SERIE/SERIES Article No . T28 Print date 18.05.2020 ΕN Page 1/9 Revision date 18.04.2020 Version 88 SECTION 1: Identification of the substance/mixture and of the company/undertaking **Product identifier** 1.1. Article No. (manufacturer/supplier): T28 Trade name/designation 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 Telephone: +49.61 98.30 40 **RUCO** Druckfarben 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** Classification of the substance or mixture 21 Classification according to Regulation (EC) No 1272/2008 [CLP] The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP]. Flam. Liq. 3 / H226 Flammable liquids Flammable liquid and vapour. Skin Sens. 1 / H317 Respiratory or skin sensitisation May cause an allergic skin reaction. STOT SE 3 / H336 Specific target organ toxicity (single May cause drowsiness or dizziness. exposure) Aquatic Chronic 3 / H412 Hazardous to the aquatic environment Harmful to aquatic life with long lasting effects. 2.2. Label elements Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms Warning **Hazard statements** H226 Flammable liquid and vapour. H317 May cause an allergic skin reaction. H336 May cause drowsiness or dizziness. Harmful to aquatic life with long lasting effects. H412 **Precautionary statements** P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P280 Wear protective gloves and eye/face protection. P370 + P378 In case of fire, use sand, extinguishing powder or alcohol resistant foam. P403 + P233 Store in a well-ventilated place. Keep container tightly closed. Hazard components for labelling Bis(4,4'-glycidyloxyphenyl)-propane 2-ethoxy-1-methylethyl acetate Supplemental Hazard information (EU) not applicable Other hazards 2.3.

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	No information available.				
EC.	TION 3: Co	mposition /	nformation on ingredients		
2.	Mixtures				
	Descriptio	n So	vent containing pigment dispersior	on resin basis	
	Hazardous	s ingredients			
		-	to Regulation (EC) No 1272/2008	3 [CLP]	
	EC No.		ACH No.	· ·	
	CAS No. INDEX No.		signation ssification: // Remark		Wt %
	259-370-9	01-	2119475116-39-XXXX		
54839-24-6 603-177-00-8			thoxy-1-methylethyl acetate n. Liq. 3 H226 / STOT SE 3 H33	6	20 - 25
	203-603-9	01-	2119475791-29-XXXX		
			ethoxy-1-methylethyl acetate		5 - 10
			DT SE 3 H336 / Flam. Liq. 3 H22	6	
216-823-5 01-2			2119456619-26-XXXX		
			(4,4'-glycidyloxyphenyl)-propane		3 - 5
	603-073-00		n Irrit. 2 H315 / Eye Irrit. 2 H319 411	/ Skin Sens. 1 H317 / Aquatic Chronic	
	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. 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** First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media

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.

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 section 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.

Further information

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 (TRGS 727)".

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

2-methoxy-1-methylethyl acetate

INDEX No. 607-195-00-7 / EC No. 203-603-9 / CAS No. 108-65-6

WEL, TWA: 274 mg/m3; 50 ppm WEL, STEL: 548 mg/m3; 100 ppm Remark: (may be absorbed through the skin)

Additional information

TWA : long-term occupational exposure limit value

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		rt-term occupationa ak limitation	l exposure limit value				
	DNEL:						
	INDEX No. DNEL Ion DNEL acu	g-term dermal (syst ute inhalative (syste	No. 259-370-9 / CAS No. 54839-24-6 emic), Workers: 103 mg/kg mic), Workers: 608 mg/m ³ ystemic), Workers: 302 mg/m ³				
	INDEX No. DNEL Ion	g-term dermal (syst	te No. 203-603-9 / CAS No. 108-65-6 emic), Workers: 796 mg/kg ystemic), Workers: 275 mg/m³				
	PNEC:						
	INDEX No. PNEC aqu PNEC aqu PNEC sec PNEC sec PNEC, so	methylethyl acetate 603-177-00-8 / EC uatic, freshwater: 1, uatic, marine water: diment, freshwater: diment, marine wate iil: 1,34 mg/kg wage treatment plar	No. 259-370-9 / CAS No. 54839-24-6 3 mg/l 0,13 mg/l 6,4 mg/kg rr: 0,64 mg/kg				
	INDEX No. PNEC aqu PNEC aqu PNEC sec PNEC sec PNEC sec PNEC, so	1-methylethyl aceta 607-195-00-7 / EC uatic, freshwater: 0, uatic, marine water: diment, freshwater: diment, marine wate iil: 0,29 mg/kg wage treatment plar	No. 203-603-9 / CAS No. 108-65-6 635 mg/l 0,064 mg/l 3,29 mg/kg rr: 0,329 mg/kg				
8.2.		od ventilation. This		ction. If this should not be sufficient to keep aerosol and ble respiratory protection must be used.			
	Personal protection equipment						
	If concentra must be us	ed. Observe the we	ar time limits according GefStoffV in c	mit values, approved and suitable respiratory protection combination with the rules for using respiratory protection CE-symbol including four digit test number.			
	Thickness of Observe th	ed or repeated han of the glove materia ne instructions and	I > 0,4 mm ; Breakthrough time (maxim details for use, storage, maintenan	be used: Butyl caoutchouc (butyl rubber) num wearing time) > 480 min. nce and replacement provided by the protective glove			

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 EN ISO 374

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

Eye/face protection

Wear closely fitting protective glasses in case of splashes.

