

## SAFETY DATA SHEET

Version #: 03 Issue date: 12-May-2022 Revision date: 29-March-2024 Supersedes date: 27-April-2023

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

1.1. Product identifier         Trade name or designation       D-300 CONCENTRATE         Of the mixture       D-300 CONCENTRATE         Registration number       -         UFI:       Beljum: AF23-506X-F00A-N76A         Germany: AF23-506X-F00A-N76A       Germany: AF23-506X-F00A-N76A         None:       None         Synonyms       None.         Product code       815000         1.2. Relevant identified uses of U= substance or mixture and uses advised against       Identified uses decivative but additive         Uses advised against       None known.         1.3. Details of the supplier of the substance or mixture and uses advised against       Identified uses (U= substance or mixture and uses advised against         Company name       Pilot Chemical Company         Address       9075 Centre Pointe Dr, Suite 400         West Chester, OH 45069       West Chester, OH 45069         I elephone       (513) 326-0600 (GAM to 5PM Eastern) or 1-800-707-4568         E-mail       sdsinfo@pilotchemical.com         EU only Representative       Germany         Company name       Yodas GmbH         Address       1703-527-3887         E-mail       160@yordasgroup.com         I elephone       1-302-527-3887         CHEMTREC Internation       1		fication of the substance/mixture and of the company/ur
of the mixture       Feagistration number       -         Registration number       -         UFI:       Belgium: AF23-506X-F00A-N76A France: AF23-506X-F00A-N76A Cermmany: AF23-506X-F00A-N76A Italy: AF23-506X-F00A-N76A Netherlands: AF23-506X-F00A-N76A None.         Synonyms       None.         Product code       815000         12. Relevant identified uses of Lectolytic bath additive Uses advised againt       None.         None       Product code       815000         13. Details of the supplier of the substance or mixture and uses advised against Identified uses       Electolytic bath additive Uses advised againt         Maufacturer       Vorda Smoth       West Cheaster, OH 45069         Company name       Pilot Chemical Company Address       9075 Centre Pointe Dr, Suite 400         Kest Cheaster, OH 45069       United States of America       1000000000000000000000000000000000000	1.1. Product identifier	
UF:       Belgium: AF23-506X-F00A-N76A France: AF23-506X-F00A-N76A Cermany: AF23-506X-F00A-N76A Netherlands: AF24-506X-F00A-N76A Netherlands: AF24-506X-F00A-N76A Netherlands: AF24-506X-F00A-N76A Netherlands: AF24-506X-F00A-N76A Netherlands: AF24-506X-F00A-N76A Netherlands: AF24-506X-F00A-N76A Netherlands: AF24-506X-F00A-N76A Netherlands: AF24-507A Netherlands:	Ŭ	ation D-300 CONCENTRATE
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France: AF23-506X-F00A-N76A Italy: AF23-506X-F00A-N76A Netherlands: AF23-506X-F00A-N76A           Synonyms         None.           Product code         81500           12. Relevant identified uses of U= substance or mixture and uses advised against Identified uses         Electrolytic bath additive           Uses advised against         None known.           1.3. Details of the supplie of the substance or mixture and uses advised against Identified uses         Electrolytic bath additive           Uses advised against         None known.           1.3. Details of the supplie of the substance or mixture and uses advised against Identified uses         More known.           1.4. Company name         Pilot Chemical Company Address         9075 Centre Pointe Dr, Suite 400 West Chester, OH 45069 United States of America           Telephone         (513) 326-0600 (8AM to 5PM Eastern) or 1-800-707-4568           E-mail         sdsinfo@pilotchemical.com           EU Orly Representative         91301 Forchheim Germany           Telephone         ¥0(0)9191 3454997           E-mail         1703-527-3887           CHEMTREC International:         1703-527-3887           CHEMTREC Belgium:         4(32)-2808039           GHEMTREC Croatia:         4(35)-17776920           CHEMTREC Company:         (435)-91776920           CHEMTREC Finland:         4(35)-9918573		
Product code 815000  1.2. Relevant identified uses of tbe substance or mixture and uses advised against Identified uses Electrolytic bath additive Uses advised against None known.  1.3. Details of the supplier of tbe staft data sheet Manufacturer Company name Pilot Chemical Company Address 9075 Centre Pointe Dr, Suite 400 West Chester, OH 45069 United States of America Telephone (513) 326-0600 (8AM to 5PM Eastern) or 1-800-707-4568 E-mail sdsinfo@pilotchemical.com  EU Only Representative Company name Yordas GmbH Address Äußere Nürnberger Straße 62 91301 Forchheim Germany Telephone +49 (0)9191 3454997 E-mail info@yordasgroup.com  1.4. Emergency telephone number CHEMTREC futernational: 1-703-527-3887 CHEMTREC Bulgaria: 4(32)-28083237 CHEMTREC Bulgaria: 4(35)-32570104 CHEMTREC Croatia: 4(35)-17776920 CHEMTREC Croatia: 4(35)-17776920 CHEMTREC Company: 4(36)-17776920 CHEMTREC Company: 4(36)-942419014 CHEMTREC Finand: 4(358)-942419014 CHEMTREC France: 4(33)-975181407 CHEMTREC Germany: 4(36)-18088425 CHEMTREC Lineland: 4(35)-19014670		France: AF23-506X-F00A-N76A Germany: AF23-506X-F00A-N76A Italy: AF23-506X-F00A-N76A
