MACHEREY-NAGEI



according to Regulations 1907/2006/EC (REACh) and 2015/830/EU

REF: 740387.1000	Buffer LYS-EF (1000 mL)	Page: 1/7
Printing date: 12.05.2021	Date of issue: 11.12.2020	

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

1.1 **Product identifier**

REF Product name

740387.1000 Buffer LYS-EF (1000 mL)

REACH Registration number(s): see SECTION 3.1/3.2 or A registration number for the substance(s) does not exist because the annual tonnage does not require registration or the substance or its use is excluded from registration.

1 x 1000 mL LYS-EF

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

Product for analytical use. Exposure Scenario Classification according REACh, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0 The exposure scenario is integrated into sections 1-16. Uses advised against not described

1.3 Details of the supplier of the safety data sheet

Manufactured by:

MACHEREY-NAGEL GmbH & Co. KG Valencienner Str. 11, 52355 Düren, GERMANY Tel.: +49 2421 969 0

E-mail: sds@mn-net.com (msds@mn-net.com)

1.4 Emergency telephone number

Outside Germany (DE): Call your regional Poisons Information Service or call local Life Saving Service. DE: Gemeinsames Giftinformationszentrum (GGIZ) 99089 Erfurt tel. +49 361 730 730

You find our current versions of SDS (22 languages) in Internet:

http://www.mn-net.com/SDS

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

1000 mL LYS-EF

	GHS07	
Signal word	WARNING	
Hazard identification	Hazard classes/categories	
H315 H319	Skin Irrit. 2 Eye Irrit. 2	

2.2 Label elements

According CLP directive inner packages must be only labelled with GHS symbol(s) and product identificator(s) (EU 1272/2008 Annex I - 1.5.1.2).

Harmful chemicals/mixtures with signal word: WARNING must not be labelled with H and P phrases until 125 mL (EU 1272/2008 Annex I - 1.5.2).

