Article No Print date Version		Brush Pen Clear La Revision date 27.05 Issue date 27.05.20	5.2015	EN Page 1 / 9	Seit 1892
1. Id e	entification of the subs	tance/mixture and	of the company/ur	ndertaking	
1.1. Pr	oduct identifiers				
	ticle No. (manufacturer/supp entification of the substance	,	288000 Brush Pen Clear Lac	cquer	
1.2. Re	elevant identified uses of t	he substance or mix	ture and uses advise	ed against	
	elevant identified uses: Dating(Paint, Vamish).				
	ses advised against:	come into contact with	the food stuffs.		
1.3. De	etails of the supplier of the	e safety data sheet			
He An	pplier (manufacturer/impo einrich König & Co.KG eder Rosenhelle 5 61138 Niederdorfelden	orter/downstream use	er/distributor) Telephone: +49610 Telefax: +49610153		
lab	ept. responsible for inform poratory nly available during office hou		+49 6101 536071 Monday - Thursday (Friday 08:00 - 13:30	08:00 - 17:00	
	mail (competent person)		SDB@heinrich-koen	ig.de	
	nergency telephone numb nergency telephone number	er	Emergency CONTA GmbH +49 (0)6132-8	CT (24-Hour-Number):G 34463	BK
2. H a	azards identification				
2.1. Cla	assification of the substa	nce or mixture			
Cla	assification according to	Regulation (EC) No. 1	1272/2008 [CLP]		
Th	is mixture is classified as ha	zardous according to re	egulation (EC) No. 127	72/2008 [CLP].	
Ey	am. Liq. 2 / H225 e Irrit. 2 / H319 ⁻ OT SE 3 / H336	flammable liquids Serious eye damage Specific target organ exposure)		Highly flammable liq Causes serious eye May cause drowsin	irritation.
Aq	uatic Chronic 3 / H412	Hazardous to the aqu	uatic environment	Harmful to aquatic li	fe with long lasting effects.
	bel elements				
	belling according to Regu	Ilation (EC) No. 1272	/2008 [CLP]		
На	azard pictograms				
		_			



Danger

Hazard statements	
-------------------	--

nazaru statements	
H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.
Precautionary state	nents
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy





Article Print o Versio	date	288000 28.05.2015 1.13	Brush Pen Clear Lacquer Revision date 27.05.2015 Issue date 27.05.2015	EN Page 2 / 9	Seit 1892
	P312 P337 + P31 P370 + P37 P501 contains:	Call 3 If ey 8 In ca	b. Continue rinsing. a POISON CENTER or doctor/physician if e irritation persists: Get medical advice/atte ase of fire: Use foam to extinguish. bose of contents/container to industrial incine	ntion.	
	contains.	n-bi	utyl acetate		
	Supplemer EUH066	ntal Hazard info	-	r cracking.	
2.3.	Other haza	rds			
	No risks wo	rthy of mention.	Please observe the information on the safe	ety data sheet at all times.	
3.	Composit	ion / Informa	tion on ingredients		
3.1.	Substance				
3.1.					
	notapplicab	le			
3.2.	Mixtures				
	Product de	scription / che	emical characterization		
	Description	n Acry	/lic resin lacquer		
	Hazardous	ingredients			
	Classificat	ion according	to Regulation (EC) No. 1272/2008 [CLP]		
	EC No. CAS No. INDEX No.	REA Che	ACH No. emical name esification:		Wt % Remark
	204-658-1		2119485493-29-0000		Reillaik
	123-86-4 607-025-00	n-bu	n. Liq. 3 H226 / STOT SE 3 H336		25 - 50
	201-159-0 78-93-3 606-002-00	buta	2119457290-43-0000 inone n. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT	SE 3 H336	12,5 - 20
	918-668-5	Solv Flar	2119455851-35-0000 /ent naphtha (petroleum), light arom.; Low b n. Liq. 3 H226 / Asp. Tox. 1 H304 / STO quatic Chronic 2 H411		10 - 12,5
	205-500-4 141-78-6 607-022-00	ethy	2119475103-46-0000 /lacetate n. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT	SE 3 H336	5 - 10
	203-550-1 108-10-1 606-004-00	4-m	2119473980-30-0000 ethylpentan-2-one n. Liq. 2 H225 / Acute Tox. 4 H332 / Eye	Irrit. 2 H319 / STOT SE 3 H335	2,5 - 5
		information lassification: se	e section 16		
	Labelling f	or contents ac	cording to regulation (EC) No. 648/2004	:	
	Wt %	Ingi	edient (Designation)		
	E 1E 0/		matia hudra aarhana		

5 - 15 % aromatic hydrocarbons

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.



Article No.:	288000	Brush Pen Clear Lacquer		
Print date	28.05.2015	Revision date 27.05.2015	EN	Coit 100
Version	1.13	Issue date 27.05.2015	Page 3 / 9	Seit 1892

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

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

Dense black smoke occurs during fire. 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. Treat runoff as hazardous.

