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# Safety data sheet

# according to Regulation (EC) No. 1907/2006

*Printing date: 11.11.2019* 

Version number: 3.00

Revision: 11.11.2019

SECTION 1: Identification of the substance/mixture and of the company/undertaking

<sup>•</sup> 1.1 Product identifier <sup>·</sup> Trade name: HTF <u>Graffex 705 <sup>·</sup></u> **Registration number** This Product is a mixture. REACH Registration Number see chapter 3. All ingredients of this mixture are (pre)registered according to REACH regulation. 1.2 Relevant identified uses of the substance or mixture and uses advised against · Application of the substance / the mixture protective impregnation *The product is intended for the general public.* · Uses advised against No relevant information available. · 1.3 Details of the supplier of the safety data sheet · Manufacturer/Supplier: RMB GmbH Hansmertenweg 87 D-33335 Gütersloh GERMANY Phone: +49 5241 703502 Telefax:+49 5241 703503 <sup>•</sup> Informing department: E-Mail: b.muendkemueller@rmb-solutions.com 1.4 Emergency telephone number: Telephone number of the company in case of emergencies: RMB GmbH

Phone: +49 5241 703502 (during normal office hours)

## SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

 $\cdot$  Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 3 H226 Flammable liquid and vapour.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

· 2.2 Label elements

- · Labelling according to Regulation (EC) No 1272/2008
- The product is labelled according to the CLP regulation.
- · Hazard pictograms



· Signal word Danger

Hazard-determining components of labelling:
<i>Hydrocarbons, C11-C14, isoalkanes, cyclics, &lt;2% aromatics</i>
<i>Hydrocarbons, C11-C13, isoalkanes, &lt;2% aromatics</i>
Hazard statements
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
Precautionary statements
<i>P101</i> If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
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P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

*P331* Do NOT induce vomiting.

P405 Store locked up.

P501 Dispose of contents/container to a household waste recycling centre as hazardous waste except for empty containers which can be disposed of by recycling. Contact your local council for details.

#### • Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.

1.5 % of the mixture consists of component(s) of unknown toxicity.

- Contains 1.5 % of components with unknown hazards to the aquatic environment.
- · 2.3 Other hazards None if used properly.
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.

#### **SECTION 3:** Composition/information on ingredients

· 3.1 Substances This product is a mixture.

· 3.2 Mixtures

• **Description:** Mixture of solvents

#### · Dangerous components:

Dangerous components:		
EC number: 927-285-2	<i>Hydrocarbons, C11-C14, isoalkanes, cyclics, &lt;2%</i>	40-<60%%
Reg.nr.: 01-2119480162-45-XXXX	aromatics	
	Asp. Tox. 1, H304	
CAS: 90622-57-4	<i>Hydrocarbons, C11-C13, isoalkanes, &lt;2% aromatics</i>	15-<25%%
EC number: 920-901-0	Asp. Tox. 1, H304	
Reg.nr.: 01-2119456810-40-XXXX	-	
CAS: 34590-94-8	Dipropylene glycol monomethyl ether (PPG-2 METHYL	5 - < 10%
EINECS: 252-104-2	ETHER)	
Reg.nr.: 01-2119450011-60-XXXX	substance with a Community workplace exposure limit	
CAS: 141-78-6	ethyl acetate	2.5 - < 5%
EINECS: 205-500-4	Flam. Liq. 2, H225	
Reg.nr.: 01-2119475103-46-XXXX	<i>Eye Irrit.</i> 2, <i>H</i> 319; <i>STOT SE</i> 3, <i>H</i> 336	

· SVHC

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of  $\geq 0.1 \%$  (w/w).

#### • Additional information

*Note P: The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7). For the wording of the listed hazard phrases refer to section 16* 

For the wording of the listed hazard phrases refer to section 16.

## **SECTION 4: First aid measures**

• 4.1 Description of first aid measures

· General information

Instantly remove any clothing soiled by the product. Show safety data sheet if possible.

• After inhalation

Supply fresh air.

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If breathing is difficult, give oxygen.

