

Safety Data Sheet

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

REF: 90765

INDIPRO

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Printing date: 09.05.2017

Date of issue: 28.03.2017

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

1.1 Product identifier

REF 90765
Product name INDIPRO

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 15 mL INDIPRO-1
1 x 15 mL INDIPRO-2
60 x Test strips

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: 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/MSDS>

SECTION 2: Hazard identification

2.0 Classification of the complete product

Directive 1999/45/EC

Symbols -
R -

CLP Directive 1272/2008/EC

GHS pictograms



GHS02

Signal word WARNING

Hazard identification Hazard classes/categories

H226 Flam. Liq. 3

2.1 Classification of the substance or mixture

15 mL INDIPRO-1

Directive 1999/45/EC

-

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Symbols do not need labelling as hazardous
 CLP Directive 1272/2008/EC

GHS pictograms



GHS02

Signal word WARNING

Hazard identification	Hazard classes/categories
H226	Flam. Liq. 3

15 mL INDIPRO-2

Directive 1999/45/EC

Symbols do not need labelling as hazardous

CLP Directive 1272/2008/EC

GHS pictograms



GHS02

Signal word WARNING

Hazard identification	Hazard classes/categories
H226	Flam. Liq. 3

Test strips

Directive 1999/45/EC

Symbols do not need labelling as hazardous

CLP Directive 1272/2008/EC

GHS pictograms do not need labelling as hazardous

Signal word -

No hazard class

2.2 Label elements

According 1999/45/EC small amounts of harmful and highly flammable preparations/mixtures have partly/completely exemption from labelling (no symbols F, O, Xn, Xi, N and no R and S phrases are necessary) until **25-125 mL**g .

According **CLP (GHS)** inner packages must be only labelled with symbol(s) and product identifier (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).

15 mL INDIPRO-1

Directive 1999/45/EC

Symbols:

-

CLP Directive 1272/2008/EC

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GHS pictograms:



GHS02

Signal word: WARNING

15 mL INDIPRO-2

Directive 1999/45/EC

Symbols:

-

CLP Directive 1272/2008/EC

GHS pictograms:



GHS02

Signal word: WARNING

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

Signal word: -

2.3 Other hazards

Possible Hazards from physicochemical Properties

Flammable properties. Vapour forms explosive mixtures with air.

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

15 mL INDIPRO-1

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Chemical: *ethanol* (denatured with MEK, acc. 3199/93/EC) CAS No.: 64-17-5
 Concentration: 35 - <55 %
 Formula: C₂ H₆ O
 Pseudonym: ethyl alcohol, methylated spirit
 REACH Reg. No.: 01-2119457610-43-xxxx
 EC No.: 200-578-6 Indice No.: 603-002-00-5
 RTECS: KQ6300000 MFCD: 00003568
 TSCA Inventory: listed
 KE No.: KE-13217
 acc. 1999/45/EC: R 10 acc. CLP (GHS): H226

15 mL INDIPRO-2

Chemical: *ethanol* (denatured with MEK, acc. 3199/93/EC) CAS No.: 64-17-5
 Concentration: 20 - <35 %
 Formula: C₂ H₆ O
 Pseudonym: ethyl alcohol, methylated spirit
 REACH Reg. No.: 01-2119457610-43-xxxx
 EC No.: 200-578-6 Indice No.: 603-002-00-5
 RTECS: KQ6300000 MFCD: 00003568
 TSCA Inventory: listed
 KE No.: KE-13217
 acc. 1999/45/EC: R 10 acc. CLP (GHS): H226

Chemical: *indicator dye(s)* CAS No.: -
 Concentration: 0,1 - <1 %
 TSCA Inventory: all <1%
 acc. 1999/45/EC: - acc. CLP (GHS): not necessary

Test strips

Chemical: *cellulose* CAS No.: 9004-34-6
 Concentration: 1 - <10 %
 Formula: (C₆ H₁₀ O₅)_n
 REACH Reg. No.: exempt, Annex IV
 EC No.: 232-674-9
 RTECS: FJ5691460
 TSCA Inventory: listed
 KE No.: KE-05339
 acc. 1999/45/EC: - acc. CLP (GHS): not necessary

Chemical: *chemicals/mixture < 1%, no declaration necessary* CAS No.: -
 Concentration: 0,1 - <1 %
 TSCA Inventory: all <1%
 KE No.: listed
 acc. 1999/45/EC: - acc. CLP (GHS): not necessary

Chemical: *PVC foil (CAS 9002-86-2)* CAS No.: -
 Concentration: 95 - <100 %
 TSCA Inventory: listed
 acc. 1999/45/EC: - acc. CLP (GHS): not necessary

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.

4.1.1 After SKIN Contact

Remove dust with wetted tissue. Remove contaminated clothing. Rinse the affected skin or mucous membrane thoroughly under running water.

4.1.2 After EYE Contact

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Rub dust with teardrops from eyes or: 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).

4.1.3 After INHALATION of Vapours

After inhalation of dust fresh air should be inhaled.

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

Avoid inhalation of dust. ---

4.3 Indication of any immediate medical attention and special treatment needed

No additionally recommendations. ---

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

WARNING: Flammable (GHS regulation). May form explosive vapour-air mixtures. ---

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

Regular staff training is necessary.

6.2 Environmental precautions

not necessary

6.3 Methods and material for containment and cleaning up

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): 1

7.2.1 Requirements for Stock Rooms and Containers

Keep original product packages tightly closed during handling and storage.

7.3 Specific end use(s)

Product for analytical use.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

15 mL INDIPRO-1

Chemical: *ethanol*

DNEL: 950_{inh-sys} mg/m³

DNEL = Derived No-Effect Level (for workers)

PNEC_(fresh water): 0.96 mg/L

CAS No.: 64-17-5



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PNEC = Predicted No Effect Concentration

TRGS 900 (DE): 500 mL/m³ / 960 mg/m³
E/e respirable

Short-term exposure factor: 2 (II), Y
skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded

SUVA(CH) MAK value: 500 ppm / 960 mg/m³

NIOSH: TWA 1000 ppm / 1900 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 1000 ppm / 1900 mg/m³

15 mL INDIPRO-2

Chemical: *ethanol*

CAS No.: 64-17-5

DNEL: 950^{inh-sys} mg/m³
DNEL = Derived No-Effect Level (for workers)

PNEC_(fresh water): 0.96 mg/L
PNEC = Predicted No Effect Concentration

TRGS 900 (DE): 500 mL/m³ / 960 mg/m³
E/e respirable

Short-term exposure factor: 2 (II), Y
skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded

SUVA(CH) MAK value: 500 ppm / 960 mg/m³

NIOSH: TWA 1000 ppm / 1900 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 1000 ppm / 1900 mg/m³

Chemical: *indicator dye(s)*

CAS No.: -

Test strips

Chemical: *cellulose*

CAS No.: 9004-34-6

TRGS 900 (DE): Staub 1.25 A / 4 E mg/m³
E/e respirable

SUVA(CH) MAK value: 3 a ppm

NIOSH: TWA 10 (total) / 5 (resp) 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 15 (total) / 5 (resp) mg/m³

Chemical: *chemicals/mixture < 1%, no declaration necessary*

CAS No.: -

Chemical: *PVC foil (CAS 9002-86-2)*

CAS No.: -

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, 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 Eye Protection

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

8.2.4 Skin Protection

Not necessary.

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.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

15 mL INDIPRO-1

Appearance: liquid	Colour: colourless	Odor: alcoholic
Flash point:	24 °C	
Specific gravity:	0,93 g/mL	
Solubility in water:	0-100 %	

15 mL INDIPRO-2

Appearance: liquid	Colour: yellow	Odor: alcoholic
pH:	2,5-3	
Flash point:	26 °C	
Specific gravity:	0,95 g/mL	
Solubility in water:	0-100 %	

Test strips

Appearance: solid	Colour: colored	Odor: odorless
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9.2 Other information

Relevant Properties of Substance Group

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

No known instability.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

10.5 Incompatible materials

Not necessary. Avoid contact with concentrated acids and oxidizing agents.

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.

15 mL INDIPRO-1

Chemical:	<i>ethanol</i>	CAS No.:	64-17-5
TSCA Inventory:	listed	California Proposition 65 List:	not listed
ACGIH:	1000 ppm		
Exposure Routes:	inhalation, ingestion, skin and/or eye contact		
Target Organs:	Eyes, skin, respiratory system, central nervous system, liver, blood, reproductive system		
Symptoms:	irritation eyes, skin, nose; headache, drowsiness, lassitude (weakness, exhaustion), narcosis; cough;		
	liver damage; anemia; reproductive, teratogenic		
Australia NICNAS:	not listed	Canada CEPA 1999:	DSL yes
Japan CSCL/PRTR:	not listed		
Japan PDSCL:	not listed	Japan ISHL:	listed ≥0,1%/≥0,1%, Article 57-2 (SDS required)
South Korea TCCA:	not listed		
Korea Exist.Chem.Inventory:	KE-13217		
LD50 _{orl rat} :	6200 mg/kg		
LC ₁₀ _{inh} gpg:	21.9 g/m ³		
LC ₁₀ _{orl hmn} :	1400 mg/kg		
LC50 _{inh mouse} :	394h g/m ³		

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LC50_{ihl rat} : 20_{10h} g/m³
 LD50_{drm rbt} : 20 000 mg/kg
 LD50_{oral mouse} : 3450 mg/kg
 TRGS 905 (DE): K5, M5, R_F C