1000 mL LYS-EF





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Safety Data Sheet

according to Regulations 1907/2006/EC (REACh) and 2015/830/EU

	0387.1000 date: 12.05.2021	Buffer LYS-EF(Date of issue: 1	,	Page
i i i i i i i i i i i i i i i i i i i			1.12.2020	
	Signal word: WA	ARNING		
	H315, H319 Causes skin irrit	ation. Causes serious eye irritation.		
	P280sh Wear protective	gloves/eye protection.		
2.3	Other hazards			
		ohysicochemical properties are less than 5 or higher than 9 then	it is irritant	
	Information pertaining t	o particular risks to human and p	ossible symptoms	
	Information pertaining t PBT: not applica vPvB: not applica		ent	
	Other hazards			
SECTI	ION 3: Composition/	information on ingredi	ents	
3.1	Substances or 3.2 Mix	tures		
	1000 mL LYS-EF Chemical: so	odium hydroxide solution (diluted < 2	0 0/)	CAS No.: 1310-73-2d
	Classification:	H314, Skin Corr. 1B	. 70)	CAS NO.: 1310-73-20
	Formula:	NaOH•H ₂ O diluted soda lye		
	FSeudonvin.			
	Pseudonym: TSCA Inventory			
	TSCA Inventory REACH Reg. No	o.: 01-2119457892-27-xxxx	Indice No.:	011-002-00-6
	TSCA Inventory REACH Reg. N EC No.: RTECS:	 D: 01-2119457892-27-xxxx 215-185-5 WB4900000 	Indice No.:	011-002-00-6
	TSCA Inventory REACH Reg. N EC No.: RTECS: KE No.:	 D: 01-2119457892-27-xxxx 215-185-5 WB4900000 KE-31487 	Indice No.:	011-002-00-6
	TSCA Inventory REACH Reg. N EC No.: RTECS:	 D:: 01-2119457892-27-xxxx 215-185-5 WB4900000 KE-31487 0.5 - <1 % 		011-002-00-6
	TSCA Inventory REACH Reg. No EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS)	b.: 01-2119457892-27-xxxx 215-185-5 WB4900000 KE-31487 0.5 - <1 % I: H315, Skin Irrit. 2, H319, Eye		
	TSCA Inventory REACH Reg. No EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS) Chemical: Classification: Tox. 4 inh., H33	 b.: 01-2119457892-27-xxxx 215-185-5 WB4900000 KE-31487 0.5 - <1 % b.: H315, Skin Irrit. 2, H319, Eye b.: b.: H315, Skin Irrit. 2, H319, Eye b.: H315, Skin Irrit. 2, H319, Eye b.: H315, Skin Irrit. 2, H319, Eye 	Irrit. 2 ute Tox. 4 oral, H315, S	011-002-00-6 CAS No.: 151-21-3 kin Irrit. 2, H318, Eye Dam. 1, H332, Acute
	TSCA Inventory REACH Reg. No EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS) Chemical: Classification: Tox. 4 inh., H33 Formula: Pseudonym:	 b.: 01-2119457892-27-xxxx 215-185-5 WB4900000 KE-31487 0.5 - <1 % b: H315, Skin Irrit. 2, H319, Eye b: H315, Skin Irrit. 2, H319, Eye b: H315, Skin Irrit. 2, H319, Eye c) H315, Skin Irrit. 2, H31	Irrit. 2 ute Tox. 4 oral, H315, S iic 3	CAS No.: 151-21-3 kin Irrit. 2, H318, Eye Dam. 1, H332, Acute
	TSCA Inventory REACH Reg. No. EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS) Chemical: Classification: Tox. 4 inh., H33 Formula: Pseudonym: TSCA Inventory	 b.: 01-2119457892-27-xxxx 215-185-5 WB4900000 KE-31487 0.5 - <1 % b: H315, Skin Irrit. 2, H319, Eye c) <i>decyl sulfate, sodium salt</i> H228, Flam. Sol. 1, H302, Ac 5, STOT SE 3, H412, Aquatic Chror C₁₂ H₂₅ NaO₄ S sodium lauryl sulfate, sulfuric c) listed 	Irrit. 2 ute Tox. 4 oral, H315, S iic 3	CAS No.: 151-21-3 kin Irrit. 2, H318, Eye Dam. 1, H332, Acute
	TSCA Inventory REACH Reg. No EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS) Chemical: Classification: Tox. 4 inh., H33 Formula: Pseudonym:	 b.: 01-2119457892-27-xxxx 215-185-5 WB4900000 KE-31487 0.5 - <1 % b: H315, Skin Irrit. 2, H319, Eye c) <i>decyl sulfate, sodium salt</i> H228, Flam. Sol. 1, H302, Ac 5, STOT SE 3, H412, Aquatic Chror C₁₂ H₂₅ NaO₄ S sodium lauryl sulfate, sulfuric c) listed 	Irrit. 2 ute Tox. 4 oral, H315, S iic 3	CAS No.: 151-21-3 kin Irrit. 2, H318, Eye Dam. 1, H332, Acute
	TSCA Inventory REACH Reg. No EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS) Chemical: <i>du</i> Classification: Tox. 4 inh., H33 Formula: Pseudonym: TSCA Inventory REACH Reg. No EC No.: RTECS:	 b.: 01-2119457892-27-xxxx 215-185-5 WB4900000 KE-31487 0.5 - <1 % b: H315, Skin Irrit. 2, H319, Eye b: H315, Skin Irrit. 2, H319, Eye b: Cliptic Science S	Irrit. 2 ute Tox. 4 oral, H315, S iic 3	CAS No.: 151-21-3 kin Irrit. 2, H318, Eye Dam. 1, H332, Acute