Seek medical treatment in case of complaints. · After skin contact Instantly wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.

- · After eye contact Rinse opened eye for several minutes under running water. If eye irritation persists: Get medical advice/attention.
- · After swallowing Immediately wash out the mouth with water. Do not induce vomiting; instantly call for medical help. Ingestion of the product can cause severe lung injury when aspirated: hospital treatment necessary!
- 4.2 Most important symptoms and effects, both acute and delayed May be fatal if swallowed and enters airways. Repeated exposure may cause skin dryness or cracking.
- · Danger Danger of pneumonia.

• 4.3 Indication of any immediate medical attention and special treatment needed Treat symptomatically and directed to relieving any effects.

## **SECTION 5: Firefighting measures**

· 5.1 Extinguishing media

• Suitable extinguishing agents

CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

- For safety reasons unsuitable extinguishing agents Water with a full water jet.
- · 5.2 Special hazards arising from the substance or mixture
- Can form explosive gas-air mixtures.

Can be released in case of fire: Carbon monoxide (CO) and Carbon dioxide (CO2)

Sulphur dioxide (SO2)

Organic decomposition compounds

• 5.3 Advice for firefighters

## · Protective equipment:

Wear a self-contained breathing apparatus.

Do not inhale explosion gases or combustion gases.

· Additional information

Container explosions may occur under fire conditions. May explode by heat. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Cool endangered containers with water spray jet.

## **SECTION 6:** Accidental release measures

- · 6.1 Personal precautions, protective equipment and emergency procedures Advice for non-emergency personnel: Advice for emergency responders:
- · 6.2 Environmental precautions: Damp down gases/fumes/haze with water spray jet. Prevent spread over a wide area (e.g. by containment or oil barriers). Do not allow product to reach sewage system or water bodies. Inform respective authority in case of product reaches water or sewage system.

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(Contd. of page 3) · 6.3 Methods and material for containment and cleaning up: Cover drains. Collect, bind, and pump off spills. Wipe up with absorbent material (eg. cloth, fleece, sand, diatomite, acid binders, universal binders). Collect in closed and suitable containers for disposal. · 6.4 Reference to other sections See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for information on disposal. **SECTION 7: Handling and storage** · 7.1 Precautions for safe handling Observe label precautions. Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air). Provide adequate ventilation. Make sure that all applicable workplace limits are observed. · Information about protection against explosions and fires: The product forms flammable fumes when heated. Flammable mixtures may be formed in empty containers. Ground and bond container and receiving equipment. Use non-sparking tools. Use explosion-proof [electrical/ventilating/lighting] equipment. Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Protect from heat. · Advices on general occupational hygiene Immediately change contaminated clothing. Preventive skin protection. Wash hands and face after work. Avoid close or long term contact with the skin. Do not inhale gases / fumes / aerosols. • 7.2 Conditions for safe storage, including any incompatibilities · Storage • Requirements to be met by storerooms and containers: *Keep/store only in labeled original container.* Provide solvent resistant, sealed floor. · Information about storage in one common storage facility: Do not store together with: Oxidising agents. Do not store together with: Foodstuffs. • Further information about storage conditions: Store container in a well ventilated position. Store in cool, dry conditions in well sealed containers. · **Recommended storage temperature:**  $+5 \circ C up \text{ to } +20 \circ C$ · Storage class Class 3A: Flammable liquids (flash point below 55 °C). • 7.3 Specific end use(s) See Section 1.2 DE EN (Contd. on page 5)

