

### SAFETY DATA SHEET

info@deffner-johann.de | +49 9723 9350-0

Die in diesem Produktdatenblatt genannten Spezifikationen dienen nur zur Produktbeschreibung und beziehen sich auf den Zeitpunkt unmittelbar nach der Produktion bzw. Import des Produktes. Sie entsprechen den Angaben des Herstellers. Eine rechtsverbindliche Zusicherung bestimmter Eigenschaften oder der Eignung für einen bestimmten Einsatzzweck kann hieraus nicht abgeleitet werden. Durch unsachgemäßen Transport und / oder unsachgemäße Lagerung können sich Änderungen ergeben. Die Angaben in diesem Produktdatenblatt entbinden den Verarbeiter nicht von eigener Prüfung der Eigenschaften des Produktes und dessen Eignung für die vorgesehene Verwendung.

# deffner & Johann

				Page	1
Revised	d edition: 07.07.2015		Version: 105	Printed:	25.05.2021
1.	Identification of the Subst	tance/Mi	xture and of the Company/	Undertaking	
1. 1.	Product Identifier				
	Product Name:		Acetic Acid 60 %		
	Article No.:		2328200		
	UFI:				
1. 2.	Relevant identified Uses of the Sul	bstance or l	Mixture and Uses advised against		
	Identified uses:		Chemical for different applicat	ions	
			Solvent Intermediate product for organ		
	Uses advised against:				
1. 3.	Details of the Supplier of the Safet	y Data Shee	et (Producer/Importer)		
	Company:		Deffner & Johann GmbH		
	Address:		Mühläckerstraße 13, D-97520 Röthlein, Germany		
	Tel./Fax.:		Tel. +49 9723 9350-0, Fax +49 9723 9350-25		
	Internet:		www.deffner-johann.de		
	EMail:		E-Mail info@deffner-johann.de		
	Importer:				
1. 4.	Emergency No.		Tel. +49 9723 9350-0 (Mo F	r.: 8:00 - 15:00 Uhr)	
	Emergency No.:				
1. 4. 2	Poison Center:				
2.	Hazards Identification				
2. 1.	Classification of the Substance or	Mixture			
	Classification according to Reg (EC) No. 1272/2008 (CLP/GH				
	(EC) NO. 1212/2000 (CLF/GIA	3)	Skin corrosion, hazard catego		
	ł		Corrosive to metals, hazard ca Causes severe skin burns and		
		Cat.: 1A		v eye damage.	
		H318 Cat.: 1	Causes serious eye damage.		
	Possible Environmental Effects	s:			
2. 2.	Label Elements				
	Classification according to Reg (EC) No. 1272/2008 (CLP/GH				
	Hazard designation:				
			GHS05-2		

# deffner & Johann

Revised	d edition: 07.07.2015		Version: 105	Page 2 Printed: 25.05.2021		
			Danger			
	Hazard designation	n <sup>.</sup>	-			
	nazara doorgination	H314	Causes severe skin burns	and eve damage.		
		H318	Causes serious eye damag			
	Safety designation	, <i>.</i>				
	curry accignation	 P280	Wear protective gloves/ clc	hing/ eve/ face protection.		
		P303+P361+P353		immediately all contaminated clothing.		
		P305+P351+P338	If in eyes: Rinse cautiously contact lenses and continu	with water for several minutes. Remove e rinsing.		
		P310	Immediately call a poison o	enter or physician.		
		P405 Store locked up.				
		P501	Dispose of contents/ contain international regulations.	iner according to regional, national and		
	Hazardous compo	nents for labelling:	Acetic acid			
2. 3.	Other Hazards					
			Not applicable.			
3.	Composition/In	formation on Ingre	dients			
3. 1.	Substance					
3. 2.	Mixture					
	Chemical Characterization:					
	Information on Components / Hazardous Ingredients:					
	Acetic acid (C; R1) 01-2119475328-30	0-35; H226-314); REA )-XXXX	CH-Nr. 60 %	CAS-Nr: 64-19-7 EINECS-Nr: 200-580-7 EC-Nr: 607-002-00-6		
				20-11.007-002-00-0		
	Additional informat	tion:				
4.	First Aid Measu	ires				
4. 1.	Description of the Fi	rst Aid Measures				
	General informatio	on:				
			Remove contaminated clot	hes immediately.		
			Take person away from ha	zardous area.		
	After innalation.					
	After inhalation:		complaints or unconsiousn	l give artificial respiration. In case of ess consult a physician. In case of tient stable in side position for		
	After inhalation: After skin contact:		complaints or unconsiousn unconsciousness place pa	ess consult a physician. In case of		
			complaints or unconsiousn unconsciousness place par transportation.	ess consult a physician. In case of tient stable in side position for hing immediately. Wash off immediately		
			complaints or unconsiousn unconsciousness place part transportation. Remove contaminated clot with plenty of water and so	ess consult a physician. In case of tient stable in side position for hing immediately. Wash off immediately		