Body protection

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 section 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties Appearance:

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v ei SIO					raye 3/3
	Physical Colour:	state:		Liquid refer to label	
	Odour:			characteristic	
	Odour thre	shold:		not determine	d
	pH at 20 °C: Melting point/freezing point:			not applicable	
				not determine	
	• •	ng point and boilin	g range:	145 °C	
	Flash poin			43 °C Method: DIN 5	3213-1 (08/2002: replaced by EN ISO 1523)
	Evaporatio	on rate:		not determine	
	flammabili Burning t			not applicable	
	-	er flammability or e	explosive limits:		
	Lower ex	plosion limit:		1 Vol-%	
	Upper ex	plosion limit:		10,8 Vol-%	
	Vapour pre	essure at 20 °C:		5 mbar	
	Vapour de	•		not determine	d
	Relative de Density at	20 °C:		1,23 g/cm³	
	Solubility(i Water solu	es): ubility (g/L) at 20 °C	:	insoluble	
	Partition c	oefficient: n-octan	ol/water:	see section 12	2
	Ignition ter	nperature in °C		315 °C	
	Decompos	ition temperature:		not applicable	
	Viscosity a	t 20 °C:		> 90 s 4 mm Method: DIN 5	3211
	Explosive	properties:		not applicable	
	Oxidising	properties:		not applicable	
9.2.	Other info	rmation			
	Solid conte	ent (%):		69 Wt %	
	solvent co	ntent:			
	Organic s	olvents:		31 Wt %	
	Water:			0 Wt %	
	Solvent se	paration test (%):		< 3 Wt % (ADF	R/RID)
SEC	TION 10: S	tability and react	ivity		
10.1.	Reactivity No information	tion available.			
10.2.	 Chemical stability Stable when applying the recommended regulations for storage and handling. Further information on correct storage: reference 			and handling. Further information on correct storage: refer to	
10.3.	 Possibility of hazardous reactions Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions. 				agents to avoid exothermic reactions.
10.4.	 A. Conditions to avoid Hazardous decomposition byproducts may form with exposure to high temperatures. 				
10.5.		ole materials			ingh temperaturee.
10.6.	Hazardous Hazardous	decomposition pr		with exposure t	o high temperatures, e.g.: carbon dioxide, carbon monoxide
SEC	τιον 11· τ	oxicological info	rmation		
OLC.			mation		

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

11.1. Information on toxicological effects

Acute toxicity

2-ethoxy-1-methylethyl acetate oral, LD50, Rat: 5000 mg/kg dermal, LD50, Rabbit: 13,42 mg/kg inhalative (vapours), LC50, Rat: 6,99 mg/l (4 h)

2-methoxy-1-methylethyl acetate oral, LD50, Rat: > 5000 mg/kg dermal, LD50, Rabbit: > 5000 mg/kg inhalative (vapours), LC50, Rat: 23,5 mg/l (4 h)

Skin corrosion/irritation; Serious eye damage/eye irritation

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

Respiratory or skin sensitisation

May cause an allergic skin reaction.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

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

STOT-single exposure; STOT-repeated exposure

May cause drowsiness or dizziness.

Aspiration hazard

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

Practical experience/human evidence

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

Classification according to Regulation (EC) No 1272/2008 [CLP] Do not allow to enter into surface water or drains.

12.1. Toxicity

2-ethoxy-1-methylethyl acetate Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 140 mg/l (96 h) Daphnia toxicity, EC50, Daphnia magna: 110 mg/l (48 h) Algae toxicity, ErC50, green alga: > 100 mg/l (72 h) Bacterial toxicity:, EC10, Pseudomonas putida: 560 mg/l (16 h)

2-methoxy-1-methylethyl acetate

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 134 mg/l (96 h) Daphnia toxicity, EC50, Daphnia magna: > 500 mg/l (48 h) Algae toxicity, ErC50, Selenastrum capricornutum: > 1000 mg/l (72 h)

Bacterial toxicity:, EC10, Activated sludge: > 1000 (1 h)

Long-term Ecotoxicity

Harmful to aquatic life with long lasting effects.