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8.1 Control parameters	
=	itical values that require monitoring at the workplace:
Hydrocarbons, C11-C14,	isoalkanes, cyclics, <2% aromatics
AGW (Germany)	Long-term value: 600 mg/m³ C9-C15 Aliphaten; 2 (II) TRGS 900 RCP Methode
CAS: 34590-94-8 Dipropy	lene glycol monomethyl ether (PPG-2 METHYL ETHER)
AGW (Germany)	Long-term value: 310 mg/m³, 50 ppm 1(I);DFG, EU, 11
IOELV (European Union)	Long-term value: 308 mg/m³, 50 ppm Skin
CAS: 141-78-6 ethyl aceta	te
AGW (Germany)	Long-term value: 730 mg/m³, 200 ppm 2(I);DFG, EU, Y
IOELV (European Union)	Short-term value: 1468 mg/m³, 400 ppm Long-term value: 734 mg/m³, 200 ppm
Occupational exposure lin	nits of decomposition products:
CAS: 7446-09-5 sulphur a	· · · ·
AGW (Germany)	Long-term value: 2.5 mg/m <sup>3</sup> , 1 ppm 1(I);AGS, Y
IOELV (European Union)	Short-term value: 2.7 mg/m³, 1 ppm Long-term value: 1.3 mg/m³, 0.5 ppm
8.1.2 DNELs No data avai	ilable.
8.1.3 PNECs	
CAS: 141-78-6 ethyl aceta	te
PNEC aquatic, freshwater	0.26 mg/l
PNEC sediment, freshwate	r 1.25 mg/kg dw
PNEC sediment, marine w	ater 0.125 mg/kg dw
PNEC aquatic, marine was	ter 0.026 mg/l
PNEC soil	0.24 mg/kg soil dw
Additional information: T 8.2 Exposure controls Methods for measurement EN 482 and DIN EN 689. 8.2.1 Engineering Control 8.2.2 Personal protective of Breathing equipment:	se, and under normal conditions, breathing protection is not required.
Respiratory protection nec exceeding exposure limit v insufficient ventilation spray application	alues

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(Contd. of page 5) • Recommended filter device for short term use: Respirator with combination filter for vapour/particulate (EN 141). ABEK-P-filter. The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. The measures have to be properly documented. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). • Protection of hands: · By short-term hand contact: Use skin protection cream for preventive skin protection. • By long-term hand contact: Chemical-resistant protective gloves (EN 374). · Material of gloves Nitrile rubber, nitrile latex (NBR) Recommended thickness of the material:  $\geq 0.33$  mm · Penetration time of glove material >480 min *Value for the permeation: Level*  $\leq 6$ The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL Camatril® 730 (full contact), KCL 741 Dermatril® L (splash contact) The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet  $\langle (>, <) \rangle$  supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). • As protection from splashes gloves made of the following materials are suitable: Nitrile rubber, NBR Recommended thickness of the material:  $\geq 0.11$  mm Breakthrough time: 480 min For example KCL 741 Dermatril® L. • Not suitable are gloves made of the following materials: *Leather gloves* Rigid gloves • Eye protection: Safety glasses are not normally required. However, their use is recommended in those cases where splashes may occur when handling the product. Tightly sealed safety glasses according to EN166. · Body protection: Not required at determined application. Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust). • 8.2.3 Limitation and supervision of exposure into the environment See sections 6 and 7. **SECTION 9: Physical and chemical properties** • 9.1 Information on basic physical and chemical properties · General Information

· 9.1.1 Appearance:		
Form:	Fluid	
Colour:	Colourless	
· Smell:	Weak, characteristic	

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Odour threshold:	No data available.
9.1.2 Safety relevant basic data:	
pH-value:	No data available / Not applicable
Change in condition	
Melting point/freezing point:	<-20 °C (*)
Initial boiling point and boiling range:	≥180-≤198 °C (*)
Flash point:	23 °C (EN ISO 13736)
Inflammability (solid, gaseous)	No data available / Not applicable
Ignition temperature:	Not relevant.
Decomposition temperature:	No data available / Not applicable
Self-inflammability:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation of
	explosive air/steam mixtures is possible.
Critical values for explosion:	
Lower:	0.6 Vol % (*)
Upper:	7 Vol % (*)
Oxidising properties	No data available / Not applicable
Steam pressure at 20 °C:	>1 hPa (*)
Density at 20 °C	780 kg/m³ (ISO 387)
Relative density at 20 $^{\circ}C$	0.78 (ISO 15212-1)
Vapour density	No data available / Not applicable
Evaporation rate	No data available / Not applicable
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix
Partition coefficient: n-octanol/water:	No data available / Not applicable
Viscosity:	
dynamic:	Not applicable.
kinematic at 40 °C:	$< 20.5 \text{ mm}^{2}/\text{s}$
Surface tension:	No data available / Not applicable
9.1.3 Data relevant with regard to physical h	pazard
classes (supplemental)	
Corrosiveness to metals	
Conclusion/Classification	Based on available data, the classification criteria are
	not met.
9.2 Other information	*Information refers to the main component.

