# MACHEREY-NAGEI



# Safety Data Sheet

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

REF: 701460.201	Silyl-1139, 20x1 mL	Page: 1/7
Printing date: 02.06.2020	Date of issue: 02.01.2019	

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

#### 1.1 Product identifier

REF Product name 701460.201 Silyl-1139, 20x1 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.

20 x 1 mL SILYL 1139

#### 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

1 mL SILYL 1139

	GHS02 GHS07 GHS08			
Signal word	DANGER			
Hazard identification	Hazard classes/categories			
H225	Flam. Lig. 2			
H302	Acute Tox. 4 oral			
H312	Acute Tox. 4 derm.			
H315	Skin Irrit. 2			
H319	Eye Irrit. 2			
H332	Acute Tox. 4 inh.			
H335	STOT SE 3			
H360	Repr. 1B			

#### 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). Inner packages up to 10 mL need max. 2 symbols (Annex I - 1.5.2.4.1 / 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).

MACHEREY-NAGE <mn> ISO 9001 CERTIFIEI

MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany DE/international: CH: FR: US: Tel.: +49 24 21 969-0 Tel.: +41 62 388 55 00 Tel.: +33 388 68 22 68 Tel.: +1 484 821 0984 Fax: +49 24 21 969-199 Fax: +41 62 388 55 05 Fax: +33 388 51 76 88 Fax: +1 484 821 1272 Version: M V 4.12.0 E-mail: info@mn-net.com E-mail: sales-ch@mn-net.com E-mail: sales-fr@mn-net.com E-mail: sales-us@mn-net.com



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

REF: 701460.201	Silyl-1139, 20x1 mL	Page: 2/7
Printing date: 02.06.2020	Date of issue: 02.01.2019	





GHS02 GHS08 GHS07

Signal word: DANGER

H360

May damage fertility or the unborn child.

P280sh, P308+313, P405 Wear protective gloves/eye protection. IF exposed or concerned: Get medical advice/attention. Store locked up.

#### 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 Cause after oral intake, inhalation of vapours/dust, impairments of health when ingested in small quantities. May damage fertility or the unborn child. -

Information pertaining to particular risks to the environment not applicable PBT: vPvB: not applicable

Other hazards

Contains an odor intensive reagent. ---

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

#### 3.1 Substances or 3.2 Mixtures

1 mL SILYL 1139

Chemical: pyridin	e		CAS No.: 110-86-1
Classification:	H225, Flam. Liq. 2, H302, Acute To	x. 4 oral, H312, Acute	Tox. 4 derm., H332, Acute Tox. 4 inh.
Formula:	$C_5 H_5 N$		
Pseudonym:	Azabenzene, Azine		
TSCA Inventory:	listed		
REACH Reg. No.:	01-2119493105-40-xxxx		
EC No.:	203-809-9	Indice No.:	613-002-00-7
RTECS:	UR8400000	MFCD:	00011732
KE No.:	KE-29929		
Concentration:	75 - <90 %		
acc. CLP (GHS):	H225, Flam. Liq. 2, H302, Acute To	x. 4 oral, H312, Acute	Tox. 4 derm., H332, Acute Tox. 4 inh.
Chemical: N-trime	ethylsilyl-imidazole (TMS-Imidazole)		CAS No.: 18156-74-6
Classification:	H225, Flam. Lig. 2, H315, Skin Irrit.	2 4210 Evo Irrit 2 4	
Formula:	C <sub>6</sub> H <sub>12</sub> N <sub>2</sub> Si	2, 11519, Lye iint. 2, 1	1355, 5101 SE 5, 11500, Repl. 1D
Pseudonym:	1H-Imidazole, 1-(trimethylsilyl)-		
TSCA Inventory:	listed		
EC No.:	242-040-3		
RTECS:	NI8700000	MFCD:	00005280
Concentration:	20 - <25 %		0000200
acc. CLP (GHS):	H225, Flam. Liq. 2, H315, Skin Irrit.	2 H319 Eve Irrit 2 H	1335 STOT SE 3 H360 Repr. 1B
(0110).		_,, c,	1000, 0101 0E 0, 11000, 110pi. 1D

#### 3.3 Remarks

List of H and P phrases: see section 16.1



MACHEREY-NAGEL	MACH	HEREY-NAGEL GmbH & Co	o. KG ∙ I	Neumann-Neander-Str. 6–8	· 5235	5 Düren · Germany		
	DE/in	iternational:	CH:		FR:		US:	
	Tel.:	+49 24 21 969-0	Tel.:	+41 62 388 55 00	Tel.:	+33 388 68 22 68	Tel.:	+1 484 821 0984
ISO 9001 CERTIFIED	Fax:	+49 24 21 969-199	Fax:	+41 62 388 55 05	Fax:	+33 388 51 76 88	Fax:	+1 484 821 1272
Version: M V 4.	, <sub>12.0</sub> E-mai	l: info@mn-net.com	E-mai	il: sales-ch@mn-net.com	E-mai	l: sales-fr@mn-net.com	E-mai	il: sales-us@mn-net.com



