Article Print o Versio	date:	22450000 04.03.2019 1.5	LUKAS HELIOS Revision date: 2 Issue date: 06.0		EN Page: 1 / 7	_
	SECTION 1	: Identificatior	of the substand	ce/mixture and of the	e company/undertaking	
1.1.		ntifiers nanufacturer/sup of the substance		22450000 LUKAS HELIOS Re HELIOS Restauratio	•	
1.2.	Relevant ide	entified uses of	the substance or r	mixture and uses advis	sed against	
	Paints for Ar Artists supply	entified uses: ts, Hobby & Craft y and hobby prep d paints, thinners	arations			
1.3.	Details of th	e supplier of the	e safety data shee	t		
	Supplier (ma Daler-Rowne Peacock Lar Bracknell, R	ey Ltd	orter/downstream	user/distributor): Telephone: +44 (0) Telefax: +44 (0) 134		
	ENGLAND					
	Dept. respo	nsible for inform	nation:			
	E-mail			Philip.Gray@daler-r	rowney.com	
1.4.	Emergency Emergency t	<b>telephone numb</b> elephone:	ber	+44 (0) 1344 46100	00	
	SECTION 2	: Hazards ider	ntification			
2.1.	Classificatio	on of the substa	nce or mixture			
	Classificatio	on according to	Regulation (EC) N	o 1272/2008 [CLP]		
	The mixture	is classified as ha	azardous according	to regulation (EC) No 1	272/2008 [CLP].	
	Flam. Liq. 3		Flammable liquid		Flammable liquid and vapour.	
	Acute Tox. 4 Acute Tox. 4		Acute toxicity (or Acute toxicity (de		Harmful if swallowed. Harmful in contact with skin.	
	Acute Tox. 4	/ H332	Acute toxicity (inl	halative)	Harmful if inhaled.	
	Skin Irrit. 2 / Eye Irrit. 2 / I		skin corrosion/irri	itation lage/eye irritation	Causes skin irritation. Causes serious eye irritation.	
	Skin Sens. 1		Respiratory or sk		May cause an allergic skin reaction.	
	Asp. Tox. 1 /		Aspiration hazard		May be fatal if swallowed and enters airways.	
2.2	Aquatic Chro		Hazardous to the	e aquatic environment	Toxic to aquatic life with long lasting effects.	
2.2.			labelled according t	to EC directives or corre	sponding national laws	
	-		ulation (EC) No. 12		sponding national laws.	
	Hazard picto					
				2 Danger		
	Hazard state	ements				
	H226		able liquid and vap			
	H302 + H312 H315		il if swallowed, in co s skin irritation.	ontact with skin or if inha	aled.	
	H319		s serious eye irritati	on.		
	H317		use an allergic skir			
	H304 H411		o aquatic life with lo	and enters airways.		
		ry statements		_ 0		
	P261		preathing vapours.			
	P280 P301 + P310		protective gloves. ALLOWED: Immedi	iately call a POISON CE	NTER or doctor/physician.	
	P301 + P310IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.P331Do NOT induce vomiting.					

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	P501		Dispose of contents/container in accordance with local legislation.			
	P102		Keep out of the reach of children.			
	P262		Do not get in eyes, on skin, or on clothing.			
	contains:		turpentine, oil			
	Supplemer	ntal Hazar	d information (EU) not applicable			
3.	Other haza	irds				
	SECTION	3: Comp	osition / information on ingredients			
2.	Mixtures					
	Product description / chemical characterization					
	Description	n	Solvents/Thinner			
	Hazardous ingredients					
	Classification according to Regulation (EC) No 1272/2008 [CLP]					
	EC No.		REACH No.			
	CAS No.		Chemical name	Wt %		
	INDEX No.		classification:	Remark		
	232-350-7		1	50, 100		
	8006-64-2		turpentine, oil	50 - 100 outo Tox 4		
	650-002-00	1-0	Flam. Liq. 3 H226 / Acute Tox. 4 H332 / Acute Tox. 4 H312 / A H302 / Asp. Tox. 1 H304 / Eye Irrit. 2 H319 / Skin Irrit. 2 H3 Sens. 1 H317 / Aquatic Chronic 2 H411			
	232-288-0					
	8001-61-4		COPAIVA-BALSAM Asp. Tox. 1 H304	5 - 10		

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

## 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:

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#### 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. Vapours form explosive mixtures with air.