### deffner & Johann

#### 2328200 Acetic Acid 60 %

			Page		
Revise	d edition: 07.07.2015	Version: 105	Printed: 25.05.202		
		Consult physician.			
	After ingestion:				
		Rinse mouth with water and dri	nk plenty of water.		
		Immediately get medical help.			
		Do not induce vomiting. Risk of perforation!			
4. 2.	Most important Symptoms and Effects, b				
T. Z.		our Acute and Delayed			
	Symptoms:	Burning and pain in eyes, skin	and mucous membranes		
			and maccus memoranes. It in mouth and throat. Danger of		
	Effects:				
		No further information available	<u>}.</u>		
4. 3.	Indication of any Immediate Medical Atte	ntion and special Treatment needed			
	Treatment:				
		In case of skin corrosion, consi intake, apply aluminium oxide p			
5.	Fire-Fighting Measures				
5. 1.	Extinguishing Media				
	Suitable extinguishing media:				
		CO2, extinguishing powder, wa	iter jet.		
		Fight larger fire with water jet o	r alcohol resistant foam.		
	Unsuitable extinguishing media:				
		Water with full jet.			
5. 2.	Special Hazards arising from the Substance or Mixture				
	Special hazards:				
		In case of fire: formation of car	bon monoxide and dioxide.		
		Fumes can form an explosive r			
		The vapor is heavier than air, s distant ignition is possible.	preads along the ground and		
5. 3.	Advice for Firefighters	<b>3</b> ,			
	Protective equipment:				
		Wear self-contained respiratory	/ protective device.		
	Further information:				
	-	Cool exposed containers with v	vater spray.		
		Contaminated extinguishing wa of according to local regulation.	ater and debris should be disposed s.		
6.	Accidential Release Measures				

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions:

Wear protective clothing. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Do not ingest or inhale. Safety Data Sheet

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

### deffner & Johann

Revise	d edition: 07.07.2015	Version: 105	2 Page 2 Printed: 25.05.202
6. 2.	Environmental Precautions		
	Environmental precautions:		
		Prevent contamination of soils, dra	ains and surface water.
		Dilute with plenty of water.	
		Reduce escaping gases/fumes/mi	
		Contact local authorities if product	t pollutes soil or vegetation.
6. 3.	Methods and Material for Containment and (	Cleaning Up	
	Methods and material:		
		Provide adequate ventilation.	and distances and a with
		Contain with absorbent material (s universal absorbent, Oil Dri) and c	
		Use neutralizing agents.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		Transfer liquids and solid diking m containers for recovery or disposa	
6. 4.	Reference to other Sections		
		For information for safe handling s	
		Protective clothing, see Section 8.	
		See Section 13 for information on	disposal.
7.	Handling and Storage		
7. 1.	Precautions for Safe Handling		
	Instructions on safe handling:		
		Provide adequate ventilation.	
		Open and handle container with container with container with container with container with container with a	are.
		When diluting: always pour the pro-	oduct into the water. Never pour
		in water into the product.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	Hygienic measures:		
		Do not inhale gas/fumes/vapours/	aerosols.
		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.	n a cool and well ventilated
		Protect against heat and direct su	nlight.
		Heat causes pressure increase ar	nd risk of bursting.
	Requirements for storage areas and containers:		
		Store in containers which are perm	nitted for this product.
		Suitable container material: Polye	thylene or stainless steel.
	Information on fire and explosion protection:		
		Do not store together with: oxidan	
		Hot product develops flammable f	umes.
		Do not store together with alkalis.	sture with air
		Vapors may form an explosive mix	xture with air.
		Keep away from sources of ignitio	next page: 5