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).

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. Avoid respiration of swarf. 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



Article No.:	288000	Brush Pen Clear Lacquer		
Print date Version	28.05.2015 1.13	Revision date 27.05.2015 Issue date 27.05.2015	EN Page 4 / 9	Seit 1892
			8	

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 15 °C and 30 °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:

butanone

INDEX No. 606-002-00-3 / EC No. 201-159-0 / CAS No. 78-93-3

TWA: 600 mg/m3; 200 ppm STEL: 899 mg/m3; 300 ppm

ethyl acetate

INDEX No. 607-022-00-5 / EC No. 205-500-4 / CAS No. 141-78-6

TWA: 1460 mg/m3; 400 ppm

4-methylpentan-2-one INDEX No. 606-004-00-4 / EC No. 203-550-1 / CAS No. 108-10-1

TWA: 208 mg/m3; 50 ppm STEL: 416 mg/m3; 100 ppm

n-butyl acetate

INDEX No. 607-025-00-1 / EC No. 204-658-1 / CAS No. 123-86-4

TWA: 724 mg/m3; 150 ppm STEL: 966 mg/m3; 200 ppm

Additional information

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

DNEL:

ethyl acetate INDEX No. 607-022-00-5 / EC No. 205-500-4 / CAS No. 141-78-6 DNEL long-term dermal (local), Workers: 63 mg/kg DNEL acute inhalative (systemic), Workers: 1468 mg/m³ DNEL long-term inhalative (systemic), Workers: 734 mg/m³

4-methylpentan-2-one

INDEX No. 606-004-00-4 / EC No. 203-550-1 / CAS No. 108-10-1

DNEL acute inhalative (local), Workers: 208 mg/m³

DNEL acute inhalative (systemic), Workers: 208 mg/m³

DNEL long-term inhalative (local), Workers: 83 mg/m³

DNEL long-term inhalative (systemic), Workers: 83 mg/m³

Solvent naphtha (petroleum), light arom.; Low boiling point, naphtha - unspecified EC No. 918-668-5

DNEL long-term dermal (systemic), Workers: 25 mg/kg

DNEL long-term inhalative (systemic), Workers: 150 mg/m³

DNEL long-term oral (repeated), Consumer: 11 mg/kg

DNEL long-term dermal (systemic), Consumer: 11 mg/kg

DNEL long-term inhalative (systemic), Consumer: 32 mg/m³

butanone

INDEX No. 606-002-00-3 / EC No. 201-159-0 / CAS No. 78-93-3 DNEL short-term oral (acute), Workers:

DNEL long-term dermal (systemic), Workers: 1161 mg/kg



Article No.: Print date Version	288000 28.05.2015 1.13	Brush Pen Clear Lacquer Revision date 27.05.2015 Issue date 27.05.2015	EN Page 5 / 9	Seit 189
DNEL	ong-term oral (repea	(systemic), Workers: 600 mg/m³ ated), Consumer: 31 mg/kg (systemic), Consumer: 106 mg/m³		
DNEL a DNEL k DNEL a	lo. 607-025-00-1 / E acute inhalative (sys ong-term inhalative acute inhalative (sys	C No. 204-658-1 / CAS No. 123-86-4 temic), Workers: 960 mg/m ³ (systemic), Workers: 480 mg/m ³ temic), Consumer: 859,7 mg/m ³ (systemic), Consumer: 102,34 mg/m ³		
PNEC:				
PNEC a PNEC a PNEC s PNEC s		er: 0,026 mg/L r: 1,25 mg/kg		
PNEC a PNEC a PNEC s	lo. 606-002-00-3 / E aquatic, freshwater: aquatic, marine wate sediment, freshwate	er: 55,8 mg/L		
PNEC PNEC PNEC PNEC PNEC		er: 0,018 mg/L release: 0,36 mg/L r: 0,981 mg/kg		

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. Filtering device (full mask or mouthpiece) with filter:AX1

Hand protection

For prolonged or repeated handling the following glove material must be used: FKM (fluoro 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.

9. Physical and chemical properties



Article No.: Print date	288000 28.05.2015	Brush Pen Clear Lacquer Revision date 27.05.2015	EN	Colt 1002
Version	1.13	Issue date 27.05.2015	Page 6/9	Seit 1892

