# MACHEREY-NAGEI



# Safety Data Sheet

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

REF: 91834	NANOCOLOR Detergents cationic	Page: 1/10
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# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 F	Product	identifier
-------	---------	------------

REF Product name 91834 NANOCOLOR Detergents cationic

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 200 mL Cationic Detergents R1

1 x 10 g Cationic Detergents R2

3 x 535 mL org. phase (R3)

1 x 2 g wadding

#### 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 Neumann-Neander-Str. 6-8, 52355 Dueren, 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. 99089 Erfurt tel. +49 361 730 730 DE: Gemeinsames Giftinformationszentrum (GGIZ)

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

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

# **SECTION 2: Hazard identification**

#### 2.0 Classification of the complete product



Signal word	DANGER
Hazard identification	Hazard classes/categories
H302	Acute Tox. 4 oral
H315	Skin Irrit. 2
H319	Eye Irrit. 2
H331	Acute Tox. 3 inh.
H336	STOT SE 3
H351	Carc. 2
H361	Repr. 2
H372	STOT RE 1

#### 2.1 Classification of the substance or mixture

### 200 mL Cationic Detergents R1

Do not need labelling as hazardous



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# **MACHEREY-NAGEL**



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	Signal word	-
	No hazard class	
	10 g Cationic Detergents R2	
	Signal word	Do not need labelling as hazardous -
	No hazard class	
	535 mL org. phase (R3)	
		GHS06 GHS07 GHS08
	Signal word	DANGER
	Hazard identification	Hazard classes/categories
	H302 H315 H319 H331 H336 H351 H361 H372	Acute Tox. 4 oral Skin Irrit. 2 Eye Irrit. 2 Acute Tox. 3 inh. STOT SE 3 Carc. 2 Repr. 2 STOT RE 1
	2 g wadding	
	Signal word	Do not need labelling as hazardous -
	No hazard class	
	Label elements According CLP directive inner packa - 1.5.1.2).	ages must be only labelled with GHS symbol(s) and product identificator(s) (EU 1272/2008 Annex
	Harmful chemicals/mixtures with sigr Annex I - 1.5.2).	nal word: WARNING must not be labelled with H and P phrases until 125 mL (EU 1272/2008

## 200 mL Cationic Detergents R1

Do not need labelling as hazardous Signal word: -

### 10 g Cationic Detergents R2

Do not need labelling as hazardous Signal word: -

### 535 mL org. phase (R3)



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H302, H315, H319, H331, H336, H351, H361, H372

Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. Toxic if inhaled. May cause drowsiness or dizziness. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure.

P201, P260sh, P264W, P280sh, P301+312, P311, P330, P405 Obtain special instructions before use. Do not breathe dust/vapours. Wash with water thoroughly after handling. Wear protective gloves/eye protection. IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Call a POISON CENTER/doctor. Rinse mouth. Store locked up.

### 2 g wadding

Do not need labelling as hazardous Signal word: -

#### 2.3 Other hazards

### Possible hazards from physicochemical properties

In the case of pH values are less than 5 or higher than 9 then it is irritant. ---

### Information pertaining to particular risks to human and possible symptoms

Cause severe after inhalation of vapours, impairments of health or can lead to death even when only ingested in small quantities. Cause after oral intake, impairments of health when ingested in small quantities. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. -

Information pertaining to particular risks to the environment

PBT:	not applicable
vPvB:	not applicable

Other hazards

## SECTION 3: Composition/information on ingredients

#### 3.1 Substances or 3.2 Mixtures

### 200 mL Cationic Detergents R1

Chemical: citrate	e buffer solution	CAS No.: -
Classification:	No criteria for classification or naming of chemical not required.	
TSCA Inventory:	all listed	
KE No.:	listed	
Concentration:	1 - <10 %	
acc. CLP (GHS):	The criteria for classification are not fulfilled.	

### 10 g Cationic Detergents R2

EC No .:

RTECS:

KE No.: Concentration:

acc. CLP (GHS):

Ja	lionic Delergents Rz			
	Chemical: bromo	ophenol blue (pH indicator	r)	CAS No.: 115-39-9
	Classification:	No criteria for classification of	r naming of chemical not required.	
	Formula:	C <sub>19</sub> H <sub>10</sub> Br <sub>4</sub> O <sub>5</sub> S	<b>.</b> .	
	Pseudonym:	Phenol, 4,4'-(1,1-dioxid	o-3H-2,1-benzoxathiol-3-ylidene)b	is[2,6-dibromo-
	TSCA Inventory:	listed		
	EC No.:	204-086-2		
	RTECS:	SJ74530000	MFCD:	00005875
	KE No.:	KE-02746		
	Concentration:	0.1 - <1 %		
	acc. CLP (GHS):	The criteria for classification a	are not fulfilled.	
	Chemical: sodiur	m chloride		CAS No.: 7647-14-5
	Classification:	No criteria for classification of	r naming of chemical not required.	
	Formula:	NaCl		
	Pseudonym:	salt		
	TSCA Inventory:	listed		
	REACH Reg. No.:	exempt, Annex V		

80 - <100 % The criteria for classification are not fulfilled.



