SERIE/SERIES Article No.: T25 Print date 18.08.2015 69999 EN Version Validity Date 18.08.2015 Page1/9 60 SECTION 1: Identification of the substance/mixture and of the company/undertaking **Product identifiers:** 1.1. Article No. (manufacturer/supplier): T25 Identification of the substance or mixture: SERIE/SERIES 1.2. Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses: Printing ink/ -lacquer 1.3. Details of the supplier of the safety data sheet supplier (manufacturer/importer/downstream user/distributor) A.M. Ramp & Co GmbH **RUCO** Druckfarben Telephone: +49.61 98.30 40 Lorsbacher Str. 28 Telefax: +49.61 98.3 22 88 D-65817 Eppstein Dept. responsible for information: E-mail info@ruco-inks.com 1.4. Emergency telephone number Emergency telephone number +49.61 98.30 40 Only available during office hours. **SECTION 2: Hazards identification** 2.1. Classification of the substance or mixture Classification according to Regulation (EC) No. 1272/2008 [CLP] This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP]. Flam. Liq. 3 / H226 flammable liquids Flammable liquid and vapour. STOT SE 3 / H335 Specific target organ toxicity (single May cause respiratory irritation. exposure) STOT SE 3 / H336 Specific target organ toxicity (single May cause drowsiness or dizziness. exposure) Aquatic Chronic 3 / H412 Harmful to aquatic life with long lasting effects. Hazardous to the aquatic environment Classification according to Directive 67/548/EEC or 1999/45/EC This mixture is classified as hazardous according to 1999/45/EC. R10 Flammable Xi; R37 Irritant Irritating to respiratory system. R52-53 Harmful to aquatic life. May cause long-term adverse effects in the aquatic environment. R66 Repeated exposure may cause skin dryness or cracking. R67 Vapours may cause drowsiness and dizziness. 2.2. Label elements Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms Warning **Hazard statements** H226 Flammable liquid and vapour. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness.

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52/53			tic organisms, may caus	e long-term adverse e	effects in the aqua	atic environment.
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259-370-	9 01-2	2119475116-39-XXXX		5 - 10
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202-849-	4 01-2	2119489370-35-XXXX		1 - 2,5
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203-628-	5 01-2	2119432722-45-XXXX		0,25 - 0,5
108-90-7	chlo	probenzene		
602-033-	00-1 R10) / Xn; R20 / N; R51-53		

Full text of R-phrases: see section 16. Full text of H-phrases: 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

Remove contaminated, saturated clothing immediately. 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. 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

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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. Treat runoff as hazardous.

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 chapter 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 chapter 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 (BGR 132)".

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 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:

EC No. CAS No.	Description	type	Limi STEL (EC) TV	t value VA (EC)	
202-849-4	ethylbenzene		552	441	mg/m3
100-41-4			125	100	ppm
203-628-5	chlorobenzene			234	mg/m3
108-90-7				50	ppm
215-535-7	xylene		441	220	mg/m3
1330-20-7		WEL	100	50	ppm

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215-535-7 1330-20-7	xylene		BMGV	650 mmol/mol creatinine

Additional information

TWA (EC): occupational exposure limit value

STEL (EC): short-term occupational exposure limit value

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: butyl 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

Recommendation 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	as labeled					
Odour	typical					
Safety relevant basis data			Unit	Method	Remark	
Flash point:		25	°C	DIN 53213		
Ignition temperature in °C:		200	°C			
Lower explosion limit		0,8	Vol-%			
Upper explosion limit		9,8	Vol-%			
Vapour pressure at 20 °C:		30,00	mbar			
Density at 20 °C:		1,07	g/cm³			
Water solubility (g/L)		not soluble				
pH at 20 °C:		-				
Viscosity at 20 °C		> 90 s 4 mm		DIN 53211		
Solvent separation test (%)		< 3	%	ADR/RID		
Solid content (%):		60,89	Wt %			
solvent content:						
Organic solvents:		38	Wt %			
Water:		1 '	Wt %			
Other information:						

SECTION 10: Stability and reactivity

10.1. Reactivity

9.2.

10.2. Chemical stability

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

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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

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

No data on preparation itself available.

11.1. Information on toxicological effects

Acute toxicity

Toxicological data are not available.

Irritant and corrosive effects

Toxicological data are not available.

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 preparation do not meet the criteria for classification as CMR category 1 or 2 according to 67/548/EEC.

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified according to the toxicological dangers. See chapters 2 and 15 for details.

