

# Safety Data Sheet

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

REF: 814401

Spray reagent f. Caffeine, 100 mL

Page: 1/9

Printing date: 02.06.2020

Date of issue: 05.09.2018

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

### 1.1 Product identifier

REF 814401  
Product name Spray reagent f. Caffeine, 100 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 100 mL Caffeine spray reagent

### 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](mailto:sds@mn-net.com) ([msds@mn-net.com](mailto: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

100 mL Caffeine spray reagent



GHS02

GHS05

GHS07

Signal word

DANGER

#### Hazard identification

#### Hazard classes/categories

EUH066	Skin Irrit. 2
H225	Flam. Liq. 2
H318	Eye Dam. 1
H319	Eye Irrit. 2
H336	STOT SE 3
H412	Aquatic Chronic 3

### 2.2 Label elements

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

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

# Safety Data Sheet

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

REF: 814401

Spray reagent f. Caffeine, 100 mL

Page: 2/9

Printing date: 02.06.2020

Date of issue: 05.09.2018

## 100 mL Caffeine spray reagent



GHS02



GHS05



GHS07

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.

## 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. Flammable properties. ---

### 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

---

## SECTION 3: Composition/information on ingredients

### 3.1 Substances or 3.2 Mixtures

#### 100 mL Caffeine spray reagent

Chemical: *acetone* CAS No.: 67-64-1  
 Classification: H225, Flam. Liq. 2, H319, Eye Irrit. 2, H336, STOT SE 3, EUH066, Skin Irrit. 2  
 Formula: C<sub>3</sub>H<sub>6</sub>O; (CH<sub>3</sub>)<sub>2</sub>-CO  
 Pseudonym: 2-propanone  
 TSCA Inventory: listed  
 REACH Reg. No.: 01-2119471330-49-xxxx  
 EC No.: 200-662-2  
 RTECS: AL3150000  
 KE No.: KE-29367  
 Concentration: 25 - <40 %  
 acc. CLP (GHS): H225, Flam. Liq. 2, H319, Eye Irrit. 2, H336, STOT SE 3, EUH066, Skin Irrit. 2

Indice No.: 606-001-00-8  
 MFCD: 00008765

Chemical: *iodine* CAS No.: 7553-56-2  
 Classification: H312, Acute Tox. 4 derm., H332, Acute Tox. 4 inh., H400, Aquatic Acute 1  
 Formula: I<sub>2</sub>  
 TSCA Inventory: listed  
 REACH Reg. No.: 01-2119485285-30-xxxx  
 EC No.: 231-442-4  
 RTECS: NN1575000  
 Concentration: 1 - <2.5 %  
 acc. CLP (GHS): H412, Aquatic Chronic 3

Indice No.: 053-001-00-3

# Safety Data Sheet

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

REF: 814401

Spray reagent f. Caffeine, 100 mL

Page: 3/9

Printing date: 02.06.2020

Date of issue: 05.09.2018

Chemical: *iron(III) chloride* CAS No.: 7705-08-0  
 Classification: H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H318, Eye Dam. 1  
 Formula: FeCl<sub>3</sub>  
 TSCA Inventory: listed  
 REACH Reg. No.: 01-2119497998-05-xxxx  
 EC No.: 231-729-4  
 RTECS: LJ9100000 MFCID: 00011004  
 Concentration: 3 - <10 %  
 acc. CLP (GHS): H318, Eye Dam. 1

Chemical: *L(+)-tartaric acid* CAS No.: 87-69-4  
 Classification: H319, Eye Irrit. 2  
 Formula: C<sub>4</sub>H<sub>6</sub>O<sub>6</sub>  
 Pseudonym: 2,3-dihydroxy- (2R,3R)-butanedioic acid  
 TSCA Inventory: listed  
 REACH Reg. No.: 01- 2119537204-47-xxxx  
 EC No.: 201-766-0  
 RTECS: WW7875000 MFCID: 00064207  
 KE No.: KE-10801  
 Concentration: 1 - <10 %  
 acc. CLP (GHS): The criteria for classification are not fulfilled.

### 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 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 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

DANGER: Highly flammable (GHS regulation). Forms explosive vapour-air mixtures. Formation of hazardous and caustic vapour-air mixtures possible. ---

# Safety Data Sheet

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

REF: 814401	Spray reagent f. Caffeine, 100 mL	Page: 4/9
Printing date: 02.06.2020	Date of issue: 05.09.2018	