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535 mL org. phas	se (R3)		
Chemica			CAS No.: 67-66-3
Classific	ation: H302, Acute Tox. 4 oral	, H315, Skin Irrit. 2, H319, Eye	e Irrit. 2, H331, Acute Tox. 3 inh., H336, STOT
SE 3, H3	51, Carc. 2, H361, Repr. 2, H372, ST	OT RE 1	
Formula	CHCl <sub>3</sub>		
Pseudon	ym: trichloromethane		
TSCA In	ventory: listed		
REACH	Reg. No.: 01-2119486657-20-xxx	<	
EC No.:	200-663-8	Indice No.:	602-006-00-4
RTECS:	FS9100000	MFCD:	00000826
KE No.:	KE-34076, Toxic 97-1-2	81	
Concent	ration: 95 - <100 %		
		LIGAE ON INT A LIGAD EN	LILO LIGOL A L T OLL LIGOD OTOT

H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H319, Eye Irrit. 2, H331, Acute Tox. 3 inh., H336, STOT acc. CLP (GHS): SE 3, H351, Carc. 2, H361, Repr. 2, H372, STOT RE 1

### 2 g wadding

#### 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

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

#### Description of first aid measures 4.1

Place insured person out of danger zone to fresh air immediately. Ensure quiet, warmth, and provide resuscitation if necessary. If necessary contact medical advice. Take to a doctor, in a raised position if there are breathing difficulties.

#### 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. Administer a Dexamethasone spray as soon as possible. Ensure quiet, warmth, and provide resuscitation if necessary. In the event of respiratory distress ensure that the patient inhales oxygen. Secure the breathing, heart and circulatory function. ---

#### After ORAL Intake 4.1.4

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

### Chronic Effects:

CMR Effects: Suspected of causing cancer. Suspected of damaging fertility or the unborn child. ---

#### 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. In the event of RESPIRATORY DISTREES ensure that the patient inhales oxygen. Inform patient respectively further measures and the possibility of long-term damages. ---

## **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.

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.

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#### 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, indicating

hazards and precautions on the basis of operating instructions. Restrictions on activity must be observed.

#### 6.2 Environmental precautions

not necessarv

#### 6.3 Methods and material for containment and cleaning up

Bind any escaping liquid with inert absorbent. And dispose in accordance to local regulations for the disposal of hazardous chemicals. Clean any contaminated equipment and floors with plenty of water.

Collect small amounts of leaked liquid and flush with water into drains. Not for organic solvents (see section 13).

#### 6.4 Reference to other sections

see information in section 5.4 ---

# **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Handling in accordance with the test instruction, that comes with the product. Use only in well-ventilated working areas.

3

#### 7.2 Conditions for safe storage, including any incompatibilities The original product package of MACHEREY-NAGEL allows a safe storage. Products containing also toxic substances should be kept

locked up. Storage class (VCI): 12

Water hazard class (DE):

#### 7.2.1 Requirements for stock rooms and containers

Keep original product packages tightly closed during handling and storage, and store in a well-ventilated place at max. 25 °C, away or preferably separate from substances with which a hazardous reaction could take place, so that they are not immediately accessible to outside parties. Use inbreakable container for transport of glass bottles.

#### 7.3 Specific end use(s)

Product for analytical use.

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

#### 8.1 **Control parameters**

Chemical: citrate buffer	solution	CAS No.: -
10 g Cationic Detergents	R2	
Chemical: bromopheno	l blue (pH indicator)	CAS No.: 115-39-9
Chemical: sodium chlor	ide	CAS No.: 7647-14-5
535 mL org. phase (R3)		
Chemical: chloroform DNEL: DNEL = Derived No-Effe	[derm] 0.94 mg/kg bw/day; [inh] 2.5 mg/m³ ct Level (for workers)	CAS No.: 67-66-3
PNEC(fresh water) : PNEC = Predicted No Ef	0.146 mg/L fected Concentration	
EU value: TRGS 900 (DE):	0.5 ppm / 2.5 mg/m³ 0,5 mL/m³ / 2,5 mg/m³ E/e respirable	
Short-term exposure factor skin resorptive (H), resp	: 2 (II), H, X, Y iratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) no	ot securely excluded / (Y) certainly excluded
SUVA(CH) MAK value: NIOSH: [TWA] Time-weighted av	0,5 ppm / 2,5 mg/m³ Ca ST 2 ppm / 9.78 <sub>60 min</sub> mg/m³ erage to a reference period of 8 hours, [STEL] Short-term exposu	re limit related to a 15-minute period
OSHA:	50 ppm / 240 mg/m <sup>3</sup>	

