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1.	Identification of the	Substance/Mi	ixture and of the Company/Undertaki	ng	
1. 1.	Product Identifier				
	Product Name:		Acetic Acid 60 %		
	Article No.:		64550		
1. 2.	Relevant identified Uses of	the Substance or	Mixture and Uses advised against		
	Identified uses:				
			Chemical for different applications. Solvent. Intermediate product for organic synthese	es.	
	Uses advised against:				
1. 3.	Details of the Supplier of the Safety Data Sheet (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 1606	5	
	Internet:		www.kremer-pigmente.de		
	EMail:		info@kremer-pigmente.de		
	Importer:				
1.4.	Emergency No.				
	Emergency No.:		+49 7565 914480 (Mon-Fri 8:00 - 17:00)		
2.	Hazards Identificatio	n			
2. 1.	Classification of the Substa	nce or Mixture			
	Classification according to EC				
	Regulation 1272/2008		Skin corrosion, hazard category 1B		
		H314	Corrosive to metals, hazard category 1 Causes severe skin burns and eye damage	A	
		Cat.: 1B		<i>j</i> C.	
		H318	Causes serious eye damage.		
		Cat.: 1			
	Classification according to EC Regulation No. 67/548 or No. 1999/45				
	Caustic (C)	R34	Causes burns.		
	Safety Phrases:				
	Possible Environmental	Effects:			
2. 2.	Label Elements				
	Classification according Regulation 1272/2008	to EC			
	Hazard designation:				

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			THE REAL				
			$\mathbf{\vee}$				
	Signal word:		_				
			Danger				
	Hazard designation						
		H314 H318	Causes severe skin burns a Causes serious eye damag				
			Causes senous eye damag	e.			
	Safety designation:		Maar protoctive claves/ also	this s/ suc/face protection			
		P280 P303+P361+P353	Wear protective gloves/ clo If on skin (or hair): Take off Rinse skin with water/show	immediately all contaminated clothing			
		P305+P351+P338		with water for several minutes. Remov			
	P310		Immediately call a poison center or physician.				
		P405	Store locked up.				
		P501	Dispose of contents/ contain international regulations.	ner according to regional, national and			
	Hazardous compor	ents for labelling:	Acetic acid				
2. 3.	Other Hazards						
-			Not applicable.				
3.	Composition/Inf	ormation on Ingre	dients				
3. 1.	Substance						
3. 2.	Mixture						
	Chemical Characte	Chemical Characterization:					
	Hazardous Ingredie	ents:					
		-35; H226-314); REA	CH-Nr. 60 %	CAS-Nr: 64-19-7			
	01-2119475328-30	-XXXX		EINECS-Nr: 200-580-7			
				EC-Nr: 607-002-00-6			
	Additional informati	on:					
4.	First Aid Measur	es					
4. 1.	Description of the First	st Aid Measures					
	General information	ו:					
			Remove contaminated cloth	•			
			Take person away from haz	zardous area.			
	After inhalation:						
			complaints or unconsiousne	l give artificial respiration. In case of ess consult a physician. In case of tient stable in side position for			
	After skin contact:						
			Remove contaminated cloth	hing immediately. Wash off immediatel			

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		with plenty of water and soap.	
		Get medical attention.	
	After eye contact:		
		Rinse open eyes with plenty of w Consult physician.	ater for at least 15 minutes.
	After ingestion:		
		Rinse mouth with water and drink	c plenty of water.
		Immediately get medical help.	
		Do not induce vomiting.	
		Risk of perforation!	
4. 2.	Most important Symptoms and Effects, bo	th Acute and Delayed	
	Symptoms:		
		Burning and pain in eyes, skin an	
		Swallowing: strong irritant effect i perforation of esophagus.	n mouth and throat. Danger of
	Effects:		
		No further information available.	
4. 3.	Indication of any Immediate Medical Atten	tion and special Treatment needed	
	Treatment:		
		In case of skin corrosion, conside intake, apply aluminium oxide pre	
5.	Fire-Fighting Measures		.
5. 1.	Extinguishing Media		
	Suitable extinguishing media:		
		CO2, extinguishing powder, wate	r jet.
		Fight larger fire with water jet or a	alcohol resistant foam.
	Unsuitable extinguishing media:		
		Water with full jet.	
5. 2.	Special Hazards arising from the Substand	ce or Mixture	
	Special hazards:		
		In case of fire: formation of carbo	n monoxide and dioxide.
		Fumes can form an explosive mi	xture with air.
		The vapor is heavier than air, spr distant ignition is possible.	eads along the ground and
5. 3.	Advice for Firefighters		
	Protective equipment:		
		Wear self-contained respiratory p	protective device.
	Further information:		
		Cool exposed containers with wa	ter spray.
_		Contaminated extinguishing wate of according to local regulations.	r and debris should be disposed
6	Accidential Release Measures		