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

REF: 7	01460.201	Silyl-1139, 20x1 mL	Page: 3/7
Printing date: 02.06.2020 Date of issue: 02.01.2019			
SEC	ION 4: First aid measu	res	
4.1		er zone to fresh air immediately. Ensure quiet, warmth, and provide re	esuscitation if necessary. If
	necessary contact medical advice		
4.1.1	After SKIN Contact Remove contaminated clothin soap.	ng. Rinse the affected skin or mucous membrane thoroughly under ru	Inning water. (If possible) use
4.1.2	After EYE Contact After contact with the eyes rin running water (protect intact of	nse thoroughly under running water with the eyelid wide open with ey eye).	e washing bottle, eye douche or
4.1.3	After INHALATION of vapor After inhalation of foam or va	u <b>rs</b> pour 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 symptom CMR Effects: May damage fertility	s and effects, both acute and delayed v or the unborn child	
4.3	Indication of any immedia	ate medical attention and special treatment needed	

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

5.2

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.

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. --

#### 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. Regular staff training is necessary.
- 6.2 **Environmental precautions** not necessary
- 6.3 Methods and material for containment and cleaning up Bind any escaping liquid with inert absorbent. 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. Products containing also toxic substances should be kept locked up. Storage class (VCI): Water hazard class (DE): 2



MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany DE/international: CH: FR: US: Tel.: +49 24 21 969-0 Tel.: +41 62 388 55 00 Tel.: +33 388 68 22 68 Tel.: Fax: +49 24 21 969-199 Fax: +41 62 388 55 05 Fax: +33 388 51 76 88 Fax: Version: M V 4.12.0 E-mail: info@mn-net.com E-mail: sales-ch@mn-net.com E-mail: sales-fr@mn-net.com

+1 484 821 0984 +1 484 821 1272 E-mail: sales-us@mn-net.com



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

REF: 701460.201	Silyl-1139, 20x1 mL	Page: 4/7
Printing date: 02.06.2020	Date of issue: 02.01.2019	

7.2.1

Requirements for stock rooms and containers

Keep original product packages tightly closed during handling and storage, so that they are not immediately accessible to outside parties.

#### 7.3 Specific end use(s)

Product for analytical use.

### SECTION 8: Exposure controls/personal protection

#### 8.1 **Control parameters**

1 mL SILYL 1139 Chemical: pyridine		CAS No.: 110-86-1
PNEC (fresh water) : PNEC = Predicted No Effect	300 μg/L cted Concentration	
EU value: TRGS 900 (DE):	[TWA] 5 ppm / 15 mg/m³ [8h] 5 ppm / 15 mg/m³ E/e respirable	
Short-term exposure factor: skin resorptive (H), respira	2 (II) atory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not	t securely excluded / (Y) certainly excluded
NIOSH:	5 ppm / 15 mg/m³ [TWA] 5 ppm / 15 mg/m³ age to a reference period of 8 hours, [STEL] Short-term exposur	e limit related to a 15-minute period
OSHA:	[TWA] 5 ppm / 15 mg/m³	
Chemical: N-trimethylsilyl	-imidazole (TMS-Imidazole)	CAS No.: 18156-74-6

Chemical: N-trimethylsilyl-imidazole (TMS-Imidazole)

#### 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 (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.

#### 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

1 mL SILYL 1139 Appearance: liquid

Flash point:

Colour: colourless 17 °C

Odor: like pyridine

E-mail: sales-fr@mn-net.com

#### 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. ---

ACHEREY-NAGE (MN> ISO 9001 CERTIFIEI

MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany DE/international: CH: FR: Tel.: +49 24 21 969-0 Tel.: +41 62 388 55 00 Tel.: +33 388 68 22 68 Fax: +49 24 21 969-199 Fax: +41 62 388 55 05 Fax: +33 388 51 76 88