**5.3 Advice for firefighters**  
No, for listed product. Product package burns like paper or plastic.

**5.4 Additional information**  
---

## 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.

**6.2 Environmental precautions**  
not necessary, contains only small amounts of these substances

**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): 3  
Water hazard class (DE): 2

**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 Caffeine spray reagent**

Chemical: *acetone* CAS No.: 67-64-1  
 DNEL: [inh] (1210) mg/m<sup>3</sup>  
DNEL = Derived No-Effect Level (for workers)  
 PNEC<sub>(fresh water)</sub>: 10.6 mg/L  
PNEC = Predicted No Effect Concentration  
 EU value: 500 ppm / 1200 mg/m<sup>3</sup>  
 TRGS 900 (DE): 500 mL/m<sup>3</sup> / 1200 mg/m<sup>3</sup>  
A/a aveoles passing, E/e respirable, G total  
 Short-term exposure factor: 2 (I), Y  
skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded  
 SUVA(CH) MAK value: 500 ppm/ 1200 mg/m<sup>3</sup>  
 SUVA(CH) BAT value: [U/b] 80 mg/L  
 TRGS 903 (DE): [U/b] 80 mg/L  
B blood, U urine, a no limitation, b end of exposition or shift  
 NIOSH: [TWA] 250 ppm / [STEL] 590 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] 1000 ppm / [STEL] 2400 mg/m<sup>3</sup>

Chemical: *iodine* CAS No.: 7553-56-2  
 EU value: STEL 0.1 ppm / 1.1 mg/m<sup>3</sup>  
 SUVA(CH) MAK value: 0,1 ppm / 1 mg/m<sup>3</sup>  
 NIOSH: C 0.1 ppm / 1 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: C 0.1 ppm / 1 mg/m<sup>3</sup>



# Safety Data Sheet

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

REF: 814401

Spray reagent f. Caffeine, 100 mL

Page: 5/9

Printing date: 02.06.2020

Date of issue: 05.09.2018

Chemical: *iron(III) chloride*  
 SUVA(CH) MAK value: 1 e mg/m<sup>3</sup>

CAS No.: 7705-08-0

Chemical: *L(+)-tartaric acid*  
 SUVA(CH) MAK value: [MAK] 2 e/[STEL] 4 e mg/m<sup>3</sup>

CAS No.: 87-69-4

## 8.2 Exposure controls

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 (f.ex. from Ansell or KCL). Use for short times chemical resistant latex or nitril gloves with code EN 374-3 level 1.

### 8.2.3 Eye protection

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 Personal hygiene

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 Caffeine spray reagent

Appearance: liquid

Colour: slightly yellow

Odor: odorless

pH:

2-3

### 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

Substances are very volatile and form flammable vapour-air mixtures. ---

## SECTION 10: Stability and reactivity

### 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.

# Safety Data Sheet

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

REF: 814401

Spray reagent f. Caffeine, 100 mL

Page: 6/9

Printing date: 02.06.2020

Date of issue: 05.09.2018

## 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 Caffeine spray reagent

Chemical: *acetone* CAS No.: 67-64-1  
 TSCA Inventory: listed California Proposition 65 List: not listed  
 ACGIH: 750 ppm  
 Exposure Routes: inhalation, ingestion, skin and/or eye contact  
 Target Organs: Eyes, skin, respiratory system, central nervous system  
 Symptoms: irritation eyes, nose, throat; headache, dizziness, central nervous system depression; dermatitis  
 Australia NICNAS: not listed Canada CEPA 1999: DSL yes  
 Japan CSCL/PRTR: [PAC] Yes, Japan PDSCL: not listed  
 Japan ISHL: listed  $\geq 1,0\%$ / $\geq 0,1\%$ , Article 57-1+2 (Labelling&SDS required)  
 South Korea TCCA: not listed  
 Korea Exist.Chem.Inventory: KE-29367  
 LD50<sub>orl rat</sub>: 5800 mg/kg  
 LC50<sub>ihl rat</sub>: [8h] 50.1 g/m<sup>3</sup>  
 LD50<sub>drm rbt</sub>: 7.426-15.8 g/kg

Chemical: *iodine* CAS No.: 7553-56-2  
 TSCA Inventory: listed  
 Exposure Routes: inhalation, ingestion, skin and/or eye contact  
 Target Organs: Eyes, skin, respiratory system, central nervous system, cardiovascular system  
 Symptoms: irritation eyes, skin, nose; lacrimation (discharge of tears); headache; chest tightness; skin burns, rash; cutaneous hypersensitivity  
 LD50<sub>orl rat</sub>: 14000 mg/kg

Chemical: *iron(III) chloride* CAS No.: 7705-08-0  
 TSCA Inventory: listed  
 Japan ISHL: listed  $>1,0\%$ / $>1,0\%$   
 LD50<sub>orl rat</sub>: 450 mg/kg

Chemical: *L(+)-tartaric acid* CAS No.: 87-69-4  
 TSCA Inventory: listed  
 Korea Exist.Chem.Inventory: KE-10801  
 LC<sub>LoWorl rat</sub>: 7500 mg/kg  
 LD50<sub>orl mus</sub>: 4360 mg/kg

## SECTION 12: Ecological information

### 12.1 Toxicity

Following information is valid for pure substances.