<ul> <li>1.2. Relevant identified uses of the substance or mixture and uses advised against Identified uses Electrolytic bath additive Uses advised against None known.</li> <li>1.3. Details of the supplier of the safety data sheet</li> <li>Manufacturer</li> <li>Company name Pilot Chemical Company Address 9075 Centre Pointe Dr, Suite 400 West Chester, OH 45069 United States of America</li> <li>Telephone (513) 326-0600 (8AM to SPM Eastern) or 1-800-707-4568 E-mail sdife@pilotchemical.com</li> <li>EU Only Representative</li> <li>Company name Yordas GmbH Address Äußere Nürnberger Straße 62 91301 Forchheim Germany</li> <li>Telephone 149 (90)191 3454997</li> <li>E-mail info@yordasgroup.com</li> <li>1.4. Emergency telephone number</li> <li>CHEMTREC International: 1-703-527-3887</li> <li>CHEMTREC Selgium: +(34)-13649237</li> <li>CHEMTREC Rubraria: +(359)-32570104</li> <li>CHEMTREC Croatia: +(359)-32570104</li> <li>CHEMTREC Croatia: +(359)-17776920</li> <li>CHEMTREC Croatia: +(45)-69918573</li> <li>CHEMTREC Denmark: +(45)-69918573</li> <li>CHEMTREC Finland: +(358)-942419014</li> <li>CHEMTREC France: +(33)-975181407</li> <li>CHEMTREC Germany: +(36)-18084255</li> <li>CHEMTREC Linelamic: +(35)-19014670</li> </ul>	Synonyms	None.
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Address9075 Centre Pointe Dr, Suite 400 West Chester, OH 45069 United States of AmericaTelephone(513) 326-0600 (8AM to 5PM Eastern) or 1-800-707-4568 E-mailE-mailsdsinfo@pilotchemical.comEU Only RepresentativeVordas GmbH Außere Nürnberger Straße 62 91301 Forchheim GermanyTelephone+49 (0)9191 3454997 (E-mailE-mail1-703-527-3887CHEMTREC International:1-703-527-3887CHEMTREC Bulgaria:+(35)-32570104CHEMTREC Bulgaria:+(359)-32570104CHEMTREC Croatia:+(359)-32570104CHEMTREC Croatia:+(359)-32570104CHEMTREC Croatia:+(359)-32570104CHEMTREC Enternark:-(358)-17776920CHEMTREC Denmark:+(359)-32570104CHEMTREC Croatia:+(45)-69918573CHEMTREC France:+(358)-942419014CHEMTREC France:+(358)-942419014CHEMTREC France:+(35)-918407CHEMTREC France:+(35)-17059CHEMTREC France:+(35)-19014670		
Vest Chester, OH 45069Unide States of AmericaTelephone(513) 326-0600 (8AM to 5PM Eastern) or 1-800-707-4568E-mailSoino@pilotchemical.comVordas GmBHAddressAußere Nürnberger Straße 62AddressAußere Nürnberger Straße 62AddressGermanyTelephone+49 (0)9191 3454997E-mailinf@vordasgroup.comE-mailinf@vordasgroup.comCHEMTREC Internatione:-103-527-3887CHEMTREC Austria:(43)-3649237GHEMTREC Belgium:(303-32570104GHEMTREC Croatia:(303-92570104GHEMTREC Croatia:(430-92880039)GHEMTREC Croatia:(430-92880039)GHEMTREC Croatia:(430-92880039)GHEMTREC Finland:(303-975181407GHEMTREC Finland:(303-975181407GHEMTREC Gremany:(303-975181407GHEMTREC Gremany:(303-975181407GHEMTREC Gremany:(303-975181407GHEMTREC Gremany:(303-975181407GHEMTREC Gremany:(303-975181407GHEMTREC Gremany:(303-975181407GHEMTREC Finland:(303-975181407GHEMTREC Finland:(303-975181407GHEMTREC Finland:(303-975181407GHEMTREC Finland:(303-975181407GHEMTREC Finland:(303-975181407GHEMTREC Finland:(303-975181407GHEMTREC Finland:(303-975181407GHEMTREC Finland:(303-975181407GHEMTREC Finland:(303-975181407GHEMTREC Finland:(303-97518140	Company name	Pilot Chemical Company
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E-mail sdsinfo@pilotchemical.com EU FUREPresentative Company name Yordas GmbH Address Außere Nürnberger Straße 62 91301 Forchheim Germany Telephone +49 (0)9191 3454997 E-mail info@yordasgroup.com 1.4 E-mergency telephone numeer CHEMTREC International: 1-703-527-3887 CHEMTREC Austria: 4(43)-13649237 CHEMTREC Belgium: 4(32)-28083237 CHEMTREC Belgiana: 4(359)-32570104 CHEMTREC Belgiana: 4(359)-32570104 CHEMTREC Croatia: 4(359)-32570104 CHEMTREC Croatia: 4(365)-17776920 CHEMTREC Croatia: 4(42)-228880039 Republic:  CHEMTREC Croatia: 4(45)-69918573 CHEMTREC Denmark: 4(45)-69918573 CHEMTREC Finland: 4(358)-942419014 CHEMTREC France: 4(33)-975181407 CHEMTREC France: 4(36)-181047 CHEMTREC France: 4(36)-181047 CHEMTREC Finland: 4(36)-18088425 CHEMTREC Hungary: 4(36)-18088425		United States of America
EU Unly Representative       Vordas GmbH         Address       Äußere Nürnberger Straße 62         Haddress       Adures         Address       Hill Straße 62         Haddress       Hill Straße 100         Germany       Germany         Telephone       +49 (0)9191 3454997         E-mail       Hogyordasgroup.com         CHEMTREC International:       1-703-527-3887         CHEMTREC Austria:       +(43)-13649237         CHEMTREC Belgium:       +(43)-13649237         CHEMTREC Bulgaria:       +(359)-32570104         CHEMTREC Bulgaria:       +(359)-32570104         CHEMTREC Croatia:       +(359)-12776920         Republic:       +(420)-228880039         Republic:       +(45)-69918573         CHEMTREC Finland:       +(45)-69918573         CHEMTREC France:       +(30)-975181407         CHEMTREC Finland:       +(30)-975181407         CHEMTREC Hungary:       +(36)-18088425	Telephone	
Company nameYordas GmbHAddressÄußere Nürnberger Straße 62 91301 Forchheim GermanyTelephone+49 (0)9191 3454997E-mailinfo@yordasgroup.com1.4.Emergency telephone number CHEMTREC International:CHEMTREC International:1-703-527-3887CHEMTREC Belgium:+(43)-13649237CHEMTREC Belgium:+(32)-28083237CHEMTREC Bulgaria:+(359)-32570104CHEMTREC Croatia:+(359)-32570104CHEMTREC Croatia:+(420)-228880039CHEMTREC Denmark:+(45)-69918573CHEMTREC France:+(45)-69918573CHEMTREC France:+(33)-975181407CHEMTREC Germany:0800-181-7059CHEMTREC Hungary:+(36)-18088425CHEMTREC Ireland:+(35)-19014670		
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	CHEMTREC Hunga	<b>ary:</b> +(36)-18088425
CHEMTREC Italy: 800-789-767	CHEMTREC Irelan	<b>d:</b> +(353)-19014670
	CHEMTREC Italy:	800-789-767