6. Accidential Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

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	Personal precautions:		
		Wear protective clothing.	
		Ensure adequate ventilation.	lathing Do not ingoat as inholo
		Avoid contact with skin, eyes and c	nothing. Do not ingest of innale.
6. 2.	Environmental Precautions		
	Environmental precautions:		
		Prevent contamination of soils, dra	ins and surface water.
		Dilute with plenty of water.	at with water
		Reduce escaping gases/fumes/mis Contact local authorities if product	
6. 3.	Methods and Material for Containment and (
	Methods and material:		
	Methous and material.	Provide adequate ventilation.	
		Contain with absorbent material (sa	and, diatomaceous earth,
		universal absorbent, Oil Dri) and d	
		Use neutralizing agents.	
		Transfer liquids and solid diking ma containers for recovery or disposal	
6. 4.	Reference to other Sections		
		For information for safe handling se	ee Section 7.
		Protective clothing, see Section 8.	
		See Section 13 for information on o	disposal.
7.	Handling and Storage		
7.1.	Precautions for Safe Handling		
	Instructions on safe handling:		
		Provide adequate ventilation.	
		Open and handle container with ca	nre.
		Do not swallow or inhale. When diluting: always pour the pro	duct into the water. Never pour
		in water into the product.	auci into the water. Never pour
	Hygienic measures:		
		Do not inhale gas/fumes/vapours/a	nerosols.
		Avoid contact with eyes and skin.	
7.2.	Conditions for Safe Storage, including any I	ncompatibilities	
	Storage conditions:		
		Store in tightly sealed containers in location.	a cool and well ventilated
		Protect against heat and direct sur	nlight.
		Heat causes pressure increase and	d risk of bursting.
	Requirements for storage areas and containers:		
		Store in containers which are perm	nitted for this product.
		Suitable container material: Polyeti	-
	Information on fire and explosion		
	protection:		

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		Do not store together with: oxidants.		
		Hot product develops flammable fumes.		
		Do not store together with alkalis.		
		Vapors may form an explosive mixture w		
		Keep away from sources of ignition - do	not smoke.	
	Storage class (VCI):			
		8 A: combustible corrosive substances		
	Further Information:			
7.3.	Specific End Use(s)			
	Further information:			
		No information available.		
8.	Exposure Controls/Personal Pro	otection		
8. 1.	Parameters to be Controlled			
	Parameters to be controlled (DE):			
		Acetic acid, CAS 64-19-7; AGW: 25 mg/i value); 2(I); (DFG,Y)	m3, 10 ml/m3	long-term
	Parameters to be controlled:			
		IOELV (EC): 25 mg/m3, 10 ml/m3 (long-	term value)	
	Derived No-Effect Level (DNEL):			
		Acetic acid, CAS 64-19-7:		
		25 mg/m3 (worker, inhalation, long-term/ local effects)	/short-term e>	position -
		25 mg/m3 (consumer, inhalation, long-te local effects)	rm/short-tern	n exposition
	Predicted No-Effect Concentration (PNEC):			
		Acetic acid, CAS 64-19-17:		
		Fresh water: 3.058 mg/l		
		Sea water: 0.3058 mg/l		
		Fresh water sediment: 11.36 mg/kg dw		
		Sea water sediment: 1.136 mg/kg dw Soil: 0.478 mg/kg dw		
		Sporadic release: 30.58 mg/l		
		, Sewage treatment system (STP): 85 mg	/I	
	Additional Information:			
8. 2.	Exposure Controls			
	Technical protective measures:			
		No further measures, see Section 7.		
	Personal Protection			
	General protective measures:			
		Remove contaminated clothing immediat	tely.	
		Do not inhale gas/fumes/vapor/aerosol.		
		Avoid contact with eyes and skin.		, .
		Keep away from foodstuffs and drinks. D	o not eat, dri ne:	nk or smoke kt page: 6

