According to regulation (EC) No. 1907/2006 (REACH)

70100 Citrus Turpentine



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1.	Identification of the S	ubstance/M	lixture and of the Company/Undertaki	ng	
1. 1.	Product Identifier				
	Product Name:		Citrus Turpentine		
	Article No.:		70100		
	UFI:				
1. 2.	Relevant identified Uses of the	e Substance o	r Mixture and Uses advised against		
	ldentified uses:		Industrial application Use in mixtures. Formulation of fragrance products, scente Production of cleaning and maintaining pr Formulation of cosmetics. Formulation of solvents. Formulation of chemicals for the construc Industrial application of coatings and pain Industrial application in paper, paper prod footwear, leather products, textiles.	oducts. tion industry t by spraying	g.
	Uses advised against:				
1. 3.	Details of the Supplier of the	Safety Data Sh	eet (Producer/Importer)		
	Company:		Kremer Pigmente GmbH & Co. KG		
	Address:		Hauptstr. 41-47, 88317 Aichstetten, Germ	any	
	Tel./Fax.:		Tel +49 7565 914480, Fax +49 7565 1600	3	
	Internet:		www.kremer-pigmente.com		
	EMail:		info@kremer-pigmente.com		
	Importer:				
1. 4.	Emergency No.				
	Emergency No.:		+49 7565 914480 (Mon-Fri 8:00 - 17:00)		
1. 4. 2	Poison Center:				
2.	Hazards Identification	1			
2. 1.	Classification of the Substan	ce or Mixture			
	Classification according to (EC) No. 1272/2008 (CLP				
		H226 Cat.: 3 H304 Cat.: 1 H315	 Flammable liquids, hazard category 3 Aspiration hazard, hazard category 1 Skin irritation, hazard category 2 Skin sensitization, hazard category 1 Hazardous to the aquatic environment, ch Flammable liquid and vapour. May be fatal if swallowed and enters airwa Causes skin irritation. 		d category 2
		Cat.: 2			

May cause an allergic skin reaction.

H317

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		Cat.: 1				
		H411	Toxic to aquatic li	fe with long lasting effects	i.	
		Cat.: 2		0 0		
	Possible Environme	ental Effects [.]				
			See Section 12.			
. 2.	Label Elements					
	Classification accor (EC) No. 1272/2008					
	Hazard designation					
			~			
			she	GHS02		
			×			
				GHS07		
			\sim			
				GHS08-2		
			X			
			YK.	GHS09		
				GH209		
			\sim			
	Signal word:					
	0		Danger			
	Hazard designation		-			
		H226	Flammable liquid	and vanour		
		H304		allowed and enters airway	/S	
		H315	Causes skin irritat	•	0.	
		H317		ergic skin reaction.		
		H411	•	fe with long lasting effects	.	
	Sofaty designation:			0 0		
	Safety designation:	P102	Keep out of reach	of children		
		P210	•	neat/ sparks/ open flames	/ hot surfa	res No
		1210	smoking.			
		P241	Use explosion-pro	oof electrical/ventilating/lig	hting equip	oment.
		P262	Do not get in eyes	s, on skin, or on clothing.		
		P273	Avoid release to t	he environment.		
		P280	Wear protective g	loves/ clothing/ eye/ face	protection.	
		P301+P310	If swallowed: Imm	nediately call a poison cen	ter or phys	ician.
		P303+P361+P353		: Take off immediately all		
		P331	Do not induce vor	niting.		
		P405	Store locked up.			
		P501	Dispose of conter	nts/ container according to	regional, i	national and