1.4	. Emergency telephone number	er
	CHEMTREC Luxembourg:	+(352)-20202416
	CHEMTREC Netherlands:	+(31)-858880596
	CHEMTREC Norway:	+(47)-21930678
	CHEMTREC Poland:	+(48)-223988029
	CHEMTREC Portugal:	+(351)-308801773
	CHEMTREC Slovakia:	+(421)-233057972
	CHEMTREC Slovenia:	+(38)-618888016
	CHEMTREC Spain:	900-868538
	CHEMTREC Sweden:	+(46)-852503403
	Switzerland Tox Info Suisse	145 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
	CHEMTREC UK:	+(44)-870-8200418 & 1 703-527-3887
	CHEMTREC Ukraine:	+(380)-947101374

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

#### Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards		
Skin corrosion/irritation	Category 1B	H314 - Causes severe skin burns and eye damage.
Serious eye damage/eye irritation	Category 1	H318 - Causes serious eye damage.

#### 2.2. Label elements

Contains:

. .

#### Label according to Regulation (EC) No. 1272/2008 as amended

Reaction Mass of 4-sulphophthalic acid and 3-sulphophthalic acid

Hazard pictograms

Signal word Danger Hazard statements Causes severe skin burns and eye damage. H314 Causes serious eye damage. H318 **Precautionary statements** Prevention Do not breathe dust or mists. P260 Wash thoroughly after handling. P264 Wear protective gloves/protective clothing/eye protection/face protection. P280 Response IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P301 + P330 + P331 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with P303 + P361 + P353 water/shower. Wash contaminated clothing before reuse. P363 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P304 + P340 Immediately call a POISON CENTRE/doctor. P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present P305 + P351 + P338 and easy to do. Continue rinsing. Storage P405 Store locked up. Disposal Dispose of contents/container in accordance with local/regional/national/international regulations. P501 Supplemental label information None.

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII. This product does not contain any substances present in concentrations greater than 0,1% which are included in the Candidate List for Authorisation for having endocrine disrupting properties or are identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. The mixture does not contain any substances included in the list established in accordance with REACH Article 59(1) for having endocrine disrupting properties at a concentration equal to or greater than 0.1% by weight.

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

#### 3.2. Mixtures

#### **General information**

Chemical name	%	CAS-No. / EC No.	<b>REACH Registration No.</b>	Index No.	Notes
Reaction Mass of 4-sulphophthalic acid and 3-sulphophthalic acid	50 - < 60	N/A 946-046-3	01-2120739691-49-XXXX	-	
Classification	: Skin Corr.	1B;H314, Eye Dam.	1;H318		
	40 4 50				

Other components below reportable 40 - < 50 levels

#### Impurities

Chemical name	%	CAS-No. / EC No.	<b>REACH Registration No.</b>	Index No.	Notes
Phthalic acid	0 - 2	88-99-3 201-873-2	-	-	
Sulphuric acid	0 - 2	7664-93-9 231-639-5	-	016-020-00-8	#

#### List of abbreviations and symbols that may be used above

ATE: Acute toxicity estimate.

M: M-factor

vPvB: very persistent and very bioaccumulative substance.

PBT: persistent, bioaccumulative and toxic substance.

#: This substance has been assigned Union workplace exposure limit(s).

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition comments Occupational Exposure Limits for impurities are listed in Section 8. The full text for all

H-statements is displayed in section 16.

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

General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
4.1. Description of first aid meas	sures
Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control centre immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control centre immediately.
Ingestion	Call a physician or poison control centre immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
4.2. Most important symptoms and effects, both acute and delayed	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.
4.3. Indication of any immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

#### **SECTION 5: Firefighting measures**

General fire hazards	No unusual fire or explosion hazards noted.
5.1. Extinguishing media	
Suitable extinguishing media	Not applicable, non-combustible.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire. Not applicable, non-combustible.
5.2. Special hazards arising from the substance or mixture	During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters Special protective equipment for firefighters	None (non-combustible).
Special fire fighting procedures	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.

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

#### 6.1. Personal precautions, protective equipment and emergency procedures

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
Keep unnecessary personnel away. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in Section 8 of the SDS.
Avoid discharge into drains, water courses or onto the ground.
This product is miscible in water.
Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
Never return spills to original containers for re-use.
For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

#### **SECTION 7: Handling and storage**

7.1. Precautions for safe handling	Do not get in eyes, on skin, or on clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
7.2. Conditions for safe storage, including any incompatibilities	Store locked up. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).
7.3. Specific end use(s)	Industrial Formulation with Substance Industrial Use in Metal Finishing Applications Observe industrial sector guidance on best practices.

### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

#### **Occupational exposure limits**

#### Austria. MAK List, OEL Ordinance (GwV), BGBI. II, no. 184/2001, as amended

Impurities	Туре	Value	Form	
Sulphuric acid (CAS 7664-93-9)	Ceiling	0,2 mg/m3	Inhalable fraction.	_
	MAK	0,1 mg/m3	Inhalable fraction.	

## Belgium. OEL. Exposure Limit Values to Chemical Substances at Work, Code of Well-being at work, Book VI, Title 1 - Chemical agents, as amended

Impurities	Туре	Value	Form
Sulphuric acid (CAS 7664-93-9)	TWA	0,2 mg/m3	Mist.
Bulgaria. OELs. Ordinance No amended	13 on protection of workers aga	inst risks of exposure to chem	iical agents at work, as
Impurities	Туре	Value	Form
Sulphuric acid (CAS 7664-93-9)	TWA	0,05 mg/m3	Aerosol, inhalable.
Croatia. OELs (GVI). Regulatio Biological Limit Values, Annex	n on Protection of Workers agair ( I (NN 91/2018), as amended	nst Exposure to Dangerous Ch	nemicals at Work, OELs an
Impurities	Туре	Value	
Sulphuria agid (CAS	MAC	0.05 mg/m2	

Sulphuric acid (CAS	MAC	0,05 mg/m3
7664-93-9)		

Impurities	Туре	Value	Form
Sulphuric acid (CAS 7664-93-9)	TWA	0,05 mg/m3	Thoracic fraction.
Czech Republic. Occupational exp 861/2007, Annex 2, Part A & Annex		s at work (Decree on protect	ion of health at work,
Impurities	Туре	Value	Form
Sulphuric acid (CAS 7664-93-9)	Ceiling	2 mg/m3	Thoracic fraction.
	TWA	1 mg/m3	Thoracic fraction.
		0,05 mg/m3	mist, thoracic fraction
Denmark. Work Environment Authompurities	ority. Exposure Limits for Sub Type	stances & Materials, Annex 2 Value	2 Form
Phthalic acid (CAS 88-99-3)	STEL	6 mg/m3	
	TLV	3 mg/m3	
Sulphuric acid (CAS 7664-93-9)	STEL	0,1 mg/m3	mist, thoracic fraction
··· ··· ··· ··· ··· ··· ···· ··· ······	TLV	0,05 mg/m3	mist, thoracic fraction
Estonia. OELs. Occupational Expo mpurities	sure Limits of Hazardous Sub Type	stances (Regulation No. 105/ Value	2001, Annex), as amende Form
Phthalic acid (CAS 88-99-3)	STEL	5 mg/m3	
	TWA	3 mg/m3	
Sulphuric acid (CAS 7664-93-9)	TWA	0,05 mg/m3	Mist.
Finland. HTP-arvot, App 3., Binding	g Limit Values, Social Affairs a Type	and Ministry of Health Value	Form
Sulphuric acid (CAS 7664-93-9)	STEL	0,1 mg/m3	Thoracic fraction.
00+00-0)	TWA	0,05 mg/m3	Thoracic fraction.
France. OELs. Indicative Occupation mpurities	onal Exposure Limits as Presc Type	ribed by Order of 30 June 20 Value	04, as amended Form
Sulphuric acid (CAS	VME	0,05 mg/m3	Thoracic fraction.
7664-93-9) France. Threshold Limit Values (VL mpurities	EP) for Occupational Exposu. Type	re to Chemicals in France, IN Value	IRS ED 984 Form
Sulphuric acid (CAS	VLE	3 mg/m3	
7664-93-9)			
Regulatory status: Indicative	VME	0,05 mg/m3	Thoracic fraction.
Regulatory status: Regulator	viii⊏ y indicative (VRI)	0,00 mg/mo	
Germany. DFG MAK List (advisory n the Work Area (DFG), as updated	OELs). Commission for the In	vestigation of Health Hazard	s of Chemical Compoun
mpurities	Туре	Value	Form
Sulphuric acid (CAS 7664-93-9)	TWA	0,1 mg/m3	Inhalable fraction.
Germany. TRGS 900, Limit Values mpurities	in the Ambient Air at the Work Type	xplace Value	Form
Sulphuric acid (CAS 7664-93-9)	AGW	0,1 mg/m3	Inhalable fraction.
	No. 307/1986 as amondod		
Greece. OELs, Presidential Decree Impurities	Type	Value	Form

