

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

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Printing date: 01.10.2019 Date of issue: 17.04.2019

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

#### 1.1 **Product identifier**

REF 91848

Product name NANOCOLOR Silica

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 100 mL Silica R1 1 x 100 mL Silica R2 1 x 100 mL Silica R3

### 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. 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

#### 2.0 Classification of the complete product





**GHS05** GHS07

Signal word **DANGER** 

Hazard identification Hazard classes/categories

EUH031 031 not defined H315 Skin Irrit. 2 H318 Eye Dam. 1 H319 Eye Irrit. 2

#### 2.1 Classification of the substance or mixture

100 mL Silica R1



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> WARNING Signal word

Hazard identification Hazard classes/categories H315 Skin Irrit. 2 H319 Eye Irrit. 2

100 mL Silica R2

Do not need labelling as hazardous

Signal word

No hazard class

100 mL Silica R3



Signal word **DANGER** 

Hazard identification Hazard classes/categories

EUH031 031 not defined H318 Eye Dam. 1

#### 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).

### 100 mL Silica R1



GHS07

Signal word: WARNING

### 100 mL Silica R2

Do not need labelling as hazardous Signal word: -

### 100 mL Silica R3



GHS05

Signal word: DANGER

H318

Causes serious eye damage.

P280sh, P305+351+338, P310

Wear protective gloves/eye protection. 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.

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#### 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. 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

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

PBT: not applicable vPvB: not applicable

Other hazards

Contains an odor intensive reagent. ---

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

#### 3.1 Substances or 3.2 Mixtures

### 100 mL Silica R1

ammonium heptamolybdate Chemical: CAS No.: 12054-85-2

Classification: No criteria for classification or naming of chemical not required.

Formula: H<sub>24</sub> Mo<sub>7</sub> N<sub>6</sub> O<sub>24</sub>

Pseudonym: hexaammonium heptamolybdate TSCA Inventory: listed (CAS 11098-84-3) REACH Reg. No.: 01-2119498057-28-xxxx

EC No.: 234-722-4

QA5076000 / QA4900000 MFCD: 00167059 RTECS:

KE No.: not listed

Concentration: Correlation factor: x 0.58 (= %Mo) The classification refers to weight percent of the metal (according to CLP Regulation 2008/1272/EC Annex VI, 1.1.3.2 Note 1)

acc. CLP (GHS): The criteria for classification are not fulfilled.

Chemical: sulfuric acid CAS No.: 7664-93-9

Classification: H314, Skin Corr. 1B Formula: H<sub>2</sub> SO<sub>4</sub> (•H<sub>2</sub> O)

TSCA Inventory: listed

REACH Reg. No.: 01-2119458838-20-xxxx

EC No.: 231-639-5 016-020-00-8 Indice No:

RTECS: WS5600000

KE No.: KE-32570, >10% Toxic 97-1-405, Acc. Precaution Chem.

Concentration: 5 - <15 %

acc. CLP (GHS): H315, Skin Irrit. 2, H319, Eye Irrit. 2

### 100 mL Silica R2

CAS No.: 144-62-7 Chemical: oxalic acid

H302, Acute Tox. 4 oral, H312, Acute Tox. 4 derm., H318, Eye Dam. 1 Classification:

C<sub>2</sub> H<sub>2</sub> O<sub>4</sub>; HOOC-COOH Formula:

Pseudonym: ethanedioic acid

TSCA Inventory: listed

01-2119534576-33-xxxx REACH Reg. No.:

EC No.: 205-634-3 Indice No : 607-006-00-8

RTECS: RO2450000 KF No : KF-13152 Concentration: 1 - <5 %

acc. CLP (GHS): The criteria for classification are not fulfilled

100 mL Silica R3

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> Chemical: sodium disulfite CAS No.: 7681-57-4

Classification: H302, Acute Tox. 4 oral, H318, Eye Dam. 1, EUH031, 031 not defined