	TSCA Inventory REACH Reg. No EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS) Chemical: du Classification: Tox. 4 inh., H33 Formula: Pseudonym: TSCA Inventory REACH Reg. No EC No.: RTECS: KE No.:	 D: 01-2119457892-27-xxxx 215-185-5 WB4900000 KE-31487 0.5 - <1 % H315, Skin Irrit. 2, H319, Eye H315, Skin Irrit. 2, H319, Eye Ddecyl sulfate, sodium salt H228, Flam. Sol. 1, H302, Ac STOT SE 3, H412, Aquatic Chror C12 H25 NaO4 S sodium lauryl sulfate, sulfuric listed 01-2119489461-32-xxxx 205-788-1 WT1050000 KE-21884 	Irrit. 2 ute Tox. 4 oral, H315, S nic 3 acid monododecyl ester	CAS No.: 151-21-3 kin Irrit. 2, H318, Eye Dam. 1, H332, Acute ⁻ sodium salt
	TSCA Inventory REACH Reg. No EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS) Chemical: <i>du</i> Classification: Tox. 4 inh., H33 Formula: Pseudonym: TSCA Inventory REACH Reg. No EC No.: RTECS:	 D:: 01-2119457892-27-xxxx 215-185-5 WB4900000 KE-31487 0.5 - <1 % H315, Skin Irrit. 2, H319, Eye H315, Skin Irrit. 2, H319, Eye Ddecyl sulfate, sodium salt H228, Flam. Sol. 1, H302, Ac STOT SE 3, H412, Aquatic Chror C12 H25 NaO4 S sodium lauryl sulfate, sulfuric listed 01-2119489461-32-xxxx 205-788-1 WT1050000 KE-21884 0.1 - <1 % 	Irrit. 2 ute Tox. 4 oral, H315, S nic 3 acid monododecyl ester MFCD:	CAS No.: 151-21-3 kin Irrit. 2, H318, Eye Dam. 1, H332, Acute ⁻ sodium salt
	TSCA Inventory REACH Reg. No EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS) Chemical: <i>de</i> Classification: Tox. 4 inh., H33 Formula: Pseudonym: TSCA Inventory REACH Reg. No EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS)	b.: 01-2119457892-27-xxxx 215-185-5 WB4900000 KE-31487 0.5 - <1 % H315, Skin Irrit. 2, H319, Eye bdecyl sulfate, sodium salt H228, Flam. Sol. 1, H302, Ac 5, STOT SE 3, H412, Aquatic Chror C ₁₂ H ₂₅ NaO ₄ S sodium lauryl sulfate, sulfuric : listed b.: 01-2119489461-32-xxxx 205-788-1 WT1050000 KE-21884 0.1 - <1 % C	Irrit. 2 ute Tox. 4 oral, H315, S nic 3 acid monododecyl ester MFCD:	CAS No.: 151-21-3 kin Irrit. 2, H318, Eye Dam. 1, H332, Acute ⁻ sodium salt
	TSCA Inventory REACH Reg. No EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS) Chemical: <i>du</i> Classification: Tox. 4 inh., H33 Formula: Pseudonym: TSCA Inventory REACH Reg. No EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS) Chemical: <i>in</i> Classification:	 D1-2119457892-27-xxxx 215-185-5 WB4900000 KE-31487 0.5 - <1 % H315, Skin Irrit. 2, H319, Eye H315, Skin Irrit. 2, H319, Eye Ddecyl sulfate, sodium salt H228, Flam. Sol. 1, H302, Ac STOT SE 3, H412, Aquatic Chror C12 H25 NaO4 S sodium lauryl sulfate, sulfuric listed 01-2119489461-32-xxxx 205-788-1 WT1050000 KE-21884 0.1 - <1 % The criteria for classification are not f dicator dye(s) No criteria for classification or naming 	Irrit. 2 ute Tox. 4 oral, H315, S iic 3 acid monododecyl ester MFCD: ulfilled.	CAS No.: 151-21-3 kin Irrit. 2, H318, Eye Dam. 1, H332, Acute ⁻ sodium salt 00036175
	TSCA Inventory REACH Reg. No EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS) Chemical: Classification: Tox. 4 inh., H33 Formula: Pseudonym: TSCA Inventory REACH Reg. No EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS)	 D1-2119457892-27-xxxx 215-185-5 WB4900000 KE-31487 0.5 - <1 % H315, Skin Irrit. 2, H319, Eye H315, Skin Irrit. 2, H319, Eye bdecyl sulfate, sodium salt H228, Flam. Sol. 1, H302, Ac STOT SE 3, H412, Aquatic Chror C12 H25 NaO4 S sodium lauryl sulfate, sulfuric listed 01-2119489461-32-xxxx 205-788-1 WT1050000 KE-21884 0.1 - <1 % The criteria for classification are not f dicator dye(s) No criteria for classification or naming 	Irrit. 2 ute Tox. 4 oral, H315, S iic 3 acid monododecyl ester MFCD: ulfilled.	CAS No.: 151-21-3 kin Irrit. 2, H318, Eye Dam. 1, H332, Acute ⁻ sodium salt 00036175