# SECTION 10: Stability and reactivity

• 10.1 Reactivity See section 10.3.

10.2 Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used and stored according to specifications.

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· 10.3 Possibility of hazardous reactions

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Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised Violent reactions with strong alkalis and oxidizing agents

• 10.4 Conditions to avoid Open flames and other ignition sources.

 $\cdot$  10.5 Incompatible materials:

Strong oxidizing agents

Alkalis (bases, lyes)

Strong acids

• 10.6 Hazardous decomposition products: Decomposition products in case of fire: see section 5.

# SECTION 11: Toxicological information

#### · 11.1 Information on toxicological effects

· Acute toxicity

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

• Hazardous substances:

• Experimental/calculated	data:	
Hydrocarbons, C11-C14	, isoalkanes, cyc	lics, <2% aromatics
Acute oral toxicity	LD50	>5,000 mg/kg bw (rat) (OECD 423)
Acute dermal toxicity	LD50	>3,160 mg/kg bw (rabbit) (OECD402)
Acute inhalation toxicity	LC50/4h/vapor	>4,951 mg/l (rat) (OECD403)
CAS: 90622-57-4 Hydro	carbons, C11-C	13, isoalkanes, <2% aromatics
Acute oral toxicity	LD50	>5,000 mg/kg bw (rat) (OECD 401)
Acute dermal toxicity	LD50	>2,000 mg/kg bw (rat) (OECD402)
Acute inhalation toxicity	LC 50	(LD50 greater than saturated vapour press) (Classification criteria not met)
CAS: 34590-94-8 Diprop	oylene glycol mo	nomethyl ether (PPG-2 METHYL ETHER)
Acute oral toxicity	LD50	>5,000 mg/kg bw (rat) (OECD 401)
Acute dermal toxicity	LD50	>2,000 mg/kg bw (rabbit) (OECD402)
Acute inhalation toxicity	LC50/4h/vapor	55-60 mg/l (rat) (OECD403)
CAS: 141-78-6 ethyl ace	tate	
Acute oral toxicity	LD50	4,934 mg/kg bw (rat) (OECD 401)
Acute dermal toxicity	LD50	20,000 mg/kg bw (rabbit) (No guideline followed)
Acute inhalation toxicity	LC50/4h/vapor	>20 mg/l (conversion value)
· Product/Mixture:	•	
• Acute toxicity estimate (A	ATE(MIX)) - Ca	lculation method:
Fleckstop		
Acute oral toxicity	- (Not relevant	
Acute dermal toxicity - (Not relevant)		
Acute inhalation toxicity	- (Not relevant	
· Classification:		
Fleckstop		
No acute toxicity (Class	ification criteria	not met)
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(Contd. of page 8) · Skin corrosion/irritation · Hazardous substances: · Experimental/calculated data: Hydrocarbons, C11-C14, isoalkanes, cyclics, <2% aromatics Result/evaluation: No irritation IUCLID (Classification criteria not met) (Labelling with EUH066) CAS: 90622-57-4 Hydrocarbons, C11-C13, isoalkanes, <2% aromatics Result/evaluation: No irritation IUCLID (Classification criteria not met) (Labelling with EUH066) CAS: 34590-94-8 Dipropylene glycol monomethyl ether (PPG-2 METHYL ETHER) Result/evaluation: No irritation (rabbit) (OECD404) CAS: 141-78-6 ethyl acetate Result/evaluation: No irritation (Classification criteria not met) (Weight of evidence approach) · Product/Mixture: · Classification: Fleckstop *Not irritating (Classification criteria not met) (Additivity principle)* · Serious eye damage/irritation · Hazardous substances: • Experimental/calculated data: Hydrocarbons, C11-C14, isoalkanes, cyclics, <2% aromatics *Result/evaluation:* Not irritating (rabbit) (OECD 405) CAS: 90622-57-4 Hydrocarbons, C11-C13, isoalkanes, <2% aromatics Result/evaluation: Not irritating (rabbit) (OECD 405) CAS: 34590-94-8 Dipropylene glycol monomethyl ether (PPG-2 METHYL ETHER) *Result/evaluation: Not irritating* (rabbit) (no guideline available) CAS: 141-78-6 ethyl acetate Result/evaluation: Eye irritation, Category 2 (Harmonised (legal) classification.) (rabbit) (OECD 405) Not irritating · Product/Mixture: · Classification: Fleckstop Not irritating (Classification criteria not met) (Additivity principle) · Respiratory or skin sensitisation · Hazardous substances: · Experimental/calculated data: Hydrocarbons, C11-C14, isoalkanes, cyclics, <2% aromatics Result/evaluation: Does not cause skin sensitisation (guinea pig) (OECD406) Does not cause respiratory sensitization (Not classified (data lacking)) (no study available) CAS: 90622-57-4 Hydrocarbons, C11-C13, isoalkanes, <2% aromatics Result/evaluation: Does not cause skin sensitisation (guinea pig) (OECD406) (Not relevant) (no study available) Does not cause respiratory sensitization