Formula: Na<sub>2</sub> O<sub>5</sub> S<sub>2</sub>

Pseudonym: sodium metabisulphite, sodium pyrosulfite

TSCA Inventory: listed

REACH Reg. No.: 01-2119531326-45-xxxx

FC No : 231-673-0 Indice No: 016-063-00-2

UX8225000 RTECS: KE No.: KE-12701 Concentration: 10 - <25 %

acc. CLP (GHS): H318, Eye Dam. 1, EUH031, 031 not defined

#### 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**

### 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 contaminated clothing. Rinse the affected skin or mucous membrane thoroughly under running water. (If possible) use soap.

### 4.1.2

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 should be drunk after it has been ingested. ---

#### 4.2 Most important symptoms and effects, both acute and delayed

### 4.3 Indication of any immediate medical attention and special treatment needed

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.

#### Additional information 5.4

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

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

Do not breathe vapours. 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.

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### 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

---

## **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.

Storage class (VCI): 8B Water hazard class (DE): 1

### 7.2.1 Requirements for stock rooms and containers

Keep original product packages tightly closed during handling and storage. 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

100 mL Silica R1

Chemical: ammonium heptamolybdate CAS No.: 12054-85-2

TRGS 900 (DE): [Mo] 5 E mg/m³ E/e respirable
SUVA(CH) MAK value: [Mo] 5 e mg/m³

Chemical: sulfuric acid CAS No.: 7664-93-9

DNEL: [inh] 50 µg/m³
DNEL = Derived No-Effect Level (for workers)

 PNEC (fresh water):
 2.5 µg/L

 PNEC = Predicted No Effected Concentration

 EU value:
 0.1 e mg/m³

 TRGS 900 (DE):
 0.1 E mg/m³

 E/e respirable

Short-term exposure factor: 1 (I), Y

skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded

SUVA(CH) MAK value: 0,1 e mg/m³ NIOSH: 0,1 e mg/m³ NTP Report on Carcinogens (RoC) List Yes (Known to be a human carcinogen); [TWA] 1 mg/m³

[TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period OSHA: [TWA] 1 mg/m<sup>3</sup>

100 mL Silica R2

Chemical: oxalic acid CAS No.: 144-62-7

DNEL: 4.03<sub>inh</sub> mg/kg
DNEL = Derived No-Effect Level (for workers)

PNEC(fresh water): 0,1622 mg/L
PNEC = Predicted No Effected Concentration

EU value: 1 e mg/m³
TRGS 900 (DE): 1 E mg/m³

Short-term exposure factor: 1 (I), H

skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded

SUVA(CH) MAK value: 1 e mg/m³

NIOSH: TWA 1 / ST 2 mg/m<sup>3</sup>

[TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period

OSHA: TWA 1 mg/m<sup>3</sup>

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100 mL Silica R3

sodium disulfite CAS No : 7681-57-4 Chemical:

[inh] 225 mg/m<sup>3</sup> DNEL: DNEL = Derived No-Effect Level (for workers)

TRGS 900 (DE):

E/e respirable SUVA(CH) MAK value: 5 e mg/m<sup>3</sup> NIOSH: [TWA] 5 mg/m<sup>3</sup>

[TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period

OSHA:

8.2 **Exposure controls** 

> Good ventilation and extraction system in the room, floor resistant to chemicals with floor drainage and washing facilities. The highest level of cleanliness must be maintained at the workplace.

8.2.1 Respiratory protection

No additional recommendations.

8.2.2 Hand protection

Yes, gloves according EN 374 (permeation time >30 min - level 2), consist of PVC, natural latex, Neopren, or Nitril (f.ex. from Ansell or KCL). Use for short times chemical resistant latex gloves with code EN 374-3 level 1.

8.2.3

Yes, safety glasses according EN 166 with integrated side shields or wrap-around protection or face protection.