Safety Data Sheet

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

### deffner & Johann

Revise	d edition: 07.07.2015	Version: 105	Page Printed: 25.05.202
	Storage class:		
	-	8 A; combustible corrosive substant	ces (TRGS 510)
	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: 2 value); 2(I); (DFG,Y)	5 mg/m3, 10 ml/m3 (long-tern
	Parameters to be controlled:		
		IOELV (EC): 25 mg/m3, 10 ml/m3 (i	long-term value)
	Derived No-Effect Level (DNEL):		
		Acetic acid, CAS 64-19-7:	
		25 mg/m3 (worker, inhalation, short local effects)	
		25 mg/m3 (consumer, inhalation, sh local effects)	nort-term/long-term exposure
	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 d	
		Soil: 0.478 mg/kg dw	
		Intermittent release: 30.58 mg/l	
		Sewage treatment system (STP): 8	5 mg/l
	Additional Information:		
8. 2.	Exposure Controls		
	Technical protective measures:		
		No further measures, see Section 7	
	Personal Protection		
	General protective measures:		
		Remove contaminated clothing imm	nediately.
		Do not inhale gas/fumes/vapor/aero	-
		Avoid contact with eyes and skin.	
		Keep away from foodstuffs and drin during work. Wash hands before br	
	Respiratory protection:		
		None required under normal operat	ing conditions.
		Recommended: Particle filter E-P2	(EN 141)
	Hand protection:		

### deffner & Johann

			Page 6
Revise	ed edition: 07.07.2015	Version: 105	Printed: 25.05.2021
	<b>-</b>	Acid resistant protective gloves.	
	Protective glove material:	Please note the manufacturers´ o about the minimum thickness and Butyl rubber (480 min, 0.7 mm)	detailed statements, especially d the minimum breakthrough time.
	Eye protection:		
		Tightly fitting safety goggles (EN Facial protection	166).
	Body protection:		
		Protective clothing, acid-resistant	t.
	<b>-</b>	Chemical resistant safety shoes.	
	Environmental precautions:		
<b>9.</b> 9. 1.	Physical and Chemical Prop Information on Basic Physical and Ch		
9. 1.	-		
	Form:	liquid	
	Color:	colorless	
	Odor:	pungent	
	Odor threshold:	no information available	
	pH-Value:	1	
	Melting temperature:	-24 to -30°C	
	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.	
	Donoitr <i>u</i>		
	Density: Solubility in water:	1.064 g/cm3 (20°C)	
	Solubility in water:	completely miscible	
	Coefficient of variation (n- Octanol/Water):		
		no information available	
	Auto-ignition temperature:		

# deffner & Johann

			Page 7
Revise	d edition: 07.07.2015	Version: 105	Printed: 25.05.2021
		Product is not auto-ignitable.	
	Decomposition temperature:	not determined	
	Viscosity, dynamic:	2.11 mPa.s	
	Explosive properties:	Product is not explosive: howev	ver, an explosive vapor/air mixture
		can be formed.	
	Oxidizing properties:		
		no information available	
	Bulk density:		
		not determined	
9. 2.	Further Information		
	Solubility in solvents:		
	Viscosity, kinematic:		
	Burning class:		
	Solvent content:		
	Solid content:		
	Particle size:		
	Other information:		
		No further information.	
10.	Stability and Reactivity		
10.1.	Reactivity		- 19
10.0	Chamical Stability	Stable if used according to spec	cifications.
10.2.	Chemical Stability	Stable if used according to spe	cifications.
10.3.	Possibility of Hazardous Reactions		
	-	Corrosive to metals.	
		Reactions with metals: develop	
		Exothermic reaction (strong) wi	th aikallis. res with air when heated above the
		flash point and/or when atomize	
10.4.	Conditions to Avoid		
	Conditions to avoid:		
		No further information available	<u>۶.</u>
	Thermal decomposition:		
10 5	Impompatible Materiale	No data available.	
10.5.	Imcompatible Materials	Strong oxidizing agents, alkalis,	, metals
10.6.	Hazardous Decomposition Products		
		Carbon monoxide, carbon dioxi	ide and hydrocarbons.
			next page: 8

#### Safety Data Sheet

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

### deffner & Johann

### 2328200 Acetic Acid 60 %

Povince	d edition: 07.07.2015	Version: 105	Page Printed: 25.05.202
10.7.	Further Information	version: 105	Printed: 25.05.202
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 mu	cous membrane.
	Irritant effect on eyes:	0	
		Causes severe chemical burns.	
	Inhalation:	No information available.	
	Ingestion:		
		No information available	
	Sensitization:		
		No sensitizing effects known.	
	Mutagenicity:	No volovová dožo forvad	
	<b>_</b>	No relevant data found.	
	Reproductive toxicity:	No information available.	
	Carcinogenicity:		
		No relevant data found.	
	Teratogenicity:		
		No information available.	
	Specific target organ toxicity (STOT):	No relevant data found.	
	Additional toxicological information:		
		Inhalation can cause chemical burns ar The inhalation of high concentrations of cause laryngitis, tracheitis and bronchit obstructing pulmonary edema.	f acetic acid vapors can
		After skin contact, a brown corrosion so	•
		Due to its good lipid solubility it is rapidl with depth effect.	ly penetrated by the skin
		The data is based on the undiluted 100	% preparation.