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CAS: 34590-94-8	Dipropylene glycol monomethyl ether (H	(Contd. of pa PG-2 METHYL ETHER)
	Does not cause skin sensitisation	(experience with human exposure) (no guideline available)
	Does not cause respiratory sensitization	
CAS: 141-78-6 eth	yl acetate	•
Result/evaluation:	Does not cause skin sensitisation	(guinea pig) (OECD406)
	Does not cause respiratory sensitization	(Not relevant) (no study available)
Product/Mixture:		•
Classification:		
Fleckstop		
Not sensitizing (C	Classification criteria not met) (assessmer	t based on ingredients)
Experience with h	uman exposure: No data available.	
lungs), severe lung Repeated exposure	damage, respiratory failure and even de may cause skin dryness or cracking.	
Germ cell mutager Product/Mixture: Classification:	inogenity, mutagenicity and toxicity for nicity e data, the classification criteria are not r	
Carcinogenicity Product/Mixture: Classification: Based on available	e data, the classification criteria are not r	net.
Reproductive toxic Product/Mixture: Classification: Based on available	<b>rity</b> e data, the classification criteria are not r	net.
STOT-single expo Product/Mixture: Classification:: Based on available	s <b>ure</b> e data, the classification criteria are not r	net.
STOT-repeated ex Product/Mixture: Classification: Based on available	<b>posure</b> e data, the classification criteria are not r	net.
Aspiration hazard Product/Mixture:		