2-methoxy-1-methylethyl acetate Fish toxicity, NOEC, Oryzias latipes: 47,5 mg/l (14 d) Aquatic organisms:, NOEC, Daphnia magna: 100 (21 d)

12.2. Persistence and degradability

2-ethoxy-1-methylethyl acetate , OECD 301D: 100 % (28 d)

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	2-methoxy-1-methylethyl ace aerobic, OECD 301 F: 76,4					
	Bioaccumulative potential	5 ()	*			
	2-methoxy-1-methylethyl ace Partition coefficient: n-octa					
E	Bioconcentration factor (B	CF)				
	2-methoxy-1-methylethyl ace Bioconcentration factor (BC					
	Mobility in soil Foxicological data are not av	ailable.				
12.5. F	Results of PBT and vPvB a	issessment				
Т	The substances in the mixtu	re do not meet the PBT/vPvB	criteria according to REACH, annex XIII.			
12.6. C	Other adverse effects No information available.					
SECTI	ON 13: Disposal consid	lerations				
13.1. V	Naste treatment methods					
R	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.					
d L 0 *I	List of proposed waste coo 080312* waste Hazardous waste according Appropriate disposal / Pac	des/waste designations in a ink containing dangerous su to Directive 2008/98/EC (wa	bstances			
d 0 *1 A N	List of proposed waste co 080312* waste Hazardous waste according Appropriate disposal / Pac Recommendation Non-contaminated packages	des/waste designations in a ink containing dangerous su to Directive 2008/98/EC (wa kage s may be recycled. Vessels no	bstances			
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d L 0 ** A R N 14.1. U 14.2. U L S A 14.3. T L S fc 14.4. P 14.5. E L M	List of proposed waste coo 280312* waste 24 Hazardous waste according 25 Appropriate disposal / Pac 26 Appropriate disposal / Pac 26 Appropriate disposal / Pac 27 Appropriate disposal / Pac 28 Appropriate disposal / Pac 29 Appropriate disposal / Pac 29 Appropriate disposal / Pac 20 Appropriate dispo	des/waste designations in a ink containing dangerous su to Directive 2008/98/EC (wa kage s may be recycled. Vessels no nation UN 1210 Printing PRINTIN PRINTIN PRINTIN PRINTIN N-DGR): Printing PRINTIN S-DGR): Printing PRINTIN N-DGR): Printing N-DGR): Printing IMDG C in conta 3 Transpo IMDG C 3 III not appling	icable			
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Land transport (ADR/RID)

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rticle No.: Print date	T28 18.05.2020	SERIE/SERIES	EN			
ersion	8.8	Revision date 18.04.2020	Page 8 / 9			
tunne	el restriction code	D/E				
Sea t	ransport (IMDG)					
EmS-	-No.	F-E, S-D				
4.7. Trans	sport in bulk accordi	ng to Annex II of Marpol and the IBC Code				
not a	pplicable					
SECTION	15: Regulatory info	ormation				
5.1. Safet	y, health and enviro	nmental regulations/legislation specific for	the substance or mixture			
EU le	gislation					
	tive 2010/75/EU on in- value (in g/L): 381,63					
Natio	onal regulations					
Rest	rictions of occupatio	n				
Obse	rve restrictions to emp	ployment for juvenils according to the 'juvenile	e (92/85/EEC) for expectant or nursing mothers. work protection guideline' (94/33/EC).			
	-	tions and prohibition regulations				
	nical Safety Assessn nical safety assessme	nent nts for substances in this mixture were not car	rried out.			
ECTION	16: Other informat	ion				
	ext of classification					
	. Liq. 3 / H226	Flammable liquids	Flammable liquid and vapour.			
SIO	Г SE 3 / H336	Specific target organ toxicity (single exposure)	May cause drowsiness or dizziness.			
Skin I	Irrit. 2 / H315	skin corrosion/irritation	Causes skin irritation.			
	rrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.			
	Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.			
-	tic Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.			
	sification procedure					
	Liq. 3	and used evaluation method according to regu Flammable liquids	Diation (EC) No 1272/2008 [CLP] On basis of test data.			
	Sens. 1	Respiratory or skin sensitisation	Calculation method.			
STOT	r se 3	Specific target organ toxicity (single exposure)	Calculation method.			
-	tic Chronic 3	Hazardous to the aquatic environment	Calculation method.			
	eviations and acrony		Corriges of Departure Coods by Dood			
ADR OEL		opean Agreement concerning the International upational Exposure Limit Value	Carriage of Dangerous Goods by Road			
BLV		ogical Limit Value				
CAS		mical Abstracts Service				
CLP		lassification, Labelling and Packaging arcinogenic, Mutagenic and Reprotoxic erman Institute for Standardization / German industrial standard				
CMR DIN						
DNEL		ved No-Effect Level				
EAK\		opean Waste Catalogue Directive				
EC		ctive Concentration				
EC EN		opean Community				
IATA-		uropean Standard ternational Air Transport Association – Dangerous Goods Regulations				
IBC C			ment of Ships carrying Dangerous Chemicals in Bul			
ICAO	D-TI Inter Goo	national Civil Aviation Organization Technica ds by Air	al Instructions for the Safe Transport of Dangero			
	Carla latas	national Maritime Code for Dangerous Goods	;			
IMDG						
ISO	Inter	national Organization for Standardization				
	Inter Leth					

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OECD PBT PNEC REACH RID UN VOC vPvB	persi Predi Regu Regu Unite Volat	nisation for Economic Cooperation and I stent, bioaccumulative, toxic cted No Effect Concentration stration, Evaluation, Authorisation and R lations concerning the International Carr d Nations ile Organic Compounds persistent and very bioaccumulative	estriction of Chemicals	

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 section 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