E-mail: sales-ch@mn-net.com

US: Tel.: +1 484 821 0984 +1 484 821 1272 Fax: E-mail: sales-us@mn-net.com

www.mn-net.com

Version: M V 4.12.0 E-mail: info@mn-net.com



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

REF: 7	01460.201		Silyl-1139, 20x1 mL	Page: 5/7
Printing	Printing date: 02.06.2020 Date of issue:		Date of issue: 02.01.2019	
SECI	ION 10: Stability	y and reactivity	y .	
10.1	<b>Reactivity</b> . Reacts with water (so	ometimes violent) and c	liverse organic compounds. no further data available.	
10.2	Chemical stabilit No known instability.	y		
10.3	<b>Possibility of ha</b> No further data availab	zardous reactions	6	
10.4	Conditions to av Not necessary	oid		
10.5	Incompatible ma Avoid contact with stre			
10.6		1 0	c <b>ts</b> are safety and separated stored. Decompositions are not observed duri	ng the expiration
SECI	ION 11: Toxicol	ogical informa	tion	
11.1		Dxicological effec	<b>ts</b> ostances. Quantitative data on the toxicity of this product are not availa	able.
	1 mL SILYL 1139	nyridine	CAS No. 110-86-1	

Chemical:	pyridine		CAS No.: 110-86-1
TSCA Inventory:	listed	California Proposition 6	65 List: listed cancer
Exposure Routes:	inhalation, s	kin absorption, ingestion, skin an	d/or eye contact
Target Organs:	Eyes, skin, o	entral nervous system, liver, kidr	neys, gastrointestinal tract,
Symptoms:	irritation eye	s; headache, anxiety, dizziness,	nsomnia; nausea, anorexia; dermatitis; liver, kidney
damage		-	
Japan CSCL/PRTR	:: PRTR: ≥1,0 <sup>o</sup>	% class I	
Japan ISHL:	listed ≥1,0%	/≥0,1%,	
Korea Exist.Chem.I	nventory: KE-29929		
LD50 <sub>orl rat</sub> :	800-1600 m	g/kg	
LC_Lowihl rat :	[4h] 4900 pp	m	
LC_Loworl gpg :	4000 mg/kg		
LC_Loworl hmn :	500 mg/kg		
LC50 <sub>ihl rat</sub> :	28500 <sub>1h</sub> mg/	m <sup>3</sup>	
LD50 <sub>drm rbt</sub> :	1000-2000 r	ng/kg	
Acute Effects: Caus	se after oral intake, inha	alation of vapours/dust, skin cont	act, impairments of health when ingested in small
quantities.			
TRGS 905 (DE):	[DFG] carc.	3B	
Chemical:		azole (TMS-Imidazole)	CAS No.: 18156-74-6
TSCA Inventory:	listed		
LC_Low <sub>ipt mus</sub> :	750 mg/m <sup>3</sup>		
			n when ingested in small quantities.
Carcinogenic Effect	s: May damage fertility	or the unborn child.	

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

Following information is valid for pure substances.

1 mL SILYL 1139 Chemical: pyridine PNEC(fresh water) : PNEC = Predicted No Effected Concentration	300 µg/L	CAS No.: 110-86-1
LC50fish/96h : EC50daphnia/48h : IC50 <sub>scene</sub> desmus quadricauda/72h : EC10 <sub>pseudomonas</sub> putita/16h : Water hazard class (DE): Dispersion coefficient <sub>(octanol-water)</sub> : Storage class (VCI):	[EC50 4h] 560-1000 mg/L 320 mg/L IC5/7d: 120 mg/L [EC50 72h] 320 mg/L mg/L 2 WGK No.: 0179 0.64 3	

MACHEREY-NAGE (MN) ISO 9001 CERTIFIED

MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany DE/international: CH: FR: Tel.: +41 62 388 55 00 Tel.: +49 24 21 969-0 Tel.: +33 388 68 22 68 +49 24 21 969-199 Fax: +41 62 388 55 05 Fax: Fax: +33 388 51 76 88 Version: MV 4.12.0 E-mail: info@mn-net.com E-mail: sales-ch@mn-net.com E-mail: sales-fr@mn-net.com

US: Tel.: +1 484 821 0984 Fax: +1 484 821 1272 E-mail: sales-us@mn-net.com



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

REF: 701460.201		Silyl-1139, 20x1 mL	Page: 6/7
Printing	Printing date:         02.06.2020         Date of issue:         02.01.2019		
	Chemical: <i>N-trii</i> Water hazard class (DE):	nethylsilyl-imidazole (TMS-Imidazole) 1	CAS No.: 18156-74-6
	Storage class (VCI):	3 A	
12.2	Persistence and degradabi	lity	
	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). Close container tightly.

### 13.1 Waste treatment methods

Normally it is possible to empty small amounts (diluted!) into drains. Dispose of contents/container to regulated waste treatment.

### **SECTION 14: Transport information**

14.1 - 14.4: No dangerous goods according the transport regulations because

for amounