ACHEREY-NAGEI



Safety Data Sheet

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

REF: 814921	2',7'-Dichlorofluorescein spr. 100 mL	Page: 1/7
Printing date: 02.06.2020	Date of issue: 20.05.2019	

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

1.1 Produc	t identifier
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REF Product name 814921 2',7'-Dichlorofluorescein spr. 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 2',7'-Dichlorofluorescein 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 (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 2',7'-Dichlorofluorescein spray reagent

	GHS02 GHS07
Signal word	DANGER
Hazard identification	Hazard classes/categories
H225 H319 H336, H335	Flam. Liq. 2 Eye Irrit. 2 STOT SE 3

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 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).

100 mL 2',7'-Dichlorofluorescein spray reagent



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Signal word: DANGER

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. Flammable properties. ---

Information pertaining to particular risks to human and possible symptoms

Information pertaining to particular risks to the environment

Other hazards

SECTION 3: Composition/information on ingredients

3.1 Substances or 3.2 Mixtures

100 mL 2',7'-Dichlorofluore Chemical: 2-pro	panol		CAS No.: 67-63-0
Classification:		1319, Eye Irrit. 2, H336, STOT SE 3	
Formula:	C ₃ H ₈ O		
Pseudonym:	isopropanol, IPA, pro	pan-2-ol	
TSCA Inventory:	listed		
REACH Reg. No.:	01-2119457558-25-X	XXX	
EC No.:	200-661-7	Indice No.:	603-117-00-0
RTECS:	NT8050000	MFCD:	00011674
KE No.:	KE-29363		
Concentration:	95 - <100 %		
acc. CLP (GHS):	H225, Flam. Liq. 2, H	1319, Eye Irrit. 2, H336, STOT SE 3	
.			
- , , , ,	dichlorfluorescein		CAS No.: 76-54-0
Classification:		n or naming of chemical not required.	
Formula:	C ₂₀ H ₁₀ Cl ₂ O ₅		
Pseudonym:		ydroxy-spiro[isobenzofuran-1(3H),9	-[9H]xanthen]-3-one
TSCA Inventory:	listed		
EC No.:	200-968-6	MFCD:	00005047
Concentration:	< 1.00 %		
acc. CLP (GHS):	The criteria for classificatio	on 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

CH:

SECTION 4: First aid measures

4.1 Description of first aid measures

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

4.1.1 After SKIN Contact

Remove contaminated clothing. 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 with eye washing bottle, eye douche or running water (protect intact eye).



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	-		
4.1.3	After INHALATION of vap After inhalation of foam or	pours [.] vapour fresh air should be inhaled. Keep airways free	
1.1.4	After ORAL Intake After oral intake lots of wa	ter should be drunk after it has been ingested	
4.2	Most important sympto	oms and effects, both acute and delayed	
4.3	 Indication of any imme No additionally recommendatio	ediate medical attention and special treatment ne	eeded
SECT	TION 5: Firefighting m	easures	
5.1		to the fire classification, and, if applicable, a fire blanket must be e FOAM, WATER SPRAY, DRY POWDER, CARBON DIOXIDE	
5.2	DANGER: Highly flammable (G mixtures possible	g from the substance or mixture GHS regulation). Forms explosive vapour-air mixtures. Formatior	n of hazardous and caustic vapour-air
5.3	Advice for firefighters No, for listed product. Product	package burns like paper or plastic.	
5.4	Additional information		
SECT	TION 6: Accidental rel	ease measures	
6.1	Personal precautions, J Do not breathe vapours. Regul	protective equipment and emergency procedure lar staff training is necessary.	es
6.2	Environmental precaut		
6.3	Methods and material f Bind any escaping liquid with ir	for containment and cleaning up nert absorbent. ed liquid and flush with water into drains.	
6.4	Reference to other sect	tions	
د=C 1	TION 7: Handling and	storaga	
3ECT 7.1	Precautions for safe ha	-	
		he test instruction, that comes with the product.	
7.2		orage, including any incompatibilities of MACHEREY-NAGEL allows a safe storage. 3 2	
7.2.1	Requirements for stock Keep original product pack	rooms and containers kages tightly closed during handling and storage.	
7.3	Specific end use(s) Product for analytical use.		
SECT	FION 8: Exposure con	trols/personal protection	
8.1	Control parameters		
	100 mL 2',7'-Dichlorofluc Chemical: 2-propanol DNEL: DNEL = Derived No-Eff	[inh] 500 mg/m³	CAS No.: 67-63-0
	PNEC(fresh water) : PNEC = Predicted No E		
			www.mn-net



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	TRGS 900 (DE):	200 ppm / 500 mg/m³ A/a aveoles passing, E/e respirable, G total	
	Short-term exposure factor skin resorptive (H), res	: 2 (II), Y piratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not s	securely excluded / (Y) certainly excluded
	SUVA(CH) MAK value: TRGS 903 (DE):	200 ppm / 500 mg/m³ [Aceton B/b, U/b] 25 mg/L B blood, U urine, a no limitation, b end of exposition or shift	
	NIOSH: NIOSH STEL: [TWA] Time-weighted at	[TWA] 400 ppm / 980 mg/m ³ 500 ppm / 1225 mg/m ³ erage to a reference period of 8 hours, [STEL] Short-term exposure	limit related to a 15-minute period
	OSHA:	[TWA] 400 ppm / 980 mg/m³	
	Chemical: 2',7'-dichlorf	uorescein	CAS No.: 76-54-0
8.2	Exposure controls		
	The highest level of cleanliness	must be maintained at the workplace.	
8.2.1	Respiratory protection No additional recommendation	tions.	
8.2.2		374 (permeation time >30 min - level 2), consist of PV0 nitril gloves with code EN 374-3 level 1.	C (f.ex. from Ansell or KCL). Use for short times
8.2.3	Eye protection Yes, safety glasses accord	ing EN 166 with integrated side shields or wrap-around	d protection.
8.2.4	Skin protection Not necessary.		
8.2.5	with the skin, eyes and clo	aking snuff and storage of food in work areas and at o hing. Rinse any clothing on which the substance has b vater when stopping work and before eating, and then a	een spilled, and soak it in water. Wash hands

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

100 mL 2',7'-Dichlorofluorescein spray reagent

Appearance: liquid	Colour: green
Melting point:	-90 °C
Boiling point:	82 °C
Flash point:	12 °C
Explosion limits:	212.7 Vol%
Vapour pressure (20°C):	43 hPa
Vapour density _(air=1) :	2,08
Specific gravity:	0,785 g/cm ³
Solubility in water:	0-100 %
Flashing temperature:	425 °C
Volatiles by volume:	106 g/m³

Odor: alcoholic

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 volantile 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.



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REF: 814921 2',7'-Dichlorofluorescein spr. 100 mL Page: 5/7 Printing date: 02.06.2020 Date of issue: 20.05.2019 10.3 Possibility of hazardous reactions No further data available. 10.4 Conditions to avoid 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 2',7'-Dichlorofluorescein spray reagent Chemical: 2-propanol CAS No.: 67-63-0 **TSCA** Inventory: listed California Proposition 65 List: not listed ACGIH: 1230 ppm Exposure Routes: inhalation, ingestion, skin and/or eye contact Target Organs: Eyes, skin, respiratory system Symptoms: irritation eyes, nose, throat; drowsiness, dizziness, headache; dry cracking skin; in animals: narcosis Australia NICNAS: Canada CEPA 1999: DSL yes Japan CSCL/PRTR: PAC yes, Japan PDSCL: listed ≥1,0%/≥0,1%, Article 57-2 (SDS required) Japan ISHL: South Korea TCCA: Korea Exist.Chem.Inventory: KE-29363 LD50orl rat : 5045 mg/kg 3570 mg/kg LC Loworl hmn : LC50ihl rat : 164h g/m³ LD50_{drm rbt} : 12.8 g/kg TRGS 905 (DE): R_FC Chemical: 2',7'-dichlorfluorescein CAS No.: 76-54-0 **TSCA** Inventory: listed SECTION 12: Ecological information 12.1 Toxicity Following information is valid for pure substances. 100 mL 2',7'-Dichlorofluorescein spray reagent CAS No.: 67-63-0 Chemical. 2-propanol PNEC(fresh water) PNEC = Predicted No Effected Concentration 140.9 mg/L LC50_{fish/96h}: 1400 mg/L EC50_{daphnia/48h}:

13.3 g/L IC50scenedesmus quadricauda/72h >1000 mg/L EC10pseudomonas putita/16h : EC5: 1050 mg/L

1

0.05

WGK No.: 0135

Storage class (VCI): Chemical: 2'.7'-dichlorfluorescein Water hazard class (DE): 2

12.2 Persistence and degradability

Water hazard class (DE):

Dispersion coefficient(octanol-water):

not necessary

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

no additional data available

SECTION 13: Disposal considerations

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

13.1 Waste treatment methods

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

SECTION 14: Transport information

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

Or use Alternative declaration for transportation:

14.1 UN number: 14.3 Class:		UN proper shipping name: Flammable liquid, n.o.s. (2-propanol mixture) Packing group: II
Road transport		
Classification code:	F1	
Limited Quantity:	1 L	Tunnel restriction code: E
Excepted Quantity: Air transport	E 2	Special instructions: 640C
PAX:	353	max. weight PAX: 5 L
CAO: Maritime transport	364	max. weight CAO: 60 L
EmS:	F-E, S-E	Storage category: B

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.



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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 H319 H336	Highly flammable liquid and vapour. Causes serious eye irritation. May cause drowsiness or dizziness.	
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.	
	P280sh	Wear protective gloves/eye protection.	

16.2 Training advice

1

Regular safety training.

16.3 Recommended restriction on use

Only for professional user.

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

16.4 Further information

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

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16.5 Sources of key data

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

Revisions/Updates

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

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