Hungary. OELs. Decree on protect Impurities	ion of workers exposed to che Type	emical agents (5/2020. (II.6)), / Value	Annex 1&2, as amended
Sulphuric acid (CAS 7664-93-9)	TWA	0,05 mg/m3	
Iceland. OELs. Regulation 390/200 Impurities	9 on Pollution Limits and Mea Type	sures to Reduce Pollution at Value	the Workplace, as amended Form
Sulphuric acid (CAS 7664-93-9)	TWA	0,05 mg/m3	Mist.
Ireland. OELVs, Schedules 1 & 2, 0 Impurities	ode of Practice for Chemical Type	Agents and Carcinogens Reg Value	julations
Sulphuric acid (CAS 7664-93-9)	TWA	0,05 mg/m3	
Italy. OELs (Legislative Decree n.8 Impurities	1, 9 April 2008), as amended Type	Value	Form
Sulphuric acid (CAS 7664-93-9)	TWA	0,05 mg/m3	Mist.
Latvia. OELs. Occupational Expos 1), as amended	ure Limits of Chemical Substa	ances at Workplace (Reg. No.	325/ 2007, L.V. 80, Annex
Impurities	Туре	Value	
Sulphuric acid (CAS 7664-93-9)	TWA	0,05 mg/m3	
Lithuania. OELs. Occupational Exp V-824/A1-389), as amended	oosure Limit Values for Chem	ical Substances (Hygiene Nor	m HN 23:2011; Order No.
Impurities	Туре	Value	Form
Phthalic acid (CAS 88-99-3)	STEL	5 mg/m3	
	TWA	3 mg/m3	
Sulphuric acid (CAS 7664-93-9)	STEL	3 mg/m3	Mist.
	TWA	0,05 mg/m3	Mist.
Luxembourg. OELs. Binding Occu n ° 235/2016, as amended	pational Exposure Limit Value	es (Annex I), G.D.R. of 14 Nov	ember 2016, OJ Memorial A,
Impurities	Туре	Value	Form
Sulphuric acid (CAS 7664-93-9)	TWA	0,05 mg/m3	Thoracic fraction.
Malta. OELs. Protection of Health a Schedules I and V), as amended	and Safety of Workers from Ri	sks related to Chemical Ager	nts at Work (L.N 227/2003
Impurities	Туре	Value	Form
Sulphuric acid (CAS 7664-93-9)	TWA	0,05 mg/m3	Thoracic fraction.
Netherlands. OELs per Annex XIII amended	of Working Conditions Regula	ntion (Staatscourant no. 252, 2	29 December 2006), as
Impurities	Туре	Value	Form
Sulphuric acid (CAS 7664-93-9)	TWA	0,05 mg/m3	Thoracic fraction.
Norway. Regulation No. 1358 on M Infection Groups for Biological Fac		-	
Impurities	Туре	Value	Form
Sulphuric acid (CAS 7664-93-9)	TLV	0,1 mg/m3	Thoracic fraction.
Poland. Maximum permissible con 1286/2018, Annex 1)			·
Impurities	Туре	Value	Form
Sulphuric acid (CAS 7664-93-9)	TWA	0,05 mg/m3	Thoracic fraction.

