MACHEREY-NAGEL



Safety Data Sheet

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

REF: 91320	QUANTOFIX Phosphate	Page: 1/10
Printing date: 17.03.2017	Date of issue: 28.02.2017	

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

1.1	Product identifier	
	REF Product name	91320 QUANTOFIX Phosphate
	REACH Registration number(s) A registration number for the the substance or its use is exe	substance(s) does not exist because the annual tonnage does not require registration or
		1 x 100 test strips 1 x 30 mL PO4 ³⁻ -2 1 x 30 mL PO4 ³⁻ -1
1.2	Relevant identified uses of	the substance or mixture and uses advised against
	The exposure scenario i	ssification according REACh, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0 is integrated into sections 1-16. tro-diagnostic use (IVD) or Accessory for medical use
1.3	Details of the supplier of th	ne safety data sheet
	Manufactured by: MACHEREY-NAGEL GmbH & Neumann-Neander-Str. 6-8, 52 Tel.: +49 2421 969 0	
1.4	Emergency telephone num	ber
	Outside Germany (DE): Call yo DE: Gemeinsames Giftinformat	ur regional Poisons Information Service or call local Life Saving Service. ionszentrum (GGIZ) 99089 Erfurt tel. +49 361 730 730
SEC	TION 2: Hazard identificat	tion
2.0	Classification of the compl	ete product
	Directive 1999/45/EC Symbols	
	R	C R 34
	CLP Directive 1272/2008/EC GHS pictograms	
		GHS05
	Signal word	DANGER

Hazard identification

Hazard classes/categories

H314 Skin Corrosion 1B. Serious Damage to Eyes 1

2.1 Classification of the substance or mixture

100 test strips

Directive 1999/45/EC

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Symbols	do not need labelling as hazardous	
CLP Directive 1272/2008/EC		
GHS pictograms Signal word	do not need labelling as hazardous -	
No hazard class		
30 mL PO4 ³⁻ -2		
Directive 1999/45/EC		
Symbols	do not need labelling as hazardous	
CLP Directive 1272/2008/EC		
GHS pictograms Signal word	do not need labelling as hazardous -	
No hazard class		
30 mL PO4 ³⁻ -1		
Directive 1999/45/EC		
Symbols	R 34	
- ,	<u> 1</u>	
	C	
CLP Directive 1272/2008/EC		
GHS pictograms		
	GHS05	
Signal word	DANGER	
Hazard identification	Hazard classes/categories	
H314	Skin Corrosion 1B. Serious Damage to Eyes 1	

2.2 Label elements

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

100 test strips

```
Directive 1999/45/EC
Symbols:
-
-
S 22
Do not breathe dust.
```

```
CLP Directive 1272/2008/EC
GHS pictograms:
do not need labelling as hazardous
```

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Safety Data Sheet

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Signal word:		

Signal word: -

30 mL PO₄3- -2

Directive 1999/45/EC Symbols:

CLP Directive 1272/2008/EC GHS pictograms: do not need labelling as hazardous Signal word: -

30 mL PO43- -1

Directive 1999/45/EC Symbols:



S 23-26-45

Do not breathe vapour. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

CLP Directive 1272/2008/EC

GHS pictograms:



Signal word: DANGER

H314

Causes severe skin burns and eye damage.

P260sh, P280sh, P303+361+353, P305+351+338, P310 Do not breathe dust/vapours. Wear protective gloves/eye protection. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor/...

2.3 Other hazards

Possible Hazards from physicochemical Properties

Generally in the case of pH values are less than 2 or higher than 11.5 then it is corrosive.

Information pertaining to particular Risks to Human and possible Symptoms

Causes varying degrees of acid burns on the skin, to the eyes and to the mucous membranes and wounds which do not heal quickly depending on the concentration, temperature and the exposure time. Vapours especially which steam from hot liquids and mist can have a severe irritant effect upon the eyes and the respiratory organs.