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		during work. Wash hands before	breaks and at the end of work.
	Respiratory protection:	.	
		None required under normal oper Recommended: Particle filter E-F	-
	Hand protection:		_ ()
		Acid resistant protective gloves.	
	Protective glove material:		
		Please note the manufacturers' of	
		Butyl rubber (480 min, 0.7 mm).	d the minimum breakthrough time.
	Eye protection:		
		Tightly fitting safety goggles (EN	166).
		Facial protection	
	Body protection:		
		Protective clothing, acid-resistant Chemical resistant safety shoes.	t.
	Environmental processions	Chemical resistant safety shoes.	
9.	Environmental precautions: Physical and Chemical Propertie	<u></u>	
9. 1.	Information on Basic Physical and Chemic		
5. 1.	Form:	liquid	
	Color:	colorless	
	Odor:	pungent	
	Odor threshold:	No information available.	
	pH-Value:	1	
	Melting temperature:	' -24 to -30℃	
	Boiling temperature:	101 - 112°C	
	Flash point:	not available	
	Evaporation rate:		
		No information available.	
	Flammability (solid, gas):		
		not available	
	Upper explosion limit:	17 Vol%	
	Lower explosion limit:	4 Vol%	
	Vapor pressure:	15 hPa (20°C)	
	Vapor density:		
		No information available.	
	Density:	1.064 g/cm3 (20°C)	

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	Solubility in water:	completely miscible		
	Coefficient of variation (n- Octanol/Water):			
		no information available		
	Auto-ignition temperature:			
	5 1	Product is not auto-ignitable.		
	Decomposition temperature:			
		not determined		
	Viscosity, dynamic:	2.11 mPa.s		
	Explosive properties:			
		Product is not explosive; howev can be formed.	er, an explosive vapo	r/air mixture
	Oxidizing properties:			
		No information available.		
	Bulk density:	not determined		
9. 2.	Further Information	not determined		
•• =•	Solubility in solvents:			
	Viscosity, kinematic			
	-			
	Burning class:			
	Solvent content:			
	Solid content:			
	Particle size:			
	Other information:	No further information.		
10.	Stability and Reactivity			
10. 10.1.	Reactivity			
10.1.	Reactivity	Stable if used according to spec	cifications.	
10.2.	Chemical Stability			
		Stable if used according to spec	cifications.	
10.3.	Possibility of Hazardous Reactions			
		Corrosive to metals. Reactions with metals: developi	ment of hydrogen	
		Exothermic reaction (strong) with		
		Development of ignitable mixtur flash point and/or when atomize	es with air when heate	ed above the
10.4.	Conditions to Avoid			
	Conditions to avoid:			
		No further information available.		
	Thermal decomposition:			
		No data availahle		

No data available.

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10.5.	Imcompatible Materials		Finited.	25.05.20	510
10.3.		Strong oxidizing agents, alkalis, metals			
10.6.	Hazardous Decomposition Products				
		Carbon monoxide, carbon dioxide and hy	drocarbons.		
10.7.	Further Information				
11.	Toxicological Information				
11. 1.	Information on Toxicological Effects				
	Acute Toxicity				
	LD50, oral:	3310 mg/kg (rat)			
	LD50, dermal:				
		not determined			
	LC50, inhalation:	> 16 mg/l (rat)			
	Primary effects				
	Irritant effect on skin:				
		Causes chemical burns to skin and muco	us membrar	ne.	
	Irritant effect on eyes:				
		Causes severe chemical burns.			
	Inhalation:				
		No information available.			
	Ingestion:	No information available			
	Sensitization:	No sensitizing effects known.			
	Mutagenicity:	3			
	malagemeny.	No data available.			
	Reproductive toxicity:				
		No information available.			
	Cancerogenity:				
		No data available.			
	Teratogenicity:				
		No information available.			
	Specific target organ toxicity (STOT):				
		No data available.			
	Additional toxicological information:	Inhalation can cause chemical burns and	a resorptive	toxic offe	oct
		The inhalation of high concentrations of a cause laryngitis, tracheitis and bronchitis, obstructing pulmonary edema.	cetic acid va	apors can	
		After skin contact, a brown corrosion scal	o is mostly fo	ormed.	
		Due to its good lipid solubility it is rapidly µ with depth effect.		-	ו
		The data is based on the undiluted 100 %	preparation nex	n. xt page:	9