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Citrus Turpentine 70100 Page 3 Revised edition: 25.02.2022 Version: 7.0 Printed: 01.03.2022 Hazardous components for labelling: Contains Citrus Turpentine 2.3. Other Hazards Vapors can cause an explosive mixture with air. Materials impregnated with oil may spontaneously combust after a long induction period due to gradual exothermic reaction with oxygen. 3. **Composition/Information on Ingredients** 3.1. Substance 3.2. Mixture Chemical Characterization: Orange, sweet, extract, contains > 93 % Limonene Information on Components / Hazardous Ingredients: > 93 % CAS-Nr: 5989-27-5 D-Limonene (H226-304-315-317-400-412) EINECS-Nr: 227-813-5 EC-Nr: Linalool; 3,7-Dimethyl-1,6-octadien-3-ol (H315-< 1 % CAS-Nr: 78-70-6 317-319); REACH Reg. No. 01-2119474016-42-EINECS-Nr: 201-134-4 XXXX EC-Nr: Additional information: 4. **First Aid Measures** 4.1. **Description of the First Aid Measures** General information: Take person away from hazardous area. Remove contaminated clothes immediately. After inhalation: In case of unconsciousness place patient stable in side position for transportation. Supply fresh air. Consult physician if symptoms persist. Oxygen therapy in case of impaired breathing. After skin contact: Remove contaminated clothing. Wash off immediately with plenty of water and soap. Do not use organic solvents. After eye contact: Rinse open eyes with plenty of water for at least 15 minutes. Consult physician. After ingestion: Rinse mouth with water and drink plenty of water. Do not induce vomiting. Consult physician immediately. Risk of aspiration! In case of spontaneous vomiting, bring unconsciousness person in

a stable side position.

Most important Symptoms and Effects, both Acute and Delayed

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10100	Citrus Turpentine			
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4. 2.			Filited.	01.03.2022
T. Z.	Symptoms:			
	Symptoms.	Skin contact: causes skin irritation.	Can cause allergio	c skin
		reactions.		
		Swallowing: may be fatal if swallow system.	led and enters the	respiratory
	Effects:			
4. 3.	Indication of any Immediate Medical Attent	ion and special Treatment needed		
	Treatment:			
		Treat symptomatically.		
5.	Fire-Fighting Measures			
5. 1.	Extinguishing Media			
	Suitable extinguishing media:			
		Foam, carbon dioxide (CO2), exting jet.	guishing powder, w	/ater spray
	Unsuitable extinguishing media:	,		
		Water with full jet.		
5. 2.	Special Hazards arising from the Substance	e or Mixture		
	Special hazards:			
		Fluid and vapors are highly flamma		
		In case of fire: formation of carbon		(ide.
		Fumes can form an explosive mixt The vapor is heavier than air, sprea		nd and
		distant ignition is possible.		
		Risk of bursting of closed contained	rs due to strong he	ating.
5. 3.	Advice for Firefighters			
	Protective equipment:	Wear self-contained respiratory pro	atactiva davica and	f.,
		protective gear.	Diective device and	Tull
	Further information:			
		Avoid contamination of sewage sys	stem, open water w	ays and
		ground water. Cool exposed containers with wate	er mist.	
6.	Accidential Release Measures			
6. 1.	Personal Precautions, Protective Equipmen	nt and Emergency Procedures		
	Personal precautions:			
	· · · · · · · · · · · · · · · · · · ·	Wear appropriate protective equipr	ment. Keep spectat	ors away.
		Provide adequate ventilation. Keep	•	s of ignition.
	E. L. M. H. B. M.	Do not inhale aerosol/fumes/vapors	S.	
6. 2.	Environmental Precautions			
	Environmental precautions:	Provent contemination of soils des	ing and authors we	tor
		Prevent contamination of soils, dra Contact local authorities if product		
				xt page: {

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6. 3.	Methods and Material for Containment and	Cleaning Up		
	Methods and material:			
		Contain with absorbent material (sand universal absorbent, Oil Dri) and dispo		
6. 4.	Reference to other Sections			
		Protective clothing, see Section 8.	1	
		See Section 13 for information on disp	osal.	
7.	Handling and Storage			
7. 1.	Precautions for Safe Handling			
	Instructions on safe handling:			
		Keep containers tightly closed.		
		Provide adequate ventilation.		
		Avoid contact with eyes and skin.		
	Hygienic measures:			
		Take off contaminated clothing immed	-	
		Do not inhale gas/fumes/vapours/aero		
		Keep away from foodstuffs and drinks during work. Wash hands before brea		
7. 2.	Conditions for Safe Storage, including any I	ncompatibilities		
	Storage conditions:			
		Store containers in a well ventilated lo		
		Store in tightly sealed containers in a d	dry and cool roc	om.
		Protect from direct exposure to light. Protect against heat.		
	Requirements for storage areas and	r folect against fleat.		
	containers:			
		Store the product in the original contai	ner.	
		Store in a room with a solvent-proof flo	oor.	
	Information on fire and explosion protection:			
		Do not store together with: strong acia	ls and alkalis.	
		Do not store together with: oxidants.		
		Vapors may form an explosive mixture		'aka
		Keep away from sources of ignition - c measures to prevent electrostatic disc		ake
	Storage class:			
		3; Flammable liquids (TRGS 510)		
7.0	Further Information:			
7. 3.	Specific End Use(s)			
	Further information:			
		No information available.		