15 mL INDIPRO-2

Chemical: *ethanol* CAS No.: 64-17-5
 TSCA Inventory: listed California Proposition 65 List: not listed
 ACGIH: 1000 ppm
 Exposure Routes: inhalation, ingestion, skin and/or eye contact
 Target Organs: Eyes, skin, respiratory system, central nervous system, liver, blood, reproductive system
 Symptoms: irritation eyes, skin, nose; headache, drowsiness, lassitude (weakness, exhaustion), narcosis; cough; liver damage; anemia; reproductive, teratogenic
 Australia NICNAS: not listed Canada CEPA 1999: DSL yes
 Japan CSCL/PRTR: not listed Japan ISHL: listed ≥0,1%/≥0,1%, Article 57-2 (SDS required)
 Japan PDSCL: not listed
 South Korea TCCA: not listed
 Korea Exist.Chem.Inventory: KE-13217
 LD50_{orl rat} : 6200 mg/kg
 LC_{Lowihl gpg} : 21.9 g/m³
 LC_{Loworl hmn} : 1400 mg/kg
 LC50_{ihl mouse} : 39_{4h} g/m³
 LC50_{ihl rat} : 20_{10h} g/m³
 LD50_{drm rbt} : 20 000 mg/kg
 LD50_{oral mouse} : 3450 mg/kg
 TRGS 905 (DE): K5, M5, R_F C

Chemical: *indicator dye(s)* CAS No.: -
 TSCA Inventory: all <1%

Test strips

Chemical: *cellulose* CAS No.: 9004-34-6
 TSCA Inventory: listed California Proposition 65 List: not listed
 Exposure Routes: inhalation, skin and/or eye contact
 Target Organs: Eyes, skin, respiratory system
 Symptoms: irritation eyes, skin, mucous membrane
 Australia NICNAS: not listed Canada CEPA 1999: DSL yes
 Japan CSCL/PRTR: not listed Japan ISHL: not listed
 Japan PDSCL: not listed
 South Korea TCCA: not listed
 Korea Exist.Chem.Inventory: KE-05339
 LD50_{orl rat} : >5000 mg/kg
 LC50_{ihl rat} : >5800_{4h} mg/m³
 LD50_{drm rbt} : >2000 mg/kg

Chemical: *chemicals/mixture < 1%, no declaration necessary* CAS No.: -
 TSCA Inventory: all <1%
 Korea Exist.Chem.Inventory: listed

Chemical: *PVC foil (CAS 9002-86-2)* CAS No.: -
 TSCA Inventory: listed



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SECTION 12: Ecological information

12.1 Toxicity

Following information is valid for pure substances.

15 mL INDIPRO-1

Chemical:	<i>ethanol</i>	CAS No.:	64-17-5
PNEC (fresh water):	0.96 mg/L		
PNEC = Predicted No Effect Concentration			
LC50 daphnia magna/48h:	>100 mg/L		
LC50 pimephales promelas/96h:	13400 - 15100 mg/L		
LC50 leuciscus idus/96h:	8140 _{48h} mg/L		
LC50 fish/96h:	13 g/L		
EC50 daphnia/48h:	9.3-14.2 g/L		
IC50 scenedesmus quadricauda/72h:	5000 _{7d} mg/L		
EC10 pseudomonas putita/16h:	EC5: 6500 mg/L		
Water hazard class (DE):	1	WGK No.:	0096
Dispersion coefficient (octanol-water):	-0.31		
Storage class (VCI):	3		

15 mL INDIPRO-2

Chemical:	<i>ethanol</i>	CAS No.:	64-17-5
PNEC (fresh water):	0.96 mg/L		
PNEC = Predicted No Effect Concentration			
LC50 daphnia magna/48h:	>100 mg/L		
LC50 pimephales promelas/96h:	13400 - 15100 mg/L		
LC50 leuciscus idus/96h:	8140 _{48h} mg/L		
LC50 fish/96h:	13 g/L		
EC50 daphnia/48h:	9.3-14.2 g/L		
IC50 scenedesmus quadricauda/72h:	5000 _{7d} mg/L		
EC10 pseudomonas putita/16h:	EC5: 6500 mg/L		
Water hazard class (DE):	1	WGK No.:	0096
Dispersion coefficient (octanol-water):	-0.31		
Storage class (VCI):	3		

Chemical:	<i>indicator dye(s)</i>	CAS No.:	-
Storage class (VCI):	12-13		

Test strips

Chemical:	<i>cellulose</i>	CAS No.:	9004-34-6
Water hazard class (DE):	nwg		
Storage class (VCI):	11		

Chemical:	<i>chemicals/mixture < 1%, no declaration necessary</i>	CAS No.:	-
Water hazard class (DE):	1		
Storage class (VCI):	12-13		

Chemical:	<i>PVC foil (CAS 9002-86-2)</i>	CAS No.:	-
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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

SECTION 14: Transport information

UN 1993 class 3 III, Excepted Quantities ($\leq 30 \text{ mL}/\Sigma \leq 1 \text{ L}$) = ADR/ IATA E1
or

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

15.2 Chemical safety assessment

not necessary for these small amounts ---

SECTION 16: Other Information

16.1 List of R, H and P phrases

16.1.1 List of relevant R phrases

R10 Flammable.

16.1.2 List of relevant H phrases

H226 Flammable liquid and vapour.

16.1.3 List of relevant P phrases

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

16.2 Training Advice

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
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)

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Revisions/Updates

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

