains Phenol, 4,4'-(1-methylethylidene)bi rgic reaction.	ns Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane. May produce an				
3.	Other haza	irds						
ECT	FION 3: Co	mposition /	information on ingredients					
2.	Mixtures				*			
	Product de	escription / ch	emical characterization					
	Description	n So	vent containing resin solution					
	Hazardous	ingredients						
		-	to Regulation (EC) No 1272/2008 [CLP					
EC No. CAS No. INDEX No		RE Ch	ACH No. emical name ssification: // Remark		Wt %			
	203-625-9 108-88-3 601-021-00	01- Tol -3 Fla	2119471310-51-XXXX uene m. Liq. 2 H225 / Repr. 2 H361 / Asp. 1 n Irrit. 2 H315 / STOT SE 3 H336	ox. 1 H304 / STOT RE 2 H373 /	50 - 100 /			
	215-535-7 1330-20-7 601-022-00	01- Xyl 9-9 Fla H3	2119488216-32-XXXX ene m. Liq. 3 H226 / Acute Tox. 4 H312 / 15 / Eye Irrit. 2 H319 / Asp. Tox. 1 H3 3 H335					
	202-849-4 100-41-4 601-023-00	01- eth	2119489370-35-XXXX ylbenzene m. Liq. 2 H225 / Acute Tox. 4 H332 /	Asp. Tox. 1 H304 / STOT RE 2	5 - 10			
	500-033-5 25068-38-6 603-074-00	01- 5 Ph	2119456619-26-XXXX enol, 4,4'-(1-methylethylidene)bis-, polyme e Irrit. 2 H319 / Skin Irrit. 2 H315 / Skir		0,1 - 0,25			

## Additional information

Full text of classification: see section 16

## **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

#### **General information**

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

#### In case of inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

#### Following skin contact

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

### After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

#### After ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm.

## **RUCO**

Article No.: Print date	100VR1425 25.01.2018		
Version	4.1	Revision date 25.01.2018	Р

EN Page 3 / 8

Do NOT induce vomiting.

- 4.2. **Most important symptoms and effects, both acute and delayed** In all cases of doubt, or when symptoms persist, seek medical advice.
- 4.3. Indication of any immediate medical attention and special treatment needed

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

#### Suitable extinguishing media:

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

**Extinguishing media which must not be used for safety reasons:** strong water jet

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

Inhaling hazardous decomposing products can cause serious health damage.

## 5.3. Advice for firefighters

Provide a conveniently located respiratory protective device. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

## SECTION 6: Accidental release measures

## 6.1. Personal precautions, protective equipment and emergency procedures

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

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

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Clean using cleansing agents. Do not use solvents.

#### 6.4. Reference to other sections

Observe protective provisions (see chapter 7 and 8).

## SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

## Advices on safe handling

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Product may become electrostatically charged. Provide earthing of containers, equipment, pumps and ventilation facilities. Anti-static clothing including shoes are recommended. Floors must be electrically conductive. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

#### Precautions against fire and explosion:

Vapours are heavier than air. Vapours form explosive mixtures with air.

#### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (TRBS 2153)".

## Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers.

## Further information on storage conditions

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 5 °C and 35 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access

## **RUCO**

Article No.:	100VR1425	
Print date	25.01.2018	
Version	4.1	Revision date 25.01.2018

EN Page 4 / 8

only for authorised persons. Store carefully closed containers upright to prevent any leaks.

## 7.3. Specific end use(s)

Observe technical data sheet. Observe instructions for use.

## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

## Occupational exposure limit values Toluene INDEX No. 601-021-00-3 / EC No. 203-625-9 / CAS No. 108-88-3 TWA: 191 mg/m3; 50 ppm STEL: 574 mg/m3; 150 ppm Xylene INDEX No. 601-022-00-9 / EC No. 215-535-7 / CAS No. 1330-20-7 WEL, TWA: 220 mg/m3; 50 ppm WEL, STEL: 441 mg/m3; 100 ppm BMGV, TWA: 650 mmol/mol creatinine Remark: methyl hippuric acid; urine; end of exposure or end of shift ethylbenzene INDEX No. 601-023-00-4 / EC No. 202-849-4 / CAS No. 100-41-4 TWA: 441 mg/m3; 100 ppm STEL: 552 mg/m3; 125 ppm

Additional information

TWA : long-term occupational exposure limit value STEL : short-term occupational exposure limit value Ceiling : peak limitation

#### 8.2. Exposure controls

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

## **Occupational exposure controls**

### Respiratory protection

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). Use only respiratory protection equipment with CE-symbol including four digit test number.

#### Hand protection

For prolonged or repeated handling the following glove material must be used: NBR (Nitrile rubber)

Thickness of the glove material > 0,4 mm ; Breakthrough time (maximum wearing time) > 480 min.

Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles DIN EN 374

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

### Eye protection

Wear closely fitting protective glasses in case of splashes.

## **Protective clothing**

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

#### **Protective measures**

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

### Environmental exposure controls

Do not allow to enter into surface water or drains. See chapter 7. No additional measures necessary.

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

## 9.1. Information on basic physical and chemical properties

Appearance:	
Physical state:	liquid
Colour:	refer to label

## 

Article	No ·	100VR1425				
Print of	date	25.01.2018	Devision data 0	E 04 0040	EN	
Versio	on	4.1	Revision date 2	5.01.2018	Page 5 / 8	
	Odour:			characteristic		
	Odour thr	eshold:		not determined		
	pH at 20 °	C:		not applicable		
	Melting p	oint/freezing point:		not determined		
	Initial boil	ling point and boili	ng range:	111 °C		
	Flash poi	nt:		6 °C		
	Evaporati	on rate:		not determined		
		ility (solid, gas): time (s):		not applicable		
	Upper/low Lower ex	ver flammability or xplosion limit: xplosion limit:	explosive limits:			
	Vapour pr	ressure at 20 °C:		30 mbar		
	Vapour de	ensity:		not determined		
	Relative d Density a			0,87 g/cm³		
	Solubility Water so	(ies): Iubility (g/L) at 20 °	C:	insoluble		
	Partition of	coefficient: n-octar	nol/water:	see section 12		
	Ignition te	emperature in °C		430 °C		
	Decompo	sition temperature	:	not applicable		
	Viscosity	at 20 °C:		<b>11 s 4 mm</b> Method: DIN 53211		
	Explosive	properties:		not applicable		
	Oxidising	properties:		not applicable		
9.2.	Other info	ormation				
	Solid con	tent (%):		2,50 Wt %		
	solvent co Organic Water:	ontent: solvents:		98 Wt % 0 Wt %		
		eparation test (%):		< 3 Wt % (ADR/RID)		
SEC		Stability and read	+i\/i+\/			

## SECTION 10: Stability and reactivity

## 10.1. Reactivity

Not applicable.

#### 10.2. Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to chapter 7.

## 10.3. Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

## 10.4. Conditions to avoid

Hazardous decomposition byproducts may form with exposure to high temperatures.

### 10.5. Incompatible materials

Not applicable.

#### 10.6. Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

## **SECTION 11: Toxicological information**

Classification according to Regulation (EC) No 1272/2008 [CLP] No data on preparation itself available.

## **RUCO**

Article No.:	100VR1425	
Print date	25.01.2018	
Version	4.1	Revision date 25.01.2018

EN Page 6 / 8

#### 11.1. Information on toxicological effects

#### Acute toxicity

Toxicological data are not available.

skin corrosion/irritation; Serious eye damage/eye irritation

## Toxicological data are not available.

#### Respiratory or skin sensitisation

Toxicological data are not available.

#### Specific target organ toxicity

Toxicological data are not available.

#### Aspiration hazard

Toxicological data are not available.