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#### **SECTION 12: Ecological information** · 12.1 Toxicity The ecotoxicological properties of this mixture are determined by the ecotoxicological properties of the single components (see section 3). • Aquatic toxicity: · Hazardous substances: · Experimental/calculated data: Hydrocarbons, C11-C14, isoalkanes, cyclics, <2% aromatics NOELR/21d 1 mg/l (Daphnia magna (water flea)) (OECD 211) LL50 / 96 h >1,000 mg/l (rainbow trout (Oncorhynchus mykiss)) (OECD 203) EL50 / 72 h >1,000 mg/l (Pseudikirchneriella subcapitata) (OECD 201) CAS: 90622-57-4 Hydrocarbons, C11-C13, isoalkanes, <2% aromatics EC50/48 h >1,000 mg/l (Daphnia magna (water flea)) LC50/96 h >1,000 mg/l (rainbow trout (Oncorhynchus mykiss)) CAS: 34590-94-8 Dipropylene glycol monomethyl ether (PPG-2 METHYL ETHER) *EC50/72 h* >1,000 mg/l (Pseudikirchneriella subcapitata) (OECD 201) LC50/96 h >1,000 mg/l (Poecilia reticulata (guppy)) (OECD 203) CAS: 141-78-6 ethyl acetate 2,900 mg/l (Pseudomonas putida (bacteria)) EC10/16h EC50/48 h 717 mg/l (Daphnia magna (water flea)) LC50/96 h 230 mg/l (Pimephales promelas (fathead minnow)) · Product/Mixture: · Classification: Fleckstop *No aquatic toxicity (Classification criteria not met) (Additivity principle)* · 12.2 Persistence and degradability · Hazardous substances: Hydrocarbons, C11-C14, isoalkanes, cyclics, <2% aromatics Persistence (No data available) Biodegradability 77.6 % (28 d) (OECD 301 F Manometric Respirometry Test) CAS: 90622-57-4 Hydrocarbons, C11-C13, isoalkanes, <2% aromatics (No data available) Persistence Biodegradability 42 % (28 d) (OECD 301 F Manometric Respirometry Test) CAS: 34590-94-8 Dipropylene glycol monomethyl ether (PPG-2 METHYL ETHER) Persistence (No data available) Biodegradability 96 % (28 d) (OECD 301 F Manometric Respirometry Test) CAS: 141-78-6 ethyl acetate Persistence (No data available) Biodegradability 100 % (28 d) (OECD 301 E) Product/Mixture:

· Result / evaluation:

The product is easily biodegradable.

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· 13.1.2 Appropriate disposal / Package:

· 13.1.2 Recommendation:

Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

UN-Number	
ADR/RID/ADN, IMDG, IATA	UN1993
14.2 UN proper shipping name	
ADR/RID/ADN	UN1993 FLAMMABLE LIQUID, N.O.S. (ETHYL
IMDC LATA	ACETATE) ELAMMARIE LIQUID, N.O.S. (ETUVL ACETATE)
IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (ETHYL ACETATE)
14.3 Transport hazard class(es)	
ADR/RID/ADN	
2	
Class	3 (F1) Flammable liquids.
Label	3
IMDG, IATA	
Class	3 Flammable liquids.
Label	3
14.4 Packing group	
ADR/RID/ADN, IMDG, IATA	III
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user	Warning: Flammable liquids.
Kemler Number:	30
EMS Number: Stowage Category	F-E, <u>S-E</u> A
14.7 Transport in bulk according to Ann Marpol and the IBC Code	<i>ex II of</i> Not applicable.
-	
Transport/Additional information: ADR/RID/ADN	
Excepted quantities (EQ):	El
Limited quantities (LQ)	5L
Excepted quantities $(EQ)$	Code: E1
	Maximum net quantity per inner packaging: 30 ml
Transport estagory	Maximum net quantity per outer packaging: 1000 ml 3
Transport category Tunnel restriction code	D/E

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· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN ''Model Regulation'':	UN 1993 FLAMMABLE LIQUID, N.O.S. (ETHYL ACETATE), 3, III

#### **SECTION 15: Regulatory information**

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- European Regulations and Directives:
- · Directive 2010/75/EU on industrial emissions: VOC-Content:

· Directive 2004/42/EC on the limitation of emissions of volatile organic compounds: not regulated

- Regulation (EU) No 98/2013 on the marketing and use of explosives precursors: Not regulated.
- · Regulation (EU) No. 528/2012 on biocides: Not regulated.
- Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]:
- · Seveso category P5c FLAMMABLE LIQUIDS
- $\cdot$  Qualifying quantity (tonnes) for the application of lower-tier requirements 5000 t
- $\cdot$  Qualifying quantity (tonnes) for the application of upper-tier requirements 50000 t
- REGULATION (EU) 2019/1021 on persistent organic pollutants (POP) Not regulated
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- Regulation (EU) No 649/2012 Not regulated.

#### · National regulations

Observe in addition any national regulations!

- Act on the Protection Against Hazardous Substance (Chemicals Act- ChemG)
- Poisoning information ordinance ChemGiftInfoV
- Ordinance on Hazardous Substances GefStoffV German Food and Feed Code (LFGB)
- Act on making products available on the market (Prod
- Act on making products available on the market (Product Safety Act)
- Information about limitation of use: Observe restrictions to employment for juveniles.
- Observe employment restrictions for pregnant and nursing mothers.
- Ordinance on Hazardous Substances (12. BImSchV):
- P5c FLAMMABLE LIQUIDS Flammable liquids, Categories 2 or 3 not covered by P5a and P5b
- · Solvents Regulation (31st BImSchV): See information on Directive 2010/75/EU.
- Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.

• 15.2 Chemical safety assessment:

For the following substances of this mixture a chemical safety assessment has been carried out: Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2 % aromatics [EC nr. 919-857-5] hydrocarbons, C11-C13, isoalkanes, <2 % aromatics ethyl acetate

#### **SECTION 16: Other information**

• 16.1 Indication of changes:

*This data sheet contains changes from the previous version in section(s): 1,3,4,6,7,8,9,11,12,15,16* 

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(Contd. of page 14) • Replaces version of: 28.08.2017(2.0) · 16.2 Relevant R-, H- and EUH-phrases (number and full text): H225 Highly flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. • 16.3 Training hints Provide adequate information, instruction and training for operators. • 16.4 Sources of key data used to compile the data sheet: Data arise from reference works and literature. Raw material SDS *CEFIC ERICards Database (http://www.ericards.net)* Hazardous materials information system GisChem (www.gischem.de) The Hazardous Substances Database of Countries (Germany) (GDL) (http://www.gefahrstoff-info.de) *TOXNET (http://toxnet.nlm.nih.gov/index.html)* International Chemical Safety Cards (ICSC) (http://www.ilo.org/dyn/icsc/showcard.home) CheLIST (http://chelist.jrc.ec.europa.eu/) Classification & labelling inventory of ECHA (http://echa.europa.eu/clp/c l inventory en.asp) eChemPortal (http://www.echemportal.org/echemportal/index?pageID=0&request locale=en) GESTIS database (www.dguv.de/bgia/de/gestis/stoffdb/index.jsp) Registered substances by ECHA (http://echa.europa.eu/en/information-on-chemicals/registered-substances) 16.5 Additional Information: The particulars given in the Material Safety Data Sheet only apply to the described product in connection with its appropriate utilization. These particulars are based on the latest state of our knowledge and information. In particular, they serve the purpose of describing our product under the aspect of hazards caused by such product and pertaining safety actions. They do not constitute any guarantee of product quality and/or quality features. The particulars given in this Material Safety Data Sheet are required in accordance with article 31 and annex II of the Regulation (EC) No 1907/2006. Classification for mixtures and used evaluation method according to regulation (EC)1207/2008 [CLP]: Flammable liquids Bridging principles Aspiration hazard On basis of test data · 16.6 Any Abbreviations and acronyms used in this document: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) AGW: Occupational Exposure Limits Asp. Tox. 1: Aspiration hazard – Category 1 CAS: Chemical Abstracts Service (division of the American Chemical Society) CLP: Classification, Labelling and Packaging of substances and mixtures DIN: Deutsches Institut für Normung (German Institute for Standardization) DNEL: Derived No-Effect Level EU: European Union EC: European Community EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical EC50: Effective concentration, 50 percent Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals IOELV: Indicative Occupational Exposure Limit Values Flam. Liq. 2/3: Flammable liquids – Category 2/3 PBT: Persistent Bioaccumulative and Toxic (Contd. on page 16) DE EN-

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(Contd. of page 15) REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals LC50: Lethal concentration, 50 percent DECD: Organisation for Economic Cooperation and Development RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) PNEC: Predicted No-Effect Concentration (REACH) SVHC: Substance of Very High Concern STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 vPvB: very Persistent and very Bioaccumulative TRGS: Technische Regeln für Gefahrstoffe (Technical Rules for Dangerous Substances, BAuA, Germany) VOC: Volatile Organic Compounds (USA, EU)

\*\* *Data compared to the previous version altered.* Data changed compared with the previous version.