3.3 Remarks

When not listed, mixtures are added with water [CAS No. 7732-18-5] to 100%.

List of H and P phrases: see section 16.1



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according to Regulations 1907/2006/EC (REACh) and 2015/830/EU

REF: 740387.1000	Buffer LYS-EF (1000 mL)	Page: 3/7
Printing date: 12.05.2021	Date of issue: 11.12.2020	

SECTION 4: First aid measures

4.1 Description of first aid measures

Place insured person out of danger zone to fresh air immediately. Ensure quiet, warmth, and provide resuscitation if necessary. If necessary contact medical advice.

4.1.1 After SKIN Contact

Remove contaminated clothing immediately. Rinse the affected skin or mucous membrane thoroughly for min. 15 minutes under running water. (If possible) use soap. Avoid neutralisation. Then apply a loose bandage.

4.1.2 After EYE Contact

After contact with the eyes rinse thoroughly under running water with the eyelid wide open for min. 10 minutes with eye washing bottle, eye douche or running water (protect intact eye). Before (if possible) apply eye drops Proxymetacaine 0.5%, if the opening the eyelid convulsion is painful. Further treatment to be carried out by an eye specialist.

4.1.3 After INHALATION of vapours

After inhalation of foam or vapour fresh air should be inhaled. Keep airways free. ---

4.1.4 After ORAL Intake

After oral intake lots of water with activated charcoal supplement should be drunk after it has been ingested. Do not induce vomiting under any circumstances. Do not make any efforts to neutralise it. Contact medical advice for possible consequences. ---

4.2 Most important symptoms and effects, both acute and delayed

4.3 Indication of any immediate medical attention and special treatment needed

After SKIN CONTACT rinse with water for a long time. Apply glucocorticosteroides following inflammatory reactions. After EYE CONTACT rinse immediately with plenty of water for a long time. Eyelid convulsion measures. Name the corrosive chemical. Further treatment must to be carried out by an eye specialist. ---

SECTION 5: Firefighting measures

5.1 Extinguishing media

Fire extinguishers appropriate to the fire classification, and, if applicable, a fire blanket must be available in a prominent location in the work area. All extinguishers like FOAM, WATER SPRAY, DRY POWDER, CARBON DIOXIDE can be used.

5.2 Special hazards arising from the substance or mixture

Formation of hazardous and caustic vapour-air mixtures possible. ---

5.3 Advice for firefighters

No, for listed product. Product package burns like paper or plastic. Spray any vapours released with water. Retent fire water. Use only acid-resistant safety equipment.

E-mail: sales-fr@mn-net.com

For great amount - if necessary - protective breathing apparatus which is independent of the ambient air (isolated equipment), and sealed protective clothing is necessary in the event of a large-scale formation of toxic substances.

5.4 Additional information

Danger for environment only in the event of a large-scale leakage or formation of hazardous substances. ---

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe vapours. Wear suitable protective gloves (see 8.2.2). Wear eye protection. Regular staff training is necessary.

6.2 Environmental precautions

not necessary

6.3 Methods and material for containment and cleaning up Bind any escaping liquid with inert absorbent. Collect small amounts of leaked liquid and flush with water into drains.