Impurities	24/2012, Occupational Exposure Limit Value Type	Value	Form
Sulphuric acid (CAS 7664-93-9)	TWA	0,05 mg/m3	Respirable mist and Inhalable mist
Portugal. VLEs. Norm on o Impurities	occupational exposure to chemical agents (N Type	NP 1796-2014) Value	Form
Sulphuric acid (CAS 7664-93-9)	TWA	0,2 mg/m3	Thoracic fraction.
Romania. OELs. Limit Valu	ues of Chemical Agents at Workplace (Regul	lation 1.218/2006, M.O 8	845, Annex 1, 3&4, as
amended)	<b>T</b>	Malaa	Form
Impurities	Туре	Value	Form
Sulphuric acid (CAS 7664-93-9)	TWA	0,05 mg/m3	Thoracic fraction.
	permissible exposure limits for chemical factor	ctors in workplace air (	Regulation No 355/2006,
Annex 1, Table 1, as amen Impurities	ded) Type	Value	
Sulphuric acid (CAS	TWA	0,05 mg/m3	
7664-93-9)	IWA	0,05 mg/m3	
	onal Exposure Limits of Chemicals at Workp	lace (Reg. on Protectio	n of Workers from Risks
due to Exp. to Chemicals a Impurities	at Work, Ann. I 100/2001), as amended Type	Value	Form
Sulphuric acid (CAS	KTV	0,05 mg/m3	Inhalable fraction.
7664-93-9)			
	onal Exposure Limits of Chemicals at Workp at Work, Annex I), as amended	lace (Reg. on Protectio	n of Workers from Risks
Impurities	Type	Value	Form
Sulphuric acid (CAS 7664-93-9)	TWA	0,05 mg/m3	Inhalable fraction.
,	es de Exposición Profesional Para Agentes	Químicos Table 1-Valo	res I ímites Ambientales
(VLAs)			
Impurities	Туре	Value	Form
Sulphuric acid (CAS 7664-93-9)	TWA	0,05 mg/m3	Mist.
Sweden. OELs (Annex 1).	Work Environment Authority (AV), Occupation	onal Exposure Limit Va	lues (AFS 2018:1), as
amended	-	N/ I	<b>F</b> a ma
Impurities	Туре	Value	Form
Phthalic acid (CAS 88-99-3)		5 mg/m3	
	TWA	3 mg/m3	
Sulphuric acid (CAS 7664-93-9)	STEL	0,2 mg/m3	Inhalable dust.
	TWA	0,1 mg/m3	Inhalable dust.
Switzerland. SUVA Grenzw Impurities	verte am Arbeitsplatz: Aktuelle MAK-Werte	Value	Form
	Туре		-
Sulphuric acid (CAS 7664-93-9)	STEL	0,2 mg/m3	Inhalable fraction.
	TWA	0,1 mg/m3	Inhalable fraction.
UK. OELs. Workplace Expe Impurities	osure Limits (WELs) (EH40/2005 (Fourth Edi Type	tion 2020)), Table 1 Value	
Sulphuric acid (CAS 7664-93-9)	TWA	0,05 mg/m3	
,	mit Values in Directives 91/322/EEC, 2000/39 Type	9/EC, 2006/15/EC, 2009/ Value	161/EU, 2017/164/EU Form
	-	0.05 / 0	Mist.
Sulphuric acid (CAS	TWA	0,05 mg/m3	IVIISt.
7664-93-9)			imist.
7664-93-9) ogical limit values	No biological exposure limits noted for the ir		iviist.
7664-93-9)			мнэт.

#### Derived no effect levels (DNELs)

Components	Value	Assessment factor	Notes
	alic acid and 3-sulphophthalic acid	(CAS N/A)	
Long-term, Systemic, Dern Long-term, Systemic, Inha Long-term, Systemic, Oral			
<u>Workers</u>			
Components	Value	Assessment factor	Notes
Reaction Mass of 4-sulphophth	alic acid and 3-sulphophthalic acid	(CAS N/A)	
Long-term, Systemic, Dern Long-term, Systemic, Inha			
edicted no effect concentration	s (PNECs)		
Components	Value	Assessment factor	Notes
Reaction Mass of 4-sulphophth	alic acid and 3-sulphophthalic acid	(CAS N/A)	
Freshwater Marine water Sediment (freshwater) Sediment (marine water) Soil	0,088 mg/l 0,088 mg/l 0,26 mg/kg 0,026 mg/kg 133,5 mg/kg		
2. Exposure controls			
propriate engineering ntrols	Good general ventilation should be applicable, use process enclosures maintain airborne levels below rec established, maintain airborne levels shower must be available when ha	s, local exhaust ventilation, or otl ommended exposure limits. If ex els to an acceptable level. Eye w	ner engineering controls to posure limits have not been
lividual protection measures, s	uch as personal protective equip	oment	
General information	Use personal protective equipmen according to the CEN standards an equipment.		
Eye/face protection	Wear safety glasses with side shie	lds (or goggles) and a face shiel	d.
Skin protection			
- Hand protection	Use protective gloves made of: Bu (natural, latex).	tyl rubber. Neoprene. Nitrile. Pol	yvinyl chloride (PVC). Rubber
- Other	Wear appropriate chemical resista	nt clothing.	
Respiratory protection	In case of insufficient ventilation, w	ear suitable respiratory equipme	ent.
Thermal hazards	Wear appropriate thermal protectiv	e clothing, when necessary.	
giene measures	Always observe good personal hy and before eating, drinking, and/or equipment to remove contaminant	smoking. Routinely wash work	
	Emissions from ventilation or work	process equipment should be cl	necked to ensure they comply

## **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Form	Liquid.
Colour	Amber
Odour	Odourless.
Melting point/freezing point	Not available.
Boiling point or initial boiling point and boiling range	Not available.
Flammability	Not applicable.
Upper/lower flammability or expl	osive limits
Explosive limit - lower ( %)	Not available.
Explosive limit – upper (%)	Not available.
Flash point	Cleveland open cup , flame extinguished; none to boiling

Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
рН	<2
Kinematic viscosity	Not available.
Solubility	
Solubility (water)	Miscible
Partition coefficient (n-octanol/water) (log value)	Not available.
Vapour pressure	Not available.
Density and/or relative density	
Density	10,80 lb/gal
Vapour density	Not available.
Particle characteristics	Not available.
9.2. Other information	
9.2.1. Information with regard to physical hazard classes	No relevant additional information available.
9.2.2. Other safety characteristic	S
Molecular weight	326
Specific gravity	1,29 @21°C
Viscosity	11 cP @ 25 deg C
SECTION 10: Stability and	reactivity
10.1 Reactivity	The product is stable and non-reactive under normal conditions of use storage and transport

10.1. Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability	Material is stable under normal conditions.
10.3. Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
10.4. Conditions to avoid	Avoid temperatures exceeding the decomposition temperature. Contact with incompatible materials.
10.5. Incompatible materials	Strong oxidising agents.
10.6. Hazardous decomposition products	No hazardous decomposition products are known.