#### 100 mL Caffeine spray reagent

Chemical: *acetone* CAS No.: 67-64-1  
 PNEC (fresh water): 10.6 mg/L  
 PNEC = Predicted No Effect Concentration  
 LC50<sub>daphnia magna/48h</sub>: [48h] 8.8 g/L  
 LC50<sub>fish/96h</sub>: [4d] 5540 mg/L  
 EC50<sub>daphnia/48h</sub>: 2212 mg/L  
 IC50<sub>scenedesmus quadricauda/72h</sub>: IC5: 7500 mg/L  
 EC10<sub>pseudomonas putida/16h</sub>: [30 min] 61,15 g/L  
 Water hazard class (DE): 1 WGK No.: 0006  
 Dispersion coefficient<sub>(octanol-water)</sub>: -0.24  
 Storage class (VCI): 3

Chemical: *iodine* CAS No.: 7553-56-2  
 Harmful to aquatic life with long lasting effects. Avoid contact of substance/mixture to environment.  
 Environmental hazards must not be labelled with P phrases until 125 mL (EU 1272/2008 Annex I - 1.5.2).  
 Water hazard class (DE): 2 WGK No.: 0492  
 Storage class (VCI): 12-13



# Safety Data Sheet

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

REF: 814401

Spray reagent f. Caffeine, 100 mL

Page: 7/9

Printing date: 02.06.2020

Date of issue: 05.09.2018

Chemical:	<i>iron(III) chloride</i>	CAS No.:	7705-08-0
LC50 <sub>fish/96h</sub> :	23 <sub>24h</sub> mg/L		
EC50 <sub>daphnia/48h</sub> :	29.7 mg/L		
Water hazard class (DE):	1	WGK No.:	0515
Storage class (VCI):	8 B		
Chemical:	<i>L(+)-tartaric acid</i>	CAS No.:	87-69-4
Water hazard class (DE):	-	WGK No.:	(5094)
Dispersion coefficient <sub>(octanol-water)</sub> :	-0.76		
Storage class (VCI):	12-13		

## 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).

### 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 water.

## SECTION 14: Transport information

<b>14.1. UN number:</b>	<b>3316</b>	<b>14.2. UN proper shipping name:</b>	<b>Chemical Kit</b>
<b>14.3. Class:</b>	<b>9</b>	<b>14.4. Packing group:</b>	<b>II</b>
<i>Road transport</i>			
Classification code:	M11	Tunnel restriction code:	E
Limited Quantity:	acc. ADR 3.3.1/251: see LQ in Alternative declaration for transportation		
<i>Air transport</i>			
PAX:	960	max. weight PAX:	10 KG
CAO:	960	max. weight CAO:	10 KG
<i>Maritime transport</i>			
EmS:	F-A, S-P	Storage category:	A

Or use **Alternative declaration for transportation:**

<b>14.1 UN number:</b>	<b>1993</b>	<b>14.2 UN proper shipping name:</b>	<b>Flammable liquid, n.o.s. (acetone mixture)</b>
<b>14.3 Class:</b>	<b>3</b>	<b>14.4 Packing group:</b>	<b>III</b>
<i>Road transport</i>			
Classification code:	F1	Tunnel restriction code:	E
Limited Quantity:	5 L	Special instructions:	640E
Excepted Quantity:	E 1		
<i>Air transport</i>			
PAX:	355	max. weight PAX:	60 L
CAO:	366	max. weight CAO:	220 L
<i>Maritime transport</i>			
EmS:	F-E, S-E	Storage category:	A

## 14.5 Environmental hazards

none, contains only small quantities of hazardous substances, contains only small amounts of these substances

# Safety Data Sheet

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

REF: 814401

Spray reagent f. Caffeine, 100 mL

Page: 8/9

Printing date: 02.06.2020

Date of issue: 05.09.2018

## 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 ---

## SECTION 16: Other information

### 16.1 List of H and P phrases

#### 16.1.1 List of relevant H phrases

H225	Highly flammable liquid and vapour.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

#### 16.1.2 List of relevant P phrases

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233	Keep container tightly closed.
P260D	Do not breathe vapours.
P273	Avoid release to the environment.
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

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.

MACHEREY-NAGEL GmbH & Co. KG makes NO REPRESENTATIONS or WARRANTIES, either expressed or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly MACHEREY-NAGEL GmbH & Co. KG will not be responsible for damages resulting from use of or reliance upon this information. See terms and conditions at the end of our price lists for additional information.

### 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

Regulation 1480/2018/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 03/2019

SUVA .CH, Limits in air at work 2009, revised on 01.2009



# Safety Data Sheet

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

REF: 814401

Spray reagent f. Caffeine, 100 mL

Page: 9/9

Printing date: 02.06.2020

Date of issue: 05.09.2018

KÜHN, BIRETT      Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances)

## Revisions/Updates

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