#### Practical experience/human evidence

#### Other observations:

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

## **Overall Assessment on CMR properties**

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

## SECTION 12: Ecological information

#### overall evaluation

Classification according to Regulation (EC) No 1272/2008 [CLP] There is no information available on the preparation itself . Do not allow to enter into surface water or drains.

#### 12.1. Toxicity

Toxicological data are not available.

- 12.2. **Persistence and degradability** Toxicological data are not available.
- 12.3. Bioaccumulative potential

Toxicological data are not available.

12.4. **Mobility in soil** Toxicological data are not available.

## 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

## 12.6. Other adverse effects

## **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

### Appropriate disposal / Product

## Recommendation

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

## List of proposed waste codes/waste designations in accordance with EWC

080312 waste ink containing dangerous substances

## packaging

### Recommendation

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

## **SECTION 14: Transport information**

STOT RE 2 / H373

## **II RUCO**

Article Print da /ersio	date 25.01.2018		Revision date 25	rision date 25.01.2018 EN Page 7 / 8		
				UN 1210		
	Land tran Sea trans	er shipping name sport (ADR/RID): port (IMDG): ort (ICAO-TI / IAT		Printing ink PRINTING INK Printing ink		
4.3.	Transpor	t hazard class(e	s)			
				3		
4.4.	Packing	group		Ш		
4.5.	Environn	nental hazards				
		sport (ADR/RID)		not applicable		
	Marine po			not applicable		
4.6.	Special p	precautions for u	ser			
	Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage. Advices on safe handling: see parts 6 - 8					
	Further in	nformation				
	Land trar	nsport (ADR/RID)				
		striction code	, ,	D/E		
	Sea trans	sport (IMDG)				
	EmS-No.			F-E, S-D		
	Air trans	port (ICAO-TI / IA	TA-DGR)			
	Transpor not applic		ng to Annex II of Ma	arpol and the IBC Cod	e	
SEC1	<b>FION 15</b> :	Regulatory info	ormation			
				/legislation specific f	or the substance or mixture	
	EU legisl					
	Directive		ndustrial emissions 8			
	National regulations					
	Observe e		ctions under the Mate		ive (92/85/EEC) for expectant or nursing mothers. le work protection guideline' (94/33/EC).	
	Other reg	gulations, restric	tions and prohibitio	n regulations		
		I Safety Assessme safety assessme		this preparation were r	not carried out.	
ECT	<b>FION 16</b> :	Other informat	ion		*	
	Full text	of classification	in section 3:			
	Flam. Liq. Repr. 2 / I Asp. Tox.	H361 1 / H304	Flammable liquid Reproductive to: Aspiration hazar	xicity	Highly flammable liquid and vapour. Suspected of damaging the unborn child. May be fatal if swallowed and enters airways.	

	exposure)	organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
Skin Irrit. 2 / H315	skin corrosion/irritation	Causes skin irritation.
STOT SE 3 / H336	Specific target organ toxicity (single exposure)	May cause drowsiness or dizziness.
Flam. Liq. 3 / H226	Flammable liquids	Flammable liquid and vapour.
Acute Tox. 4 / H312	Acute toxicity (dermal)	Harmful in contact with skin.

May cause damage to organs (or state all

Specific target organ toxicity (repeated

# **RUCO**

Article No.: Print date Version	100VR1425 25.01.2018 4.1	Revision date 25.01.2018	EN Page 8 / 8
Acute Tox. 4 / H332		Acute toxicity (inhalative)	Harmful if inhaled.
Eye Irrit. 2 / H319		Serious eye damage/eye irritation	Causes serious eye irritation.
STOT SE 3 / H335		Specific target organ toxicity (single exposure)	May cause respiratory irritation.
Skin Sens. 1 / H317		Respiratory or skin sensitisation	May cause an allergic skin reaction.
Aquatic Chronic 2 / H411		Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.
Remark			
n.a. =	= not applicable		
Eurther	information		

Further information

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

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in chapter 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.

\* Data changed compared with the previous version