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	2 g wadding		
8.2	Exposure controls Good ventilation and extraction syn level of cleanliness must be mainta	stem in the room, floor resistant to chemicals with floor drainage and was ained at the workplace.	shing facilities. The highest
8.2.1	Respiratory protection Use for open access of these	substances for example a protection filter, class A/AX. No additional rec	ommendations.
8.2.2		l (permeation time >30 min - level 2), consist of PVC, natural latex, Neop from Ansell or KCL). Use for short times chemical resistant latex gloves	
8.2.3	Eye protection Yes, safety glasses according	EN 166 with integrated side shields or wrap-around protection.	
8.2.4	Skin protection Recommended to avoid conta	mination with these hazards.	
8.2.5	with the skin, eyes and clothin	ng snuff and storage of food in work areas and at outdoor workplaces is g. Rinse any clothing on which the substance has been spilled, and soa er when stopping work and before eating, and then apply protective skin	k it in water. Wash hands

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

<b>200 mL Cationic Detergents R1</b> Appearance: liquid pH: Specific gravity: Solubility in water:	Colour: colourless 1 1,0 g/cm³ 0-100 %	Odor: odorless
<b>10 g Cationic Detergents R2</b> Appearance: powder (solid) pH: Solubility in water:	Colour: yellow 5-7 0-20 %	Odor: odorless
<b>535 mL org. phase (R3)</b> Appearance: liquid Odor limit: Melting point: Boiling point: Vapour pressure (20°C): Vapour density(air=1) : Specific gravity: Solubility in water: Flashing temperature: Volatiles by volume:	Colour: colourless 50-200 mg/m³ -63.5 °C 61.7 °C 211 hPa 4,12 1,48 g/cm³ < 1 % 982 °C 1035 g/m³	Odor: like chloroform
<b>2 g wadding</b> Appearance: solid pH: Solubility in water:	Colour: colourless - -	Odor: odorless

#### 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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	FION 10: Stability	and reactivity					
10.1	Reactivity	-					
	no further data availabl	e.					
0.2	Chemical stability No known instability.	/					
10.3	<b>Possibility of haz</b> No further data availab						
10.4	Conditions to ave	<b>bid</b> e labeled storage tempe	erature				
10.5	Incompatible mat	erials					
0.6	Avoid contact with strong acids or alkalines. Hazardous decomposition products						
		all parts/all reagents are	e safety and separated stored. Decompositio	ons are not observed during the expiration			
SECI	ION 11: Toxicol	ogical informat	ion				
11.1		xicological effects		his product are not available			
	Following information is valid for pure substances. Quantitative data on the toxicity of this product are not available. 200 mL Cationic Detergents R1						
	Chemical: TSCA Inventory: Korea Exist.Chem	citrate buffer solutior all listed	ז	CAS No.: -			
	Chemical: TSCA Inventory: Korea Exist.Chem	bromophenol blue (p listed Inventory: KE-02746	oH indicator)	CAS No.: 115-39-9			
	Chemical: TSCA Inventory: Korea Exist.Chem LD50 <sub>orl rat</sub> : LD50 <sub>drm rbt</sub> :	sodium chloride listed Inventory: KE-31387 3000 mg/kg 10 g/kg		CAS No.: 7647-14-5			
	535 mL org. phas	e (R3)					
	Chemical: TSCA Inventory:	<i>chloroform</i> listed	California Proposition 65 List: liste	CAS No.: 67-66-3			
	ACGIH: Exposure Routes: Target Organs: Symptoms:	10 ppm inhalation, sl Liver, kidney	kin absorption, ingestion, skin and/or eye cor /s, heart, eyes, skin, central nervous system	ntact			
	exhaustion); anesthesia; enlarged liver; [potent Australia NICNAS: not listed Canada CEPA 1999: DSL yes Japan CSCL/PRTR: PCA Yes, PRTR: ≥1,0% class I, Japan PDSCL: Deleterious Substance						
	Japan ISHL: South Korea TCC/ Korea Exist.Chem LD50 <sub>orl rat</sub> : LC_Low <sub>ihl hmn</sub> :		oxic 97-1-281	neu)			
	LC_Low <sub>orl hum/rbt</sub> : LC50ihl rat : LD50drm rat :	140/500 mg/ 47.7 <sub>4h</sub> g/m³ >15800 mg/ł	′m³				
			on of vapours, impairments of health or can l r oral intake, impairments of health when ing				
				www.mn-ne			