8. **Exposure Controls/Personal Protection**

8.1. Parameters to be Controlled

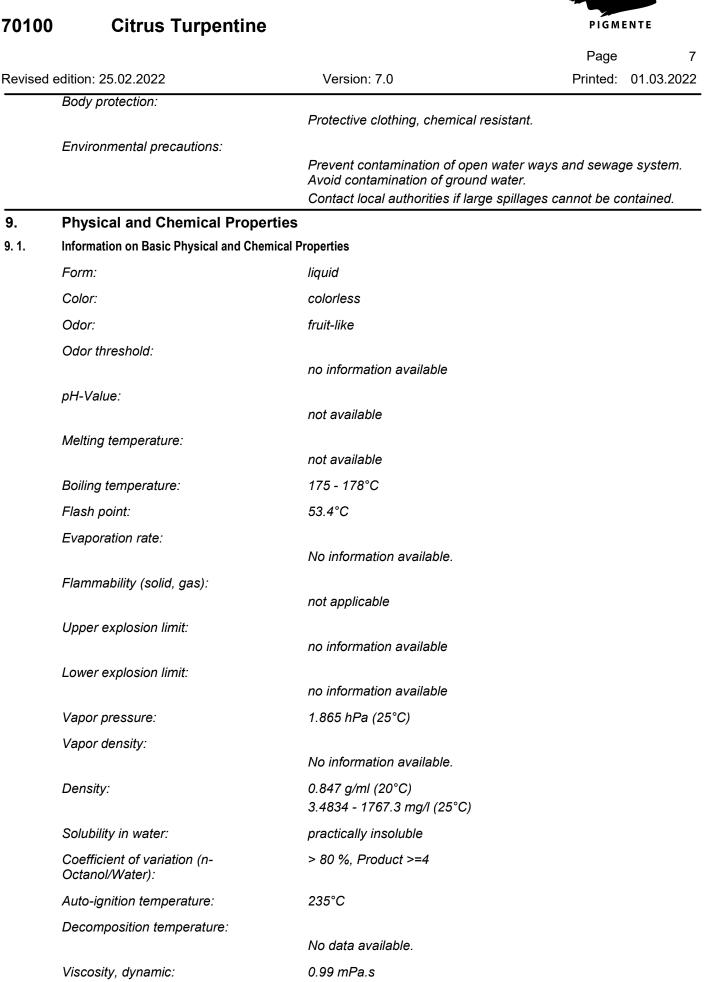
Parameters to be controlled (DE):

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		Limonen (CAS 5989-27-5), TWA: 28 mg/m3, 5 ppm (long-te value); 112 mg/m3, 20 ppm (short-term value)	rm
	Parameters to be controlled:		
	Derived No-Effect Level (DNEL):		
		8.89 mg/kg bw/d (worker, skin contact, long-term exposure - systemic effects)	
		185.8 µg/cm2 (worker, skin contact, short-term exposure - lc effects)	
		31.1 mg/m3 (worker, inhalation, long-term exposure - system effects)	
		4.44 mg/kg bw/d (consumer, swallowing/skin contact, long-to exposure - systemic effects)	
		92.9 μg/cm2 (consumer, skin contact, short-term exposure - effects)	
		7.78 mg/m3 (consumer, inhalation, long-term exposure - sys effects)	temic
	Predicted No-Effect Concentration (PNEC):		
		Fresh water: 5.4 μg/l	
		Sea water: 0.54 μg/l	
		Fresh water sediment: 1.3 mg/kg	
		Sea water sediment: 0.13 mg/kg	
		Sewage treatment system (STP): 2.1 mg/l Soil: 0.261 mg/kg	
	Additional Information:		
8. 2.	Exposure Controls		
	Technical protective measures:		
		Provide adequate ventilation.	
	Personal Protection		
	General protective measures:		
		Remove contaminated clothing immediately.	
		Do not inhale gas/fumes/vapor/aerosol.	
		Avoid contact with eyes and skin.	
		Keep away from foodstuffs and drinks. Do not eat, drink or s during work. Wash hands before breaks and at the end of w	
	Respiratory protection:		
		Respiratory equipment required in case of insufficient ventila filter combination type A-P2.	ition,
	Hand protection:		
		Protective gloves	
		Protective gloves should be changed regularly, especially at intensive contact with the product.	ter
	Protective glove material:		
		Nitrile rubber (> 480 min, 0.11 mm).	
	Eye protection:		
		Tightly fitting safety goggles (EN 166).	• 7

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	Explosive properties:	not available	
	Oxidizing properties:		
	Oxidizing properties.	none	
	Bulk density:		
		not applicable	
9. 2.	Further Information		
	Solubility in solvents:		
	Viscosity, kinematic:	1.17 mm2/s	
	Burning class:		
	Solvent content:		
	Solid content:		
	Particle size:		
	Other information:		
0.	Stability and Reactivity		
0.1.	Reactivity		
		Flammable liquid and vapor.	
0.2.	Chemical Stability		
0.0	Descibility of Heneralays Desctions	Stable if used according to specifica	itions.
10.3.	Possibility of Hazardous Reactions	Formation of explosive vapor-air-mix Spontaneous ignition is possible afte clothes, textiles or similar materials.	er contact mit contaminated
0.4.	Conditions to Avoid		
	Conditions to avoid:		
		Avoid heat, open fire and other ignit Avoid direct sunlight.	ion sources.
	Thermal decomposition:		
		No data available.	
0.5.	Imcompatible Materials	Strong acids, strong bases and stro	na oxidizina agents
0.6.	Hazardous Decomposition Products		ng oxidizing agents.
		In case of fire: formation of carbon c and vapors.	xides and other toxic gases
0.7.	Further Information		
1.	Toxicological Information		
1. 1.	Information on Toxicological Effects		
	Acute Toxicity		
	LD50, oral:	> 5000 mg/kg (rat)	
		Repeated dose toxicity:	

LOAEL: 1000 mg/kg bw/d (mouse)

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	LD50, dermal:	> 5000 mg/kg (rabbit)	
	LC50, inhalation:		
		No information available.	
	Primary effects		
	Irritant effect on skin:		
		May cause allergic reactions.	
	Irritant effect on eyes:		
		Non-irritating to eyes (rabbit; OECD 405	5)
	Inhalation:		
		No information available.	
	Ingestion:		
		No information available	
	Sensitization:		
		May cause sensitization by skin contact	
	Mutagenicity:		fiel on mutanania
		Does not contain any component classi	ned as mutagenic.
	Reproductive toxicity:	Doos not contain any component classi	fied as taxis for
		Does not contain any component classi reproduction.	
	Carcinogenicity:		
	C	Does not contain any component classi	fied as carcinogenic.
	Teratogenicity:		
		NOAEL: 591 mg/kg bw/day (rat/mouse)	: not teratogenic
		Not teratogenic (rabbit)	
		NOAEL: 250 mg/kg bw/day (maternal)	oontal)
		NOAEL: 1000 mg/kg bw/day (developm	iciiidi)
	Specific target organ toxicity (STOT):	Single exposure: the substance or mixtu	ure is not classified as
		specific target organ toxicant.	
		Repeated exposure: the substance or n specific target organ toxicant.	nixture is not classified as
	Additional toxicological information:		
		Aspiration toxiciity: may be fatal if swall	owed and enters airways.
12.	Ecological Information		
12. 1.	Aquatic Toxicity		
	Fish toxicity:		
		LC50: 0.7 mg/l (96h, Pimephales prome	elas; OECD 203)
	Daphnia toxicity:		
		EC50: 0.67 mg/l (48h, Daphnia magna;	OECD 202)
	Bacteria toxicity:		
		not determined	
	Algae toxicity:		next page: 10

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12. 2.	Development and Desvedability	EIC50. 150 IIIg/I (7211, Desilioc	desmus subspicatus; OECD 201)
12.2.	Persistency and Degradability	72 - 83 4 % (28d) [:] readily biode	egradable (Method: OECD 301B)
12. 3.	Bioaccumulation		
-		BCF: 1.502 - 2.597	
		typically 13% orange oil (citrus	,,
		Bioconcentration factor (BCF; I orange oil (citrus dulcis)): 261 -	hydrocarbon terpene, typically 83% - 395
12. 4.	Mobility		
		logKow: >= 4	
12. 5.	Results of PBT- und vPvP Assessment	This substance is not allocation	d og DRT (porgistant
		This substance is not classified bioaccumulative, toxic), nor as bioaccumulative).	
12. 6.	Other Adverse Effects		
	Water hazard class:		
		2 (German Regulation) (Asses	sment by list): hazardous.
	Behaviour in sewage systems:		
	Further ecological effects:		
	5	Do not let product enter waterv	vays or sewage system.
		Very toxic for water organisms effects in the aquatic environm	. May cause long-term adverse ent.
	AOX Value:		
13.	Disposal Considerations		
13. 1.	Waste Treatment Methods		
	Product:		
		Product must be incinerated wi	ith a regulatory approval.
	European Waste Code (EWC):		
		140603* - Other solvents and s	solvent mixtures
		* = Proof required for disposal	
	Uncleaned packaging:		
		Dispose of according to official	local regulations.
	Waste Code No.:		
14.	Transport Information		
14. 1.	UN Number		
	ADR, IMDG, IATA	2319	
14. 2.	UN Proper Shipping Name		
	ADR/RID:	TERPENKOHLENWASSERST	OFFE, N.A.G. (Orangenterpene)
	IMDG/IATA:	TERPENE HYDROCARBONS	, N.O.S. (Orange terpene)
14. 3.	Transport Hazard Classes		
	ADR Class:	3	
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	Hazard no.:	3			
	Classification code:	F1			
	Tunnel restriction code:	D/E			
	IMDG Class (sea):	3			
	Hazard no.:	3			
	EmS No.:	F-E, S-D			
	IATA Class:	3			
	Hazard no.:	3			
14. 4.	Packaging Group				
	ADR/RID:	<i>III</i>			
	IMDG:	<i>III</i>			
	IATA:	<i>III</i>			
14. 5.	Environmental Hazards				
		Labelling according 5.2.1.8 ADR/R Labelling according 5.2.1.6.3 IMD Classification as environmentally h IMDG: yes	G: fish and tree pazardous according	g 2.9.3	
44 G	Special Drace stiene for Lleer	Labelled with "P" according 2.10 II	MDG: yes		
14. 6.	Special Precautions for User	not applicable			
14. 7.	Transportation in Bulk according to Annex II o	of MARPOL 73/78 and IBC-Code IMDG: not applicable			
14. 8.	Further Information				
15.	Regulatory Information				
15. 1.	Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture				
	Water hazard class:				
		2, hazardous for water (German R	egulation)		
	Local regulations on chemical accidents.				
		Seveso-III Directive (2012/18/EU):	P5a and E2		
	Employment restrictions:	The employment restrictions for ex accordance with the Maternity Pro observed.			
		The employment restrictions for you the Youth Employment Protection			
	Restriction and prohibition of application.	:			
	Technical instructions on air quality:				
		5.2.5.: Organic substances, class 5.2.5.: Organic substances: m>=0.		ng/m3	
15. 2.	Chemical Safety Assessment	A Chemical Safety Assessment ha		for this	

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		product.		
15. 3.	Further Information			
		VOC-Content: 100 Wt-% = 847	g/l	
16.	Other Information			
		This product should be stored, handled and used in accordanc with good hygiene practices and in conformity with any legal regulations. This information contained herein is based on the present state of knowledge and is intended to describe our pro from the point of view of safety requirements. It should be therefore not be construed as guaranteeing specific properties		y legal d on the e our product d be