SECTION 12: Ecological information

overall evaluation

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 assessment

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

12.6. Other adverse effects

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC

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	and is class	sified for eco-toxico	logical properties accordingly. See Section	s 2 and 15 for details.
	SECTION	13: Disposal co	nsiderations	
13.1		atment methods		
10.1.	Appropria Recomme Do not allo	te disposal / Prod ndation w to enter into sur		container must be disposed of in a safe way. Waste
	List of pro 080312		es/waste designations in accordance wit nk containing dangerous substances	h EWC
	packaging Recomme Non-contar	ndation	nay be recycled. Vessels not properly emp	tied are special waste.
	SECTION	14: Transport in	Iformation	
14.1.	UN numbe	r	1210	
142	UN proper	shipping name	1210	
14.2.	Land transp Sea transp	port (ADR/RID): ort (IMDG): rt (ICAO-TI / IATA-	Printing ink PRINTING INK DGR): Printing ink	
14.3.		hazard class(es) port (ADR/RID):	KEINE GÜTER DER KL	
	Sea transp for package	ort (IMDG) es < 30 litres:	in containers > 450 l: cl: 3 Transport in accordance IMDG Code.	e with the provisions of paragraph 2.3.2.5 of the
	Air transpo	rt (ICAO-TI / IATA-		
14.4.	Packing g	roup	111	
4.5.	Environme	ental hazards		
	Land trans	port (ADR/RID)	n.a.	
	Marine poll	utant	n.a.	
4.6.	Environme	ental hazards		
	case of an	always in closed, u accident or leakag safe handling: see	e.	persons transporting the product know what to do in
	Additional	information		
	Land trans	sport (ADR/RID)		
	tunnel resti	riction code	D/E	
	Sea transp	oort (IMDG)		
	EmS-No.	. ,	F-E, S-D	
14.7.	Special pr not applica	ecautions for use		
		15: Regulatory	information	
				4
15.1.	EU legisla	tion	ental regulations/legislation specific for	the substance or mixture

Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline). 405,652

411,058

National regulations	
VOC-value (in g/L) ASTM D 2369:	
VOC-value (in g/L) ISO 11890-2:	

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Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

Other regulations, restrictions and prohibition regulations

15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this preparation were not carried out.

SECTION 16: Other information

Relevant R-and H-phrases (Number and full text): Flam. Liq. 3 / H226 flammable liquids Flammable liquid and vapour. STOT SE 3 / H335 Specific target organ toxicity (single May cause respiratory irritation. exposure) Aquatic Chronic 2 / H411 Hazardous to the aquatic environment Toxic to aquatic life with long lasting effects. Asp. Tox. 1 / H304 Aspiration hazard May be fatal if swallowed and enters airways. STOT SE 3 / H336 Specific target organ toxicity (single May cause drowsiness or dizziness. exposure) Acute Tox, 4 / H312 Acute toxicity (dermal) Harmful in contact with skin. Acute Tox, 4 / H332 Acute toxicity (inhalative) Harmful if inhaled. Skin Irrit, 2 / H315 skin corrosion/irritation Causes skin irritation. Eve Irrit. 2 / H319 Serious eve damage/eve irritation Causes serious eve irritation. STOT RE 2 / H373 Specific target organ toxicity (repeated May cause damage to organs (or state all organs affected, if known) through prolonged or exposure) repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard). Flam. Lig. 2 / H225 flammable liquids Highly flammable liquid and vapour. Carc. 2 / H351 Carcinogenicity Suspected of causing cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard). Repr. 2 / H361 Reproductive toxicity Suspected of damaging the unborn child. Acute Tox. 3 / H331 Acute toxicity (inhalative) Toxic if inhaled. Acute Tox. 4 / H302 Acute toxicity (oral) Harmful if swallowed. STOT RE 1 / H372 Specific target organ toxicity (repeated Causes damage to organs (or state all organs affected, if known) through prolonged or exposure) repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard). F: R11 Highly flammable Highly flammable Xn; R20-48/20-65 Harmful Harmful by inhalation. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Harmful: may cause lung damage if swallowed. R10 Flammable Xn: R20 Harmful Harmful by inhalation. Dangerous for the environment Toxic to aquatic life. May cause long-term N: R51-53 adverse effects in the aquatic environment. Harmful: may cause lung damage if swallowed. R67 Vapours may cause drowsiness and dizziness. Harmful by inhalation and in contact with skin. Xn; R20/21-48/20-65 Harmful Harmful: danger of serious damage to health by prolonged exposure through inhalation. Harmful: may cause lung damage if swallowed. Irritating to eyes, respiratory system and skin. Xi; R36/37/38 Irritant Irritating to respiratory system. Xi; R37 Irritant Xn; R65 Harmful Harmful: may cause lung damage if swallowed. R66 Repeated exposure may cause skin dryness or cracking.

Additional information

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

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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.

remark

n.a. =

not applicable