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Carcinogenic Effects: Suspected of causing cancer. Suspected of damaging fertility or the unborn child. EU carcinogen: carc. 2, repr. 2 TRGS 905 (DE): K 1B, M 2, R<sub>D</sub> 2

### 2 g wadding

# **SECTION 12: Ecological information**

#### 12.1 Toxicity Following information is valid for pure substances. 200 mL Cationic Detergents R1 Chemical: citrate buffer solution CAS No .: -Water hazard class (DE): 0 Storage class (VCI): 12 10 g Cationic Detergents R2 Chemical: bromophenol blue (pH indicator) CAS No.: 115-39-9 Water hazard class (DE): 2 12-13 Storage class (VCI): Chemical: sodium chloride CAS No.: 7647-14-5 Water hazard class (DE): Storage class (VCI): 12-13 535 mL org. phase (R3) Chemical: chloroform CAS No.: 67-66-3 PNEC (fresh water) : PNEC = Predicted No Effected Concentration 0.146 mg/L LC50fish/96h : 18 mg/L EC50daphnia/48h 6.3<sub>21d NOEC</sub> mg/L WGK No.: 0054 Water hazard class (DE): 3 Dispersion coefficient(octanol-water): 1 97 Storage class (VCI): 12 2 g wadding 12.2 Persistence and degradability not necessary 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). Or collect in solvent waste (waste code number 07 07 04). Close container tightly.

#### 13.1 Waste treatment methods

Normally it is possible to empty small amounts (diluted!) into drains. Dispose of contents/container to regulated waste treatment.



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## **SECTION 14: Transport information**

14.1 UN number: 14.3 Class:	1888 6.1		UN proper shipping r Packing group: III	name: Chloroform
Road transport				
Classification code:	T1			
Limited Quantity:	5 L		Tunnel restriction coo	de: E
Excepted Quantity:	E 1			
Air transport				
PAX:	680		max. weight PAX:	60 L
CAO:	680		max. weight CAO:	220 L
Maritime transport			-	
EmS:	F-A, S	S-A	Storage category:	A

#### 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 / Gerantstoffverordnung -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 ---

## **SECTION 16: Other information**

#### 16.1 List of H and P phrases

16.1.1	List of relevant H phrases				
	H302	Harmful if swallowed.			
	H315	Causes skin irritation.			
	H319	Causes serious eye irritation.			
	H331	Toxic if inhaled.			
	H336	May cause drowsiness or dizziness.			
	H351	Suspected of causing cancer.			
	H361	Suspected of damaging fertility or the unborn child.			
	H372	Causes damage to organs through prolonged or repeated exposure.			
16.1.2	List of relevant	P phrases			
	P201	Obtain special instructions before use.			
	P260D	Do not breathe vapours.			
	P260sh	Do not breathe dust/vapours.			
	P261sh	Avoid breathing dust/vapours.			
	P264W	Wash with water thoroughly after handling.			
	P280sh	Wear protective gloves/eye protection.			
	P301+312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.			
	P304+340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.			
	P311	Call a POISON CENTER/doctor.			
	P314	Get medical advice/attention if you feel unwell.			
	P330	Rinse mouth.			
	P403+233	Store in a well-ventilated place. Keep container tightly closed.			
	P405	Store locked up.			



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

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### 16.2 Training advice

Multiple safety training of staffs about danger and protection by using hazards in working area. Additionally training and introduction of staffs for using these products.

### 16.3 Recommended restriction on use

Only for professional user.

Look about employee restrictions for young people (f. ex. 94/33/EC or DE § 22 JArbSchG)!

Look about employee restrictions for pregnant women and nursing women (f.ex. 92/85/EEC or for DE §§ 11-13 MuSchG 2017)! 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 SHEETSRegulation 487/2013/EU, 4<sup>th</sup> adaptation of CLP regulation to technical and scientific progressRegulation 669/2018/EU, 4<sup>th</sup> adaptation of CLP regulation to technical and scientific progressRegulation 1480/2018/EU, 4<sup>th</sup> adaptation of CLP regulation to technical and scientific progressRegulation 1480/2018/EU, 4<sup>th</sup> adaptation of CLP regulation to technical and scientific progressRGS 900, German engineering rules governing limits in air at work, updated 03/2019SUVA.CH, Limits in air at work 2009, revised on 01.2009Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at workTRGS 905, German engineering rules governing carcinogens and mutagens, updated 03/18KÜHN, BIRETTMerkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances)

### **Revisions/Updates**

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

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