### **SECTION 11: Toxicological information**

General information Occupational exposure to the substance or mixture may cause adverse effects.

#### Information on likely routes of exposure

Inhalation	May cause irritation to the respiratory system.
Skin contact	Causes severe skin burns.
Eye contact	Causes serious eye damage.
Ingestion	Causes digestive tract burns.
Symptoms	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity	Not known.	
Toxicological data		
Impurities	Species	Test Results
Phthalic acid (CAS 88-99-3)		
Acute		
Inhalation		
Aerosol		
LC50	Rat	> 5058 mg/m3, 4 Hours
Oral		
LD50	Mouse	> 5000 mg/kg
		2,53 g/kg

Impurities	Species	Test Results
Sulphuric acid (CAS 7664-93-9)		
Acute		
Inhalation		
LC50	Rat	375 mg/m3, 4 h
		0,375 mg/l, 4 Hours
Oral		
LD50	Rat	2140 mg/kg
Skin corrosion/irritation	Causes severe skin burns and eye damage.	
Serious eye damage/eye irritation	Causes serious eye damage.	
Respiratory sensitisation	Not a respiratory sensitiser.	
Skin sensitisation	This product is not expected to cause skin sensitisa	tion.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity	IARC has concluded that "occupational exposure to strong inorganic mists containing sulfuric acid is carcinogenic for humans (Group 1)". This product is not expected to be present in the form of inorganic mist during normal use.	
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.	
Specific target organ toxicity - single exposure	Not classified.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not an aspiration hazard.	
Mixture versus substance information	No information available.	
11.2. Information on other hazar	rds	
Endocrine disrupting properties	This mixture does not contain any substances havin to human health as assessed in accordance with the 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, 0.1% by weight.	e criteria set out in Regulations (EC) No
Other information	This product does not contain any substances prese are included in the Candidate List for Authorisation t are identified as having endocrine disrupting proper Commission Delegated Regulation (EU) 2017/2100	for having endocrine disrupting properties or ties in accordance with the criteria set out in
SECTION 12: Ecological in	nformation	

## **SECTION 12: Ecological information**

**12.1. Toxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Impurities		Species	Test Results
Phthalic acid (CAS 88-99-3	3)		
Aquatic			
Acute			
Algae	NOEC	Algae	> 100 mg/l, 72 h
Crustacea	EC50	Daphnia magna	> 640 mg/l, 48 h
Chronic			
Crustacea	NOEC	Daphnia magna	16 mg/l, 21 d Analogous material Phthalic anhydride
Fish	NOEC	Oncorhynchus mykiss	10 mg/l, 60 d Analogous material Phthalic anhydride
Sulphuric acid (CAS 7664-	93-9)		
Aquatic			
Acute			
Algae	EC50	Algae	> 100 mg/l, 72 h
Crustacea	EC50	Daphnia	> 100 mg/l, 48 h
Fish	LC50	Bluegill (Lepomis macrochirus)	> 16 - < 28 mg/l, 96 h
Chronic			
Crustacea	NOEC	Daphnia	0,15 mg/l, 35 d

Impurities		Species	Test Results
Fish	NOEC	Fish	0,025 mg/l, 65 d
12.2. Persistence and degradability	This proc	luct is expected to be	readily biodegradable.
12.3. Bioaccumulative potential			
Partition coefficient n-octanol/water (log Kow) Reaction Mass of 4-sulphoph	thalic acid a	and 3-sulphophthalic	-2,09, @ 25°C
acid Phthalic acid Sulphuric acid			0,73 -2,2
Bioconcentration factor (BCF)	Not avail	able.	
12.4. Mobility in soil	This proc	luct is miscible in wat	er and may not disperse in soil.
12.5. Results of PBT and vPvB assessment		ure does not contain 1907/2006, Annex XI	substances assessed to be vPvB / PBT according to Regulation II.
12.6. Endocrine disrupting properties	to the en	vironment as assesse 6, (EU) No 2017/210	any substances having endocrine disrupting properties with respect ed in accordance with the criteria set out in Regulations (EC) No 0 and (EU) 2018/605, at a concentration equal to or greater than
12.7. Other adverse effects			tal effects (e.g. ozone depletion, photochemical ozone creation , global warming potential) are expected from this component.

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Residual waste	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.
EU waste code	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Disposal methods/information	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Discourage sewage disposal. Waste should not be disposed of by release to sewers. Dispose of contents/container in accordance with local/regional/national/international regulations.
Special precautions	Dispose in accordance with all applicable regulations.