6.4 Reference to other sections

see information in section 5.4 ---



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according to Regulations 1907/2006/EC (REACh) and 2015/830/EU

REF: 740387.1000 Printing date: 12.05.2021	Buffer LYS-EF (1000 mL) Date of issue: 11.12.2020	Page: 4/					
ECTION 7: Handling and st	orage						
.1 Precautions for safe hand Handling in accordance with the te	lling est instruction, that comes with the product.						
	ge, including any incompatibilities ACHEREY-NAGEL allows a safe storage. 12 2						
2.1 Requirements for stock roc Keep original product packag	ms and containers es tightly closed during handling and storage.						
.3 Specific end use(s) Product for analytical use.							
ECTION 8: Exposure contro	ols/personal protection						
.1 Control parameters	Control parameters						
1000 mL LYS-EF Chemical: sodium hydrox	ide solution	CAS No.: 1310-73-2d					
Chemical: dodecyl sulfate NIOSH: ITWAI Time-weighted aver	, sodium salt not listed ige to a reference period of 8 hours, [STEL] Short-term exposure limit relate	CAS No.: 151-21-3					
OSHA:	not listed						
Chemical: indicator dye(s)	CAS No.: -					
.2 Exposure controls							
Good ventilation and extraction sy level of cleanliness must be maint	stem in the room, floor resistant to chemicals with floor drain ained at the workplace.	age and washing facilities. The highest					
.2.1 Respiratory protection No additional recommendation	ns.						
.2.2 Hand protection Yes, gloves according EN 37	4 (permeation time >30 min - level 2), consist of PVC (f.ex. fr	rom Ansell or KCL).					
2.3 Eye protection Yes, safety glasses according	g EN 166 with integrated side shields or wrap-around protect	ion.					
2.4 Skin protection Recommended.							
with the skin, eyes and clothin	ing snuff and storage of food in work areas and at outdoor w ng. Rinse any clothing on which the substance has been spil er when stopping work and before eating, and then apply pro	led, and soak it in water. Wash hands					
ECTION 9: Physical and ch	emical properties						

9.1 Information on basic physical and chemical properties

1000 mL LYS-EF		
Appearance: liquid	Colour: blue	Odor: odorless
pH:	13	
Specific gravity:	1.008 g/cm³	

9.2 Other information

Data for the other parameters of the mixtures are not available, because no registration and no chemical safety report is required. **Relevant Properties of Substance Group**



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according to Regulations 1907/2006/EC (REACh) and 2015/830/EU

REF: 740387.1000		Buffer LYS-EF (1000 mL)	Page: 5/7
Printing date: 12.05.2021		Date of issue: 11.12.2020	1 490.011
SEC	FION 10: Stability and re-	activity	
10.1	Reactivity no further data available.		
10.2	Chemical stability No known instability.		

- 10.3 Possibility of hazardous reactions No further data available.
- 10.4 Conditions to avoid Not necessary. ---

10.5 Incompatible materials

Avoid contact with strong acids or alkalines.

10.6 Hazardous decomposition products

In the original package all parts/all reagents are safety and separated stored. Decompositions are not observed during the expiration period under recommended conditions.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Following information is valid for pure substances. Quantitative data on the toxicity of this product are not available.

1000 mL LYS-EF

Chemical: TSCA Inventory: Exposure Routes: Target Organs: Symptoms: Japan CSCL/PRTR: Japan ISHL: Korea Exist.Chem.Int LD50 _o rl rat : LD50 _d rm rbt : LD50 _o rl mus :		Eyes, skin, respirato - not listed, Japan PD listed ≥1,0%/≥1,0% S	SCL: not listed	CAS No.: 1310-73-2d sted
Chemical: TSCA Inventory: Australia NICNAS: Japan CSCL/PRTR: Japan ISHL: South Korea TCCA: Korea Exist.Chem.In LD50 _{orl rat} : LC50 _{inh rat} : LD50 _{drm rbt} :		not listed not listed	California Proposition 65 List: not lis Canada CEPA 1999: DSL y gnated Chemical Substance, Japan P	res
Chemical:	indicate	or dye(s)		CAS No.: -

SECTION 12: Ecological information

TSCA Inventory:

12.1 Toxicity Following information is valid for pure substances. 1000 mL LYS-EF Chemical: sodium hydroxide solution LC50_{leuciscus idus/96h}:

LC50fish/96h EC50_{daphnia/48h} : Water hazard class (DE): nwg Storage class (VCI): 12-13

all listed, <1%

35-189 mg/L 45.4 mg/L >100 mg/L WGK No.: 0142 CAS No.: 1310-73-2d

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Safety Data Sheet

according to Regulations 1907/2006/EC (REACh) and 2015/830/EU

REF: 74	40387.1000	Buffer LYS-EF (1000 mL)	Page: 6/7
Printing	date: 12.05.2021	Date of issue: 11.12.2020	
		lfate, sodium salt	CAS No.: 151-21-3
	LC50 _{daphnia} magna/48h :	6.3 mg/L	
	LC50 _{fish/96h}	1.31-22.5 mg/L	
	Water hazard class (DE):	2	
	Dispersion coefficient _{(octanol-wate}		
	Storage class (VCI):	12-13	
	Chemical: indicator d	ve(s)	CAS No.: -
	Storage class (VCI):	12-13	
2.2	Persistence and degradability		
	not necessary		
23	Bioaccumulative notential		

- 12.3 Bioaccumulative potential not necessary
- 12.4 Mobility in soil not necessary
- 12.5 Results of PBT and vPvB assessment no data available
- 12.6 Other adverse effects

no additional data available

SECTION 13: Disposal considerations

Please observe local regulations for collection and disposal of hazardous waste and contact waste disposal company, where you will obtain information on laboratory waste disposal (waste code number 16 05 06).

13.1 Waste treatment methods

Normally it is possible to empty small amounts (diluted!) into drains.

SECTION 14: Transport information

14.1 - 14.4: No dangerous goods according the transport regulations

14.5 Environmental hazards

none, contains only small quantities of hazardous substances

14.6 Special precautions for user

not necessary

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code not applicable

SECTION 15: Regulatory information

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

German act governing protection from hazardous substances (Chemicals Act / Chemikaliengesetz- ChemG), revised on August 2013 German order governing protection from hazardous substances (Ordinance on Hazardous Substances / Gefahrstoffverordnung -GefStoffV), revised on November 2010, according to Directive 98/24/EC

TRGS 200, German engineering rules governing the classification and labelling of hazardous substances, preparations and products, updated October 2011

MN Leaflet/User manual, also see www.mn-net.com Look for your country-specific regulations.

15.2 Chemical safety assessment

not necessary for these small amounts ---



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Safety Data Sheet

according to Regulations 1907/2006/EC (REACh) and 2015/830/EU

REF: 74	0387.1000	Buffer LYS-EF (1000 mL)	Page: 7/7
Printing date: 12.05.2021 Date: Date		Date of issue: 11.12.2020	
SECT	ION 16: Other informa	ation	
16.1	List of H and P phrases		
16.1.1	List of relevant H phrases	ses skin irritation	

 H319 Causes serious eye irritation.
 16.1.2 List of relevant P phrases P280sh Wear protective gloves/eye protection.

16.2 Training advice

Multiple safety training of staffs about danger and protection by using hazards in working area.

16.3 Recommended restriction on use

Only for professional user.

An individual package of this product or test kit has a moderate hazardous potential.

16.4 Further information

MACHEREY-NAGEL GmbH & Co. KG provides the information contained herein in good faith being up-to-date of own realizations at revision time. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for a particular purpose.

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16.5 Sources of key data

Regulation 453/2010/EU REACH - REQUIREMENTS FOR THE COMPILATION OF SAFETY DATA SHEETS Regulation 487/2013/EU, 4th adaptation of CLP regulation to technical and scientific progress Regulation 669/2018/EU, 4th adaptation of CLP regulation to technical and scientific progress Regulation 1480/2018/EU, 4th adaptation of CLP regulation to technical and scientific progress TRGS 900, German engineering rules governing limits in air at work, updated 03/2019 SUVA .CH, Limits in air at work 2009, revised on 01.2009 KÜHN, BIRETT Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances)

Revisions/Updates

Reason for Revision: 2016-03 Adaptation of regulation 1221/2015/EU