Information pertaining to particular Risks to the Environment

- Avoid contact of substance/mixture to environment. PBT: not applicable
- vPvB: not applicable

Other Hazards



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SECTION 3: Composition/Information on Ingredients

3.1 Substances or 3.2 Mixtures

100 test	Chemical: cellulo Concentration: Formula: REACH Reg. No.: EC No.: RTECS: TSCA Inventory:	1 - <10 % (C ₆ H ₁₀ O ₅) _n exempt, Annex IV 232-674-9 FJ5691460 listed		CAS No.: 9004-34-6
	KE No.: acc. 1999/45/EC:	KE-05339 -	acc. CLP (GHS):	not necessary
	Chemical: <i>chemic</i> Concentration: KE No.:	cals/mixture < 1%, no declaration ne 0,1 - <1 % listed	cessary	CAS No.: -
	acc. 1999/45/EC:	-	acc. CLP (GHS):	not necessary
	Chemical: PVC for Concentration:	oil (CAS 9002-86-2) 95 - <100 %		CAS No.: -
	acc. 1999/45/EC:	-	acc. CLP (GHS):	not necessary
30 mL F		n acetate 10 - <32 % C ₂ H ₃ NaO ₂ 01-2119485123-42-0007 204-823-8 AJ4580000 listed KE-00061		CAS No.: 127-09-3
	acc. 1999/45/EC:	-	acc. CLP (GHS):	not necessary
30 mL F	PO 4 ³⁻ -1 Chemical: <i>nitric</i> a Concentration: Formula:	acid 5 - <20 % HNO3 •H2 O		CAS No.: 7697-37-2
	REACH Řeg. No.: EC No.: RTECS: TSCA Inventory:	231-714-2 QU5900000/QU5775000 listed	Indice No.:	007-004-00-1
	KE No.: acc. 1999/45/EC:	KE-25911, >10% Toxic 97-1-246, / R 34	Acc. Precaution Chem. acc. CLP (GHS):	H314

3.3 Remarks

List of R, H and P phrases: see section 16.

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. Remove contaminated clothing. Show product package, packing insert and this material safety data sheet to the doctor.

4.1.1 After SKIN Contact

Remove dust with wetted tissue. 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.



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4.1.2	min. 10 minutes with eye was	eyes or: After contact with the eyes rinse thoroughly under running w ning bottle, eye douche or running water (protect intact eye). Before (pening the eyelid convulsion is painful. Further treatment to be carrie	(if possible) apply eye drops
4.1.3		rs our fresh air should be inhaled. Keep airways free. If vomiting and if ways free. After inhalation of dust fresh air should be inhaled.	insensible place patient in
4.1.4		vith activated charcoal supplement should be drunk after it has been not make any efforts to neutralise it. Contact medical advice for poss	
4.2	Most important symptom Avoid inhalation of dust	and effects, both acute and delayed	
4.3	CORROSIVE DAMAGE: After SKI matters worse. Apply glucocortico	te medical attention and special treatment needed N CONTACT rinse with water for a long time. Efforts to neutralise the teroides following inflammatory reactions. After EYE CONTACT rins Ision measures. Name the corrosive chemical. Further treatment must	e immediately with plenty of

specialist. After INTAKE administer aluminium oxide drug suspensions. Administer a prophylaxis to counter pulmonary oedema following the INGESTION of corrosive aerosols. In the event of RESPIRATORY DISTREES ensure that the patient inhales oxygen.

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.

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

Wear suitable protective gloves (see 8.2.2). Wear eye protection, respectively face 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 necessary

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.

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.

7.2 Conditions for safe storage, including any incompatibilities The original product package of MACHEREY-NAGEL allows a safe storage.

REY-NAGE $\langle MN \rangle$ EN ISO 9001: 2008 CERTIFIED

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	Storage class (VCI): Water hazard class (DE):	8B 1			
7.2.1		Rooms and Containers kages tightly closed during handling and storage. Us	e inbreakable container for transport of glass bottles.		
7.3	Specific end use(s) Product for analytical use. If CE labelling: Product for in-v	ritro-diagnostic use (IVD) or Accessory for medical us	se		
SEC	FION 8: Exposure cor	trols/personal protection			
3.1	Control parameters				
	100 test strips Chemical: <i>cellulose</i> TRGS 900 (DE): SUVA(CH) MAK value:	Staub 1.25 A / 4 E mg/m³ E/e respirable 3 a ppm	CAS No.: 9004-34-6		
	NIOSH: OSHA:	TWA 10 (total) / 5 (resp) mg/m³ TWA 15 (total) / 5 (resp) mg/m³			
	Chemical: chemicals/	nixture < 1%, no declaration necessary	CAS No.: -		
	Chemical: PVC foil (C	AS 9002-86-2)	CAS No.: -		
	30 mL PO 4 ³⁻ - 2 Chemical: sodium ace	tate	CAS No.: 127-09-3		
	30 mL PO ₄ ³⁻ -1 Chemical: <i>nitric acid</i> DNEL: DNEL = Derived No-Effect Leve EU value: TRGS 900 (DE):	1 ppm / 2.6 mg/m³ 1 ppm / 2,6 mg/m³	CAS No.: 7697-37-2		
	Short-term exposure factor skin resorptive (H), respiratory SUVA(CH) MAK value: NIOSH: NIOSH STEL: OSHA:	E/e respirable pr: - sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not secur 2 ppm / 5 mg/m ³ TWA 2 ppm / 5 mg/m ³ 4 ppm / 10 mg/m ³ List of highly hazardous chemicals, toxics and response			
8.2	mg/m³ Exposure controls				
	The highest level of cleanlines	s must be maintained at the workplace.			
3.2.1	Respiratory Protection No additional recommend	lations.			
3.2.2	Hand Protection Yes, gloves according EN 374 (permeation time >30 min - level 2), consist of PVC, natural latex, Neopren, or Nitril (f.ex. from Ans or KCL). Use for short times chemical resistant latex gloves with code EN 374-3 level 1.				
3.2.3	Eye Protection Yes, safety glasses accor	ding EN 166 with integrated side shields or wrap-aro	ound protection or face protection.		
3.2.4	Skin Protection	lothing damage, and to avoid contamination with the			
8.2.5	Personal Hygiene Eating, drinking, smoking with the skin, eyes and cl	, taking snuff and storage of food in work areas and a othing. Rinse any clothing on which the substance ha water when stopping work and before eating, and th	at outdoor workplaces is prohibited. Avoid contact as been spilled, and soak it in water. Wash hands		



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SEC	ION 9: Physical and c	hemical properties	
9.1	Information on basic ph	ysical and chemical properties	3
	100 test strips Appearance: solid	Color: colored	Odor: odorless
	30 mL PO 4 ³⁻ -2 Appearance: liquid pH: Solubility in water:	Color: colourless 4-5 0-100 %	Odor: acetic
	30 mL PO 4 ³⁻ -1 Appearance: liquid pH: Specific gravity: Solubility in water:	Color: colourless 0-1 1,11 g/mL 0-100 %	Odor: nitric
9.2	Other information Relevant Properties of Substa	nce Group	
SEC	ION 10: Stability and I	reactivity	
10.1	Reactivity No data available		
10.2	Chemical stability No known instability.		
10.3	Possibility of hazardous No data available.	reactions	
10.4	Conditions to avoid Not necessary		
10.5	Incompatible materials Avoid contact with concentrated	acids and oxidizing agents. Avoid conta	ct with strong acids or alkalines.
10.6	Hazardous decompositi In the original package all parts/ period under recommended con	all reagents are safety and separated sto	ored. Decompositions are not observed during the expiration
SECT	ION 11: Toxicological	information	
11.1	Information on toxicolog	gical effects	

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

100 test strips

Chemical:	cellulose		CAS No.: 9004-34-6
TSCA Inventory:	listed	California Proposition 65 List	: not listed
Exposure Routes:	inhalation, skin a	nd/or eye contact	
Target Organs:	Eyes, skin, respir	ratory system	
Symptoms:	irritation eyes, sk	in, mucous membrane	
Australia NICNAS:	not listed	Canada CEPA 1999:	DSL yes
Japan CSCL/PRTR:	not listed		
Japan PDSCL:	not listed	Japan ISHL:	not listed
South Korea TCCA:	not listed		
Korea Exist.Chem.Inv	entory: KE-05339		
LD50 _{orl rat} :	>5000 mg/kg		
LC50 _{ihl rat} :	>5800 _{4h} mg/m³		
LD50 _{drm rbt} :	>2000 mg/kg		



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7.03.2017 Chemical:		Date of issue	e: 28.02.2017	
hemical:				
Corea Exist.Chem.Inv		als/mixture < 1%, no declara: listed	tion necessary	CAS No.: -
Chemical:	PVC foi	l (CAS 9002-86-2)		CAS No.: -
nL PO4 ³⁻ -2				
Chemical: SCA Inventory:	ventory:	listed KE-00061 3530 mg/kg		CAS No.: 127-09-3
⊔L PO ₄ ³⁻ -1				
Chemical: SCA Inventory: Exposure Routes: arget Organs: Symptoms:		listed Califo inhalation, ingestion, skin ar Eyes, skin, respiratory syste	nd/or eye contact em, teeth	
apan CSCL/PRTR:			Canada CEPA 1999:	DSL Yes
apan PDSCL: outh Korea TCCA: orea Exist.Chem.Inv C_Low _{orl hmn} : C50 _{ihl rat} :	ventory:	Accident Precaution Chemic KE-25911, >10% Toxic 97-1 430 mg/kg		listed ≥1,0%/≥1,0%, Article 57-2 (SDS required) Chem.
RGS 905 (DE):		R _F D		
	L PO 4 ³⁻ -2 themical: SCA Inventory: torea Exist.Chem.Int D50 _{orf rat} : D50 _{drm rbt} : L PO 4 ³⁻ -1 themical: SCA Inventory: xposure Routes: arget Organs: ymptoms: rosion ustralia NICNAS: apan CSCL/PRTR: apan PDSCL: outh Korea TCCA: orea Exist.Chem.Int C_Low _{orl hmn} : C50 _{ihl rat} :	AL PO4 ³⁻ -2 themical: sodium SCA Inventory: orea Exist.Chem.Inventory: D50 _{orl rat} : D50 _{drm rbt} : AL PO4 ³⁻ -1 themical: nitric ac SCA Inventory: xposure Routes: arget Organs: ymptoms: rosion ustralia NICNAS: apan CSCL/PRTR: apan PDSCL: outh Korea TCCA: orea Exist.Chem.Inventory: C_Low _{orl hmn} : C50 _{ihl rat} :	L PO_4^{3-} -2themical:sodium acetateSCA Inventory:listedorea Exist.Chem.Inventory:KE-00061 $D50_{orl rat}$:3530 mg/kg $D50_{drm rbt}$:> 10 g/kg AL PO_4^{3-} -1themical:chemical:nitric acidSCA Inventory:listedcalifocalifoxposure Routes:inhalation, ingestion, skin anarget Organs:Eyes, skin, respiratory systeymptoms:irritation eyes, skin, mucousrosionustralia NICNAS:ustralia NICNAS:not listedapan CSCL/PRTR:not listedapan PDSCL:Deleterious Substanceouth Korea TCCA:Accident Precaution Chemicorea Exist.Chem.Inventory:KE-25911, >10% Toxic 97-1C_Lowort hmn :430 mg/kgC50 _{ihl rat} :NO ₂ 67 _{4h} ppm	AL PO4 ³⁻ -2 themical: sodium acetate SCA Inventory: listed orea Exist.Chem.Inventory: KE-00061 D50 _{orl rat} : 3530 mg/kg D50 _{drm rbt} : > 10 g/kg AL PO4 ³⁻ -1

Toxicity

12.1 Fo

I ONICILY			
Following information is vali	id for pure subs	stances.	
100 test strips Chemical: Water hazard class (Storage class (VCI):		nwg 11	CAS No.: 9004-34-6
Chemical: Water hazard class (Storage class (VCI):	DE):	ure < 1%, no declaration necessary 1 12-13	CAS No.: -
Chemical:	PVC foil (CAS	9002-86-2)	CAS No.: -
30 mL PO4 ³⁻ -2			
Chemical: Water hazard class (Storage class (VCI):	,	1 12-13	CAS No.: 127-09-3
30 mL PO 4 ³⁻ -1 Chemical: Avoid contact of subs LC50 _{daphnia} magna/48t LC50 _{fish/96h} : Water hazard class (Storage class (VCI):	DE):	o environment. 180 mg/L 72 mg/L 1 WGK No.: 0414 8 B	CAS No.: 7697-37-2



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	essment	
	Ate: 17.03.2017 Persistence and degradability not necessary Bioaccumulative potential not necessary Mobility in soil not necessary	ate: 17.03.2017 Date of issue: 28.02.2017 Persistence and degradability not necessary Bioaccumulative potential not necessary Mobility in soil not necessary Nobility in soil not necessary Results of PBT and vPvB assessment no data available Other adverse effects

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

Empty containers of corrosive reagents prior to disposal, rinse with water.

SECTION 14: Transport information

14.1. UN number:	3316 14.2.	UN proper shipping name: Chemical Kit
14.3. Class:	9 14.4.	Packing group: II
Road transport		
Classification code:	M11	Tunnel restriction code: E
Limited Quantity:	acc. ADR 3.3	3.1/251: see LQ in Alternative transport labelling
Air transport		
PAX:	960	max. weight PAX: 10 KG
CAO:	960	max. weight CAO: 10 KG
Maritime transport		-
EmS:	F-A, S-P	Storage category: A

Alternative transport labelling follows:

UN No.: (see below) class 8 II, Excepted Quantities (≤30 mL/∑≤500 mL) = ADR/ IATA E2

or 3264 14.2 UN proper shipping name: Corrosive liquid, acidic, inorganic, n.o.s. (nitric acid solution) 14.1 UN number: 14.3 Class: 8 14.4 Packing group: 11 Road transport Classification code: C1 Limited Quantity: Tunnel restriction code: Е 1 L Excepted Quantity: E 2 Air transport PAX: 851 max. weight PAX: 11 CAO: 855 max. weight CAO: 30 L Maritime transport EmS: F-A, S-B Storage category: B

14.5 Environmental hazards

not necessary

- 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



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

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		Date of issue: 28.02.2017	
15.2	Chemical safe	y assessment hese small amounts	
SECT	ION 16: Other	Information	
16.1	List of R, H and P phrases		
16.1.1	List of relevant R phrases R34 Causes burns.		
16.1.2	List of relevar H314	t H phrases Causes severe skin burns and eye damage.	
16.1.3	List of relevar	t P phrases	

16.1.3

List of relevant P phrases	
P260sh	Do not breathe dust/vapours.
P280sh	Wear protective gloves/eye protection.
P303+361+353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to
	do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor/
	P260sh P280sh P303+361+353 P305+351+338

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 DE §§ 4 und 5 MuSchRiV)! 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 TRGS 900, German engineering rules governing limits in air at work, updated September 2016 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

You find our current versions of MSDS in Internet: http://www.mn-net.com/MSDS

www.mn-net.com



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