## **SECTION 14: Transport information**

#### ADR

	14.1. UN number	UN3265		
	14.2. UN proper shipping name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (4-SULFO-1,2-BENZENEDICARBOXYLIC ACID)		
	14.3. Transport hazard class	,		
	-			
	Class	8		
	Subsidiary hazard	-		
	Label(s)	8		
	Hazard No. (ADR)	80		
	Tunnel restriction code	E		
	14.4. Packing group			
	14.5. Environmental hazards	No.		
	14.6. Special precautions	Read safety instructions, SDS and emergency procedures before handling.		
	for user			
RID				
	14.1. UN number	UN3265		
	14.2. UN proper shipping name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (4-SULFO-1,2-BENZENEDICARBOXYLIC ACID)		
	14.3. Transport hazard class(es)			
	Class	8		
	Subsidiary hazard	-		
	Label(s)	8		
	14.4. Packing group	II		
	14.5. Environmental hazards	No.		
	14.6. Special precautions	Read safety instructions, SDS and emergency procedures before handling.		
	for user			

ADN					
14.1. UN number	UN3265				
14.2. UN proper shipping	Corrosive Liquid, Organic, N.o.s. (4-sulfo-1,2-Benzenedicarboxylic acid)				
name					
14.3. Transport hazard class	14.3. Transport hazard class(es)				
Class	8				
Subsidiary hazard	-				
Label(s)	8				
14.4. Packing group	II				
14.5. Environmental hazards	No.				
14.6. Special precautions	Read safety instructions, SDS and emergency procedures before handling.				
for user					
ΙΑΤΑ					
14.1. UN number	UN3265				
14.2. UN proper shipping	Corrosive liquid, acidic, organic, n.o.s. (4-sulfo-1,2-Benzenedicarboxylic acid)				
name					
14.3. Transport hazard class	(es)				
Class	8				
Subsidiary hazard	-				
14.4. Packing group					
14.5. Environmental hazards					
ERG Code	8L				
14.6. Special precautions	Read safety instructions, SDS and emergency procedures before handling.				
for user					
Other information					
Passenger and cargo aircraft	Allowed with restrictions.				
Cargo aircraft only	Allowed with restrictions.				
IMDG					
14.1. UN number	UN3265				
14.2. UN proper shipping	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (4-SULFO-1,2-BENZENEDICARBOXYLIC				
name	ACID)				
14.3. Transport hazard class	•				
Class	8				
Subsidiary hazard	-				
14.4. Packing group	II.				
14.5. Environmental hazards					
Marine pollutant	No.				
EmS	F-A, S-B				
14.6. Special precautions	Read safety instructions, SDS and emergency procedures before handling.				
for user					
14.7. Transport in bulk	Not established.				
according to Annex II of					
MARPOL 73/78 and the IBC					
Code					
ADN; ADR; IATA; IMDG; RID					
$\land$					



## **SECTION 15: Regulatory information**

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

# Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended Not listed.

Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended Not listed. Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended Not listed Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended Not listed. Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended Not listed. Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended Not listed Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended Not listed. Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Not listed. Authorisations Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended Not listed. Restrictions on use Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use, as amended - Conditions of restriction given for the associated entry number should be considered Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended. Not listed. Regulation 2019/1148 on Marketing and Use of Explosive Precursors, Annex I, as amended Not listed. Regulation 2019/1148 on Marketing and Use of Explosive Precursors, Annex II, as amended Not listed. The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Other regulations Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended. Young people under 18 years old are not allowed to work with this product according to EU National regulations Directive 94/33/EC on the protection of young people at work, as amended Use of this product by young persons under the age of 18 is not allowed in accordance with the Management of Health and Safety at Work Regulations 1999 [SI 1999/3242], as amended. Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended. France regulations France INRS Table of Occupational Diseases Not regulated. 15.2. Chemical safety Chemical Safety Assessment has been carried out. Exposure scenarios relevant for this material are annexed and distributed as seperate document to this eSDS. assessment **SECTION 16: Other information** List of abbreviations ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways. ADR: Agreement concerning the International Carriage of Dangerous Goods by Road. AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert - Germany). CAS: Chemical Abstract Service. CEN: European Committee for Standardization. IATA: International Air Transport Association. IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk.

IMDG: International Maritime Dangerous Goods. MAC: Maximum Allowed Concentration.

MARPOL: International Convention for the Prevention of Pollution from Ships.

PBT: Persistent, bioaccumulative and toxic.

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.

STEL: Short term exposure limit.

TLV: Threshold Limit Value.

TWA: Time Weighted Average.

VLE: Exposure Limit Value.

VME: Exposure Average Value.

vPvB: Very persistent and very bioaccumulative.

References Information on evaluation method leading to the classification of mixture	Not available. The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.	
Full text of any statements, which are not written out in full under sections 2 to 15	H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage.	
Revision information	Product and Company Identification: EU Poison Centre SECTION 2: Hazards identification: Prevention SECTION 3: Composition/information on ingredients: Component information SECTION 6: Accidental release measures: For non-emergency personnel SECTION 7: Handling and storage: 7,1. Precautions for safe handling SECTION 13: Disposal considerations: Disposal methods/information	
Training information	Follow training instructions when handling this material.	
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