9.1. Information on basic physical and chemical properties

Appearance:					
Physical state	liquid				
Colour	characteristic				
Odour	characteristic				
Safety relevant basis data			Unit	Method	Remark
Flash point:		12	°C	calculated.	
Ignition temperature in °C:		n.a.			
Lower explosion limit		1,5	Vol-%	calculated.	
Upper explosion limit		15,0	Vol-%	calculated.	
Vapour pressure at 20 °C:		33,56	mbar	calculated.	
Density at 20 °C:		0,90	g/cm ³	calculated.	
Vapour density; Bulk densi	ty	N.A.	kg/m³		
Water solubility (g/L)		insoluble			
pH at 20 °C:		N.A.			
Viscosity at 20 °C		12 s 4 mm		DIN 53211	
Distribution coefficient (n-octanol / wa	ater) (log P O/W)	N.A.			
solvent content:					
Organic solvents:		78	Wt %		
Water:		0	Wt %		
Initial boiling point and boil	ing range	77	°C	calculated.	
Melting point/freezing point		N.A.	°C		
Evaporation rate		N.A.	°C		
Auto-ignition temperature:		N.A.	°C		
Decomposition temperature	e:	N.A.	°C		
Other information:					
Explosive properties not explo	sive.				
Not oxidising.					
Odour threshold: not determin	ed				
No risks worthy of mention. Pl	ease observe the inforr	mation on th	e safetv dat	a sheet at all times	

10. Stability and reactivity

10.1. Reactivity

No known hazardous reactions.

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

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

10.6. Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides. Keine Entstehungsgefahr der oben ange=führten Produkte bei sachgemäßem Umgang

11. Toxicological information

Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP] No data on preparation itself available.

11.1. Information on toxicological effects

Acute toxicity

4-methylpentan-2-one oral, LD50, Rat: > 2000 mg/kg

skin corrosion/irritation; Serious eye damage/eye irritation

Toxicological data are not available.



Article No.:	288000	Brush Pen Clear Lacquer
Print date	28.05.2015	Revision date 27.05.2015
Version	1.13	Issue date 27.05.2015

EN Page 7 / 9

Respiratory or skin sensitisation

Toxicological data are not available.

Specific target organ toxicity

n-butyl acetate

Specific target organ toxicity (single exposure), drowsiness: May cause drowsiness or dizziness.

Aspiration hazard

Solvent naphtha (petroleum), light arom.; Low boiling point, naphtha - unspecified Aspiration hazard

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.

Remark

There is no information available on the preparation itself.

12. Ecological information

overall evaluation

Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [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 assessment

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

12.6. Other adverse effects

No data available

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

waste paint and varnish containing organic solvents or other dangerous substances

packaging

080111

Recommendation

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

Aquatic Chronic 2 / H411

© Seit 1892

Article Print d /ersic		288000 28.05.2015 1.13	Brush Pen Clear Lacquer Revision date 27.05.2015 Issue date 27.05.2015	EN Page 8 / 9	Seit 1892
14.	Transpor	t information			
14.1.	UN numbe	r	1060		
14.2.	Land trans	shipping name port (ADR/RID): ort (IMDG): rt (ICAO-TI / IATA	1263 Paint PAINT A-DGR): Paint		
4.3.	Transport	hazard class(es)	3		
4.4.	Packing g	roup	I		
4.5.	Environm	ental hazards			
	Land trans	port (ADR/RID)	n.a.		
	Marinepoll	,	n.a.		
4.6	•	ecautions for us			
	Transport a case of an		upright and safe containers. Make sure ge.	that persons transporting t	he product know what to do in
	Additional	information			
	Land trans	sport (ADR/RID)			
	tunnel restr	iction code	D/E SPECIAL PROV	ISIONS 640D	
	Sea trans	port (IMDG)			
	EmS-No.		F-E, S-E		
4.7.	Transport	in bulk accordir	ng to Annex II of MARPOL and the I	3C Code	
	not applica	ble			
5.	Regulato	ry information			
15.1.	Safety, he EU legisla		mental regulations/legislation spec	ific for the substance or	mixture
	Information VOC-value			sions of volatile organic 02,653 02,653	compounds (VOC-guideline).
	National r	egulations			
	Observe er		n tions under the Maternity Protection Dir byment for juvenils according to the 'juve		
	Other reg	ulations, restrict	ions and prohibition regulations		
15.2.		Safety Assessm afety assessmen	ent ts for substances in this preparation we	re not carried out.	
6.	Other inf	ormation			
	Full text o Flam. Liq. 3 STOT SE 3		flammable liquids Specific target organ toxicity (single	Flammable liqu May cause dro	uid and vapour. owsiness or dizziness.
	Flam. Liq. 2 Eye Irrit. 2 Asp. Tox. 1 STOT SE 3	/ H319 / H304	exposure) flammable liquids Serious eye damage/eye irritation Aspiration hazard Specific target organ toxicity (single	Causes seriou May be fatal if	ble liquid and vapour. s eye irritation. swallowed and enters airways. piratory irritation.
	Aquatic Ch	ronic 2 / H411	exposure) Hazardous to the aquatic environm	ont Toxic to aquati	c life with long lasting effects

Hazardous to the aquatic environment Toxic to aquatic life with long lasting effects.



Article No.: Print date Version	288000 28.05.2015 1.13	Brush Pen Clear Lacquer Revision date 27.05.2015 Issue date 27.05.2015	EN Page 9 / 9	Seit 1892

Acute Tox. 4 / H332

Acute toxicity (inhalative)

Harmful if inhaled.

Additional information

Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [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.