8.2.4 Skin protection

Recommended to avoid contamination with these hazards.

8.2.5

Eating, drinking, smoking, taking snuff and storage of food in work areas and at outdoor workplaces is prohibited. Avoid contact with the skin, eyes and clothing. Rinse any clothing on which the substance has been spilled, and soak it in water. Wash hands thoroughly with soap and water when stopping work and before eating, and then apply protective skin cream.

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

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

100 mL Silica R1

Appearance: liquid Odor: odorless Colour colourless 0-1

pH:

Specific gravity: 1,05 g/cm3 Solubility in water: 0-50 %

100 mL Silica R2

Appearance: liquid Colour: colourless Odor: odorless

3-5 pH:

Specific gravity: 1,02 g/cm<sup>3</sup>

100 mL Silica R3

Colour: colourless Odor: penetrative Appearance: liquid

5-7 pH:

Solubility in water: 0-30 %

### 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** 

SECTION 10: Stability and reactivity

### 10.1 Reactivity

no further data available.

#### 10.2 Chemical stability

No known instability.

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#### 10.3 Possibility of hazardous reactions

No further data available.

#### 10.4 Conditions to avoid

Not necessary. Observe labeled storage temperature. ---

### 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.

### 100 mL Silica R1

Chemical: ammonium heptamolybdate CAS No.: 12054-85-2

TSCA Inventory: listed (CAS 11098-84-3) listed ≥1,0%/≥0,1%, Japan ISHL:

Korea Exist.Chem.Inventory: not listed

Chemical: sulfuric acid CAS No.: 7664-93-9

TSCA Inventory: listed California Proposition 65 List: not listed

ACGIH: 1 ppm

**Exposure Routes:** inhalation, ingestion, skin and/or eye contact Target Organs: Eyes, skin, respiratory system, teeth

Symptoms: irritation eyes, skin, nose, throat; pulmonary edema, bronchitis; emphysema; conjunctivitis; stomatis;

dental erosion; eye, skin burns; dermatitis

Australia NICNAS: not listed Canada CEPA 1999: DSL Yes

Japan CSCL/PRTR: not listed, Japan PDSCL: Deleterious Substance Japan ISHL: listed ≥1,0%/≥1,0%, Article 57-2 (SDS required)

South Korea TCCA: Accident Precaution Chemical Yes Korea Exist.Chem.Inventory: KE-32570, >10% Toxic 97-1-405, Acc. Precaution Chem.

2140 mg/kg LD50<sub>orl rat</sub>:

[8h] 600/ [4h] 850 mg/m<sup>3</sup> LC50<sub>ihl rat</sub>:

TRGS 905 (DE): Kat 4

### 100 mL Silica R2

Chemical: oxalic acid CAS No.: 144-62-7

TSCA Inventory: California Proposition 65 List: not listed listed

inhalation, ingestion, skin and/or eve contact **Exposure Routes:** Target Organs: Eyes, skin, respiratory system, kidneys

Symptoms: irritation eyes, skin, mucous membrane; eye burns; localized pain, cyanosis; shock, collapse,

convulsions; kidney damage

Australia NICNAS: Canada CEPA 1999: DSL Yes

not listed, Japan PDSCL: Deleterious Substance Japan CSCL/PRTR: Japan ISHL: listed ≥1,0%/≥0,1%, Article 57-2 (SDS required)

South Korea TCCA: not listed Korea Exist.Chem.Inventory: KE-13152 LD50<sub>orl rat</sub>: 7.5 g/kg LD50<sub>drm rbt</sub>: 20 g/kg

### 100 mL Silica R3

Chemical: sodium disulfite CAS No.: 7681-57-4

TSCA Inventory: California Proposition 65 List: not listed

**Exposure Routes:** inhalation, ingestion, skin and/or eye contact

Target Organs: Eyes, skin, respiratory system Symptoms:

irritation eyes, skin, mucous membrane

Australia NICNAS: Canada CEPA 1999: DSL yes not listed

not listed, Japan PDSCL: not listed Japan CSCL/PRTR:

Japan ISHL: listed ≥1,0%/≥1,0%, Article 57-2 (SDS required)

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> South Korea TCCA: not listed Korea Exist.Chem.Inventory: KE-12701 LD50<sub>orl rat</sub>: 1540 mg/kg 2000 mg/kg LD50<sub>drm rat</sub>:

## **SECTION 12: Ecological information**

#### 12.1 **Toxicity**

Following information is valid for pure substances.

100 mL Silica R1

Chemical: ammonium heptamolybdate CAS No.: 12054-85-2

Water hazard class (DE): WGK No.: 0637

Storage class (VCI): 12-13

Chemical: sulfuric acid

CAS No.: 7664-93-9 2.5 µg/L

PNEC (fresh water):
PNEC = Predicted No Effected Concentration

LC50<sub>fish/96h</sub>: [NOEC, 65d] 25 µg/L

EC50<sub>daphnia/48h</sub>: 100 mg/L EC10<sub>pseudomonas putita/16h</sub>: [72h] 100 mg/L

Water hazard class (DE): WGK No.: 0182

Storage class (VCI):

100 mL Silica R2

Chemical: oxalic acid CAS No.: 144-62-7

PNEC (fresh water):
PNEC = Predicted No Effected Concentration 0,1622 mg/L

LC50leuciscus idus/96h: 160 mg/L EC50<sub>daphnia/48h</sub>: 61<sub>24h</sub> / 162.2 mg/L EC10<sub>pseudomonas putita/16h</sub>: 1550<sub>16d</sub> mg/L

Water hazard class (DE): WĞK No.: 0166 1

Dispersion coefficient<sub>(octanol-water)</sub>: -1 7 Storage class (VCI): 12

100 mL Silica R3

Chemical: sodium disulfite CAS No.: 7681-57-4

LC50<sub>fish/96h</sub>: 150-220 mg/L  $EC50_{daphnia/48h}$ : 89 mg/L IC50<sub>scenedesmus</sub> quadricauda/72h 48 mg/L

WGK No.: 1169 Water hazard class (DE):

Storage class (VCI): 8 B

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

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

## **SECTION 14: Transport information**

14.2. UN proper shipping name: Chemical Kit 14.1. UN number: 3316

14.3. Class: 14.4. Packing group:

Road transport

Tunnel restriction code: Classification code: M11

Limited Quantity: acc. ADR 3.3.1/251: see LQ in Alternative declaration for transportation

Air transport

960 PAX. max. weight PAX: 10 KG CAO: 960 max. weight CAO: 10 KG

Maritime transport

F-A S-P Storage category: Α

### Or use Alternative declaration for transportation:

14.1 UN number: 3264

14.2 UN proper shipping name: Corrosive liquid, acidic, inorganic, n.o.s. (sulfuric acid, sodium disulfite solution)

F

14.3 Class: 14.4 Packing group: II

Road transport

Classification code

C<sub>1</sub> Limited Quantity:

Tunnel restriction code: 1 L

**Excepted Quantity:** F 2

Air transport

PAX: 851 max. weight PAX: 1 L CAO 855 max. weight CAO: 30 I Maritime transport

EmS:

F-A, S-B Storage category: В

#### 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.

### **Chemical safety assessment** 15.2

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

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H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
EUH031 Contact with acids liberates toxic gas.

16.1.2 List of relevant P phrases

P260D Do not breathe vapours.

P280sh Wear protective gloves/eye protection.

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.

## 16.2 Training advice

16.4

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.

# Further information

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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, 4<sup>th</sup> adaptation of CLP regulation to technical and scientific progress Regulation 669/2018/EU, 4<sup>th</sup> adaptation of CLP regulation to technical and scientific progress TRGS 900, German engineering rules governing limits in air at work, updated 03/2018

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

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