#### 12. Ecological Information

12. 1. Aquatic Toxicity

Fish toxicity:

# deffner & Johann

		Page		
Revise	d edition: 07.07.2015	Version: 105 Printed: 25.05.2		
		LC50: 408 - 410 mg/l (48h, Leuciscus idus) LC50: > 300 mg/l (96h, Oncorhynchus mykiss; OECD 203) LC50: 79 mg/l (96h, Pimephales promelas)		
	Daphnia toxicity:			
		EC50: 47 - 95 mg/l (24h, Daphnia magna) EC50: > 300 mg/l (48h, Daphnia magna; OECD 202)		
	Bacteria toxicity:			
		no information available		
	Algae toxicity:			
		EC50: > 300 mg/l (72h, Skeletonema costatum; ISO/DIS 1025		
12. 2.	Persistency and Degradability			
		Readily biodegradable.		
12. 3.	Bioaccumulation			
	•• • •••	No bioaccumulation.		
12. 4.	Mobility	No information available.		
12. 5.	Results of PBT- und vPvP Assessment			
12. j.		Not applicable.		
12. 6.	Other Adverse Effects			
	Water hazard class:	1, slightly hazardous		
		r, singhty hazardous		
	Behaviour in sewage systems:			
	Further ecological effects:	Diana aff af history and the interduction and an attaction of the second state of the		
		Rinse off of bigger amounts into drains or aquatic environmen may lead to increased pH-values. A high pH-value harms aqua organisms.		
		The pH-value is reduced significantly when the used product is diluted, so that the waste water which might enter the sewage system is only slighty hazardous to water.		
		Do not let product enter waterways or sewage system.		
		The data is based on the undiluted 100 % preparation.		
	AOX Value:			
13.	<b>Disposal Considerations</b>			
13. 1.	Waste Treatment Methods			
	Product:			
		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):			
	Uncleaned packaging:			
		Dispose of according to official local regulations. Suggested cleaning agent: water.		
	Waste Code No.:			
		next page:		

# deffner & Johann

#### 2328200 Acetic Acid 60 %

Revise	d edition: 07.07.2015	Version: 105	Page Printed:	10 25.05.2021
14.	Transport Information		T fifted.	20.00.2021
14. 14. 1.	UN Number			
1-11-11	ADR, IMDG, IATA	2790		
14. 2.	UN Proper Shipping Name	2730		
	ADR/RID:	ESSIGSÄURE, LÖSUNG		
	IMDG/IATA:	ACETIC ACID SOLUTION		
14. 3.	Transport Hazard Classes			
	ADR Class:	8		
	Hazard no.:	8		
	Classification code:	C3		
	Tunnel restriction code:	E		
	IMDG Class (sea):	8		
	Hazard no.:	8		
	EmS No.:	с F-A, S-B		
	IATA Class:	8		
	Hazard no.:	8		
14. 4.	Packaging Group	0		
	ADR/RID:	11		
	IMDG:			
	IATA:			
14. 5.	Environmental Hazards			
		Not classified as environmentally hazard	lous.	
14. 6.	Special Precautions for User			
		Warning: corrosive substances		
14.7.	Transportation in Bulk according to Annex II	of MARPOL 73/78 and IBC-Code not applicable		
14. 8.	Further Information			
15.	Regulatory Information			
15. 1.	Safety, Health and Environmental Regulation	s/Legislation specific for the Substance or Mixtu	ıre	
	Water hazard class:			
		1, slightly hazardous for water (German assessment)	Regulation, s	elf-
	Local regulations on chemical accidents	: Not listed.		
	Employment restrictions:			
		The employment restrictions for young w the Youth Employment Protection Law a		
	Postriction and prohibition of application			

Restriction and prohibition of application:

#### 2328200 Acetic Acid 60 %

# deffner & Johann

			Page	11
Revise	d edition: 07.07.2015	Version: 105	Printed:	25.05.2021
	Technical instructions on air quality:			
		5.2.5.: Organic substances		
		Classification II: 80 %		
15. 2.	Chemical Safety Assessment			
		A Chemical Safety Assessment I product.	nas been carried out	for this
15. 3.	Further Information			
16.	Other Information			
		This product should be stored, he with good hygiene practices and regulations. This information com present state of knowledge and is from the point of view of safety re therefore not be construed as gu	in conformity with an tained herein is base s intended to describ equirements. It should	y legal d on the e our product d be