### 5.3. Advice for firefighters

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

#### **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. Vapours form explosive mixtures with air.

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. Avoid respiration of swarf. 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 (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:

turpentine, oil INDEX No. 650-002-00-6 / EC No. 232-350-7 / CAS No. 8006-64-2

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TWA: 566 mg/m3; 100 ppm STEL: 850 mg/m3; 150 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: CR (polychloroprene, chloroprene 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 EN ISO 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

	mornation on basic physical and chemical properties							
	Appearance:	Liquid						
	Physical state:	Liquid						
	Colour:	clear						
	Odour:	characteristic						
	Safety relevant basis data		Unit	Method	Remark			
	Flash point:	35	°C	DIN 53213				
	Ignition temperature in °C:	220	°C					
	Lower explosion limit:	0,7	Vol-%					
	Upper explosion limit:	6,1	Vol-%					
	Vapour pressure at 20 °C::	2,27						
	Density at 20 °C::	0,87	g/cm³					
	Water solubility (g/L):	insoluble						
	pH at 20 °C::	-						
	Viscosity at 20 °C::	26 s 3 mm		EN ISO 2431				
	Solvent separation test (%):	< 3	%					
	boiling point in °C at 101,3 kPa	150	°C					
2	Other information:							

## 9.2. Other information:

## **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

## 10.2. Chemical stability

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

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#### 10.3. Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions. Vapours form explosive mixtures with air.

## 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**

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

#### 11.1. Information on toxicological effects

## Acute toxicity

Harmful if swallowed.

Harmful in contact with skin.

Harmful if inhaled.

turpentine, oil oral, LD50, Rat: 5760 mg/kg

#### COPAIVA-BALSAM oral, LD50, Rat: > 5000 mg/kg

dermal, LD50, Rat: > 5000 mg/kg

#### skin corrosion/irritation; Serious eye damage/eye irritation

Causes skin irritation.

Causes serious eye irritation.

turpentine, oil Skin (4 h) Irritating to skin.

## Respiratory or skin sensitisation

May cause an allergic skin reaction.

turpentine, oil

Skin: May cause sensitization by skin contact.

## Specific target organ toxicity

Toxicological data are not available.

#### Aspiration hazard

May be fatal if swallowed and enters airways.

#### 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 .

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			•	

## 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

turpentine, oil

Daphnia toxicity, EC50: 14.1 mg/l (48 h)

### Long-term Ecotoxicity

Toxic to aquatic life with long lasting effects.

turpentine, oil

Fish toxicity, LC50 (96 h)

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

## **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

080111\* waste paint and varnish containing organic solvents or other dangerous substances

#### packaging Recommendation

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste. Send to a collecting point for used paints.

## **SECTION 14: Transport information**

## 14.1. UN number

UN 1866

Resin solution (turpentine) RESIN SOLUTION

(turpentine) Resin solution

(turpentine)

3

Ш

Land transport (ADR/RID): Sea transport (IMDG):

14.2. UN proper shipping name

Air transport (ICAO-TI / IATA-DGR):

### 14.3. Transport hazard class(es)

#### 14.4. Packing group

14.5. Environmental hazards

. <del>.</del> .	Environmental nazards	
	Land transport (ADR/RID)	UMWELTGEFÄHRDEND
	Marine pollutant	p / turpentine

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14.6.	<b>Special precautions for user</b> 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			
		sport (ADR/RID)			
		triction code	D/E		
		port (IMDG)			
147	EmS-No.	t in bulk accordi	F-E, S-E ing to Annex II of Marpol and the IBC Code		
4.7.	not applic				
		N 15: Regulato	ry information		
15 1			nmental regulations/legislation specific for	the substance or mixture	
0.1.	EU legisla				
	VOC-valu VOC-valu	e (in g/L) ISO 118 e (in g/L) ASTM [	390-2: 790	f volatile organic compounds (VOC-guideline).	
		regulations			
	<b>Restrictions of occupation</b> 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				
	Flam. Liq. Acute Tox Acute Tox Acute Tox Asp. Tox. Eye Irrit. 2 Skin Irrit. 2 Skin Sens Aquatic C Abbreviat For abbre chapter R	<ul> <li>4 / H332</li> <li>4 / H312</li> <li>4 / H302</li> <li>1 / H304</li> <li>/ H319</li> <li>/ H315</li> <li>1 / H317</li> <li>hronic 2 / H411</li> <li>tions and acrony</li> </ul>	Flammable liquids Acute toxicity (inhalative) Acute toxicity (dermal) Acute toxicity (oral) Aspiration hazard Serious eye damage/eye irritation skin corrosion/irritation Respiratory or skin sensitisation Hazardous to the aquatic environment yms	Flammable liquid and vapour. Harmful if inhaled. Harmful in contact with skin. Harmful if swallowed. May be fatal if swallowed and enters airways. Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.	
	E.uthow is	formation			

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.