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1.	Identificat	ion of the subs	ance/mixture and o	f the company/underta	aking	
1.1.	Product id	entifiers				
		manufacturer/supp n of the substance (or mixture	241X00 Edge Pen Art.No.: 243000, 243900 all colours, all gloss values		
1.2.	Relevant ic	lentified uses of t	he substance or mixtu	ire and uses advised aga	ainst	
		lentified uses: int,Varnish).				
		ed against:	come into contact with t	he food stuffs.		
1.3.	Details of t	he supplier of the	safety data sheet			
	supplier (m	nanufacturer/impo	orter/downstream user	/distributor)		
	An der Rose	nig & Co.KG enhelle 5 ederdorfelden		Telephone: +4961015360 Telefax: +496101536011	0	
	Dept. respo	onsible for inform	ation:			
	laboratory Only availat	ble during office hou	irs:	+49 6101 536071 Monday - Thursday 08:00 - Friday 08:00 - 13:30	- 17:00	
	E-mail (com	petent person)		SDB@heinrich-koenig.de		
1.4.		, telephone numb		0		
		telephone number		Emergency CONTACT (24 GmbH +49 (0)6132-84463	-Hour-Number):G	ВК
2.	Hazards i	dentification				

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].

	3 · · · · · · · · · ·	
Flam. Liq. 2 / H225	flammable liquids	Highly flammable liquid and vapour.
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.
STOT SE 3 / H336	Specific target organ toxicity (single exposure)	May cause drowsiness or dizziness.
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

Danger

Hazard statements

Brocoutionory o	tatamanta
H412	Harmful to aquatic life with long lasting effects.
H336	May cause drowsiness or dizziness.
H335	May cause respiratory irritation.
H319	Causes serious eye irritation.
H225	Highly flammable liquid and vapour.

Precautionary statements

riooaanona	y statements
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.





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	P280 P303 + P36	1 + P353	Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN (or hair): Remove/Take off immediately all contaminated cloth	hing. Rinse skin with					
	P304 + P34 P305 + P35		water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breath IF IN EYES: Rinse cautiously with water for several minutes. Remove con to do. Continue rinsing.						
	P312 P337 + P31 P370 + P37 P501		Call a POISON CENTER or doctor/physician if you feel unwell. If eye irritation persists: Get medical advice/attention. In case of fire: Use foam to extinguish. Dispose of contents/container to industrial incineration plant.						
	contains:								
			4-methylpentan-2-one n-butyl acetate						
	Supplemer EUH066	ntal Hazar	d information (EU) Repeated exposure may cause skin dryness or cracking.						
2.3.	Other haza	rds							
	No risks wo	rthy of mer	ntion. Please observe the information on the safety data sheet at all times.						
3.	Composit	ion / Info	rmation on ingredients						
3.1.	Substance	s							
	not applicab	le							
3.2.	Mixtures								
-	Product description / chemical characterization								
	Description	-	Acrylic resin lacquer						
	-								
		Hazardous ingredients							
	Classificat EC No.	ion accor	ding to Regulation (EC) No. 1272/2008 [CLP] REACH No.						
	CAS No.		Chemical name	Wt %					
	INDEX No.		classification:	Remark					
	204-658-1		01-2119485493-29-0000						
	123-86-4		n-butyl acetate	25 - 50					
	607-025-00	-1	Flam. Liq. 3 H226 / STOT SE 3 H336						
	203-550-1		01-2119473980-30-0000	00.05					
	108-10-1 606-004-00-	-4	4-methylpentan-2-one Flam. Liq. 2 H225 / Acute Tox. 4 H332 / Eye Irrit. 2 H319 / STOT SE	20 - 25 3 H335					
	918-668-5	•	01-2119455851-35-0000						
			Solvent naphtha (petroleum), light arom.; Low boiling point, naphtha - unsp Flam. Liq. 3 H226 / Asp. Tox. 1 H304 / STOT SE 3 H335 / STOT SE / Aquatic Chronic 2 H411						
	201-159-0		01-2119457290-43-0000						
	78-93-3	-	butanone	5 - 10					
	606-002-00	-3	Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336						
	203-603-9 108-65-6		01-2119475791-29 2-methoxy-1-methylethyl acetate	2,5 - 5					
	607-195-00-	-7	Flam. Liq. 3 H226	2,0 ⁻ 0					
	Additional		•						
	* Substance	e with a cor	nmon (EC) occupational exposure limit value. on: see section 16						
	l abelling f	or conten	ts according to regulation (EC) No. 648/2004:						
	Lasoning								
	Wt %		Ingredient (Designation)						

........

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



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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 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.

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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 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

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:

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: 600 mg/kg DNEL long-term dermal (systemic), Workers: 1161 mg/kg DNEL long-term inhalative (systemic), Workers: 600 mg/m³

DNEL long-term oral (repeated), Consumer: 31 mg/kg



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Article No.: 241X00 Edge Pen Print date 27.05.2015 Revision date 22.05.2015 Version Issue date 22.05.2015 Page 5/8 1 1 4 DNEL long-term inhalative (systemic), Consumer: 106 mg/m³ n-butyl acetate INDEX No. 607-025-00-1 / EC No. 204-658-1 / CAS No. 123-86-4 DNEL acute inhalative (systemic), Workers: 960 mg/m³ DNEL long-term inhalative (systemic), Workers: 480 mg/m³ DNEL acute inhalative (systemic), Consumer: 859,7 mg/m³ DNEL long-term inhalative (systemic), Consumer: 102,34 mg/m³ PNEC: butanone INDEX No. 606-002-00-3 / EC No. 201-159-0 / CAS No. 78-93-3 PNEC aquatic, freshwater: 55,8 mg/L PNEC aquatic, marine water: 55,8 mg/L PNEC sediment, freshwater: 285 mg/kg PNEC sewage treatment plant (STP): 709 mg/L n-butyl acetate INDEX No. 607-025-00-1 / EC No. 204-658-1 / CAS No. 123-86-4

PNEC aquatic, freshwater: 0,18 mg/L PNEC aquatic, marine water: 0,018 mg/L

PNEC aquatic, intermittent release: 0,36 mg/L

PNEC sediment, freshwater: 0,981 mg/kg PNEC sediment, marine water: 0,0981 mg/kg

PNEC, Soil: 0,0903 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

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:		16	°C	calculated.	
Flash point: Ignition temperature in °C:		16 n.a.			



		9				
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	Upper expl			Vol-%	calculated.	
		ssure at 20 °C:	15,96		calculated.	
	Density at 2	20 °C: nsity; Bulk density		g/cm³ kg/m³	calculated.	
	Water solu		insoluble	Kg/III*		
	pH at 20 °C		N.A.			
	Viscosity a	t 20 °C	100 s 3 mm		EN ISO 2431	
		efficient (n-octanol / wate	r) (log P O/W) N.A.			
	solvent co		70	14/1-07		
	Organic s Water:	olvents:		Wt % Wt %		
		ng point and boiling		°C	calculated.	
		nt/freezing point	N.A.			
	Evaporatio		N.A.	-		
	-	on temperature:	N.A.			
	-	ition temperature:	N.A.	°C		
9.2.	Other infor					
	Explosive p Not oxidising	roperties not explosiv	/e.			
		9. hold: not determined				
			se observe the information on th	e safety	/ data sheet at all times.	
10.	Stability a	nd reactivity				
10.1.	Reactivity					
	-	azardous reactions.				
10.2.	Chemical s	tability				
		n applying the recon	nmended regulations for storage	e and h	andling. Further information o	on correct storage: refer to
	chapter 7.					
10.3.	-	of hazardous react				
10.4	Conditions	-	rong bases and strong oxidizing	agents	to avoid exothermic reactions.	
10.4.			oducts may form with exposure to	hiah te	mperatures.	
10.5.		le materials				
	-		rong bases and strong oxidizing	agents	to avoid exothermic reactions.	
10.6.		decomposition pro				
			oducts may form with exposure			
		-	ntstehungsgefahr der oben ange	=funrtei	n Produkte bei sachgemalsem	Umgang
11.		ical information	and avaluation mathed assorting	torea	lation (EC) 1207/2009 [CL P]	
		preparation itself avai	sed evaluation method according lable.	JUIEGU	nauon (EC) 1207/2000 [CLP]	
11.1.	Information	n on toxicological e	effects			
	Acute toxic	ity				
	4-methylper oral, LD50	tan-2-one , Rat: > 2000 mg/kg				
	skin corros	sion/irritation; Serie	ous eye damage/eye irritation			
	Toxicologic	al data are not availat	ole.			
	Respirator	y or skin sensitisat	ion			
	Toxicologic	al data are not availal	ole.			
	Specific ta	rget organ toxicity				
	n-butyl aceta	ate				
	Specific ta		ingle exposure), drowsiness: iness.			
	Aspiration	hazard				

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

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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.

14. Transport information

14.1. UN number

1	2	6	3

14.2.	UN proper shipping name	
	Land transport (ADR/RID):	Paint
	Sea transport (IMDG):	PAINT
Air transport (ICAO-TI / IATA-DGR):		Paint

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14.4.	Packing gr	oup						
			II					
14.5.		ntal hazards						
	-	ort (ADR/RID)	n.a.					
	Marinepollu		n.a.					
14.6.	Special pre	ecautions for user						
	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							
	Additional	information						
	Land trans	port (ADR/RID)						
	tunnel restri	ction code	D/E SPECIAL PROVIS	SIONS 640D				
	Sea transp	ort (IMDG)						
	EmS-No.		F-E, S-E					
14.7.	Transport i	in bulk according t	o Annex II of MARPOL and the IBC	Code				
	not applicab	le						
15.	Regulator	y information						
15.1.	Safety, hea	lth and environme	ntal regulations/legislation specifi	c for the substance or mixtu	re			
	EU legislat		······································					
	Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline). VOC-value (in g/L) ISO 11890-2: 693,208 VOC-value (in g/L) ASTM D 2369: 693,208							
	National re							
		s of occupation						
			s under the Maternity Protection Direction Direction Direction by the second					
	Other regu	lations, restriction	s and prohibition regulations					
15.2.	2. Chemical Safety Assessment Chemical safety assessments for substances in this preparation were not carried out.							
16.	Other info	ormation						
	Full text of	classification in s	ection 3:					
	Flam. Liq. 3		flammableliquids	Flammable liquid and				
	STOT SE 3	/ H336	Specific target organ toxicity (single exposure)	May cause drowsines	ss or dizziness.			
	Flam. Liq. 2		flammableliquids	Highly flammable liqui	id and vapour.			
	Acute Tox.		Acute toxicity (inhalative)	Harmful if inhaled.	wite tien			
	Eye Irrit. 2 / STOT SE 3		Serious eye damage/eye irritation Specific target organ toxicity (single	Causes serious eye ir May cause respiratory				
	0101020	/ 11000	exposure)	May cause respiratory	y initiation.			
	Asp. Tox. 1 Aquatic Chr	/ H304 onic 2 / H411	Aspiration hazard Hazardous to the aquatic environmer		wed and enters airways. ith long lasting effects.			
	Additional Classificatio	information on for mixtures and u	sed evaluation method according to re s safety data sheet complies with our	gulation (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.