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12.	Ecological Information			
12. 1.	Aquatic Toxicity			
	Fish toxicity:			
		LC50: 408 - 410 mg/l (48h, Leuciscu	,	
		LC50: > 300 mg/l (96h, Oncorhynch	-	203)
		LC50: 79 mg/l (96h, Pimephales pro	melas)	
	Daphnia toxicity:			
		EC50: 47 - 95 mg/l (24h, Daphnia m	• /	
		EC50: > 300 mg/l (48h, Daphnia ma	gna; 0ECD 202)	
	Bacteria toxicity:			
		no information available		
	Algae toxicity:			
		EC50: > 300 mg/l (72h, Skeletonema costatum; ISC		DIS 10253)
12. 2.	Persistency and Degradability			
		Readily biodegradable.		
12. 3.	Bioaccumulation			
		No bioaccumulation.		
12. 4.	Mobility	No information available.		
40 E				
12. 5.	Results of PBT- und vPvP Assessment	Not applicable.		
12. 6.	Other Adverse Effects			
12. 0.				
	Water hazard class:	1, slightly hazardous		
		r, siigniig nazaruous		
	Behaviour in sewage systems:			
	Further ecological effects:			
		Rinse off of bigger amounts into dra		
		may lead to increased pH-values. A organisms.	nign pi i-value na	
		The pH-value is reduced significantl		
		diluted, so that the waste water whic system is only slighty hazardous to		sewage
		Do not let product enter waterways		٦.
		The data is based on the undiluted		
	AOX Value:			
13.	Disposal Considerations			
13. 1.	Waste Treatment Methods			
	Product:			
	. /00001.	Dispose of according to official natio	nal and local requ	Ilations

Dispose of according to official national and local regulations. Must not be disposed together with household garbage. Do not let product enter water systems.

European Waste Code (EWC):

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		Dispose of according to official local regula		20.00.2010
		Suggested cleaning agent: water.		
	Waste Code No.:			
14.	Transport Information			
14. 1.	UN Number			
	ADR, IMDG, IATA	2790		
14. 2.	UN Proper Shipping Name			
	ADR/RID:	ESSIGSÄURE, LÖSUNG		
	IMDG/IATA:	ACETIC ACID SOLUTION		
14. 3.	Transport Hazard Classes			
	ADR Class:	8		
	Hazard no.:	8		
	Classification code:	C3		
	Tunnel no.:	E		
	IMDG Class (sea):	8		
	Hazard no.:	8		
	EmS No.:	F-A, S-B		
	IATA Class:	8		
	Hazard no.:	8		
14. 4.	Packaging Group			
	ADR/RID:	11		
	IMDG:	11		
	IATA:	11		
14. 5.	Environmental Hazards			
		Not classified as environmentally hazardo	us.	
14. 6.	Special Precautions for User			
14. 7.	Transportation in Bulk according to Annex II	Warning: corrosive substances		
14.7.		not applicable		
14. 8.	Further Information			
15.	Regulatory Information			
15. 1.	Safety, Health and Environmental Regulations	s/Legislation specific for the Substance or Mixture	9	
	Water hazard class:			
		1, slightly hazardous for water (self-asses	sment)	
	Local regulations on chemical accidents.	: Not listed.		
	Employment restrictions:	The employment restrictions for young wo		o <i>rdance with</i> kt page: 11

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		the Youth Employment Protection observed.	Law (94/33/EC) are to be
	Restriction and prohibition of application	on:	
	Technical instructions on air quality:		
		5.2.5.: Organic substances	
		Classification II: 80 %	
15. 2.	Chemical Safety Assessment		
		A Chemical Safety Assessment h product.	as been carried out for this
15. 3.	Further Information		
16.	Other Information		
		This product should be stored, ha with good hygiene practices and regulations. This information cont present state of knowledge and is from the point of view of safety re therefore not be construed as gua	in conformity with any legal ained herein is based on the s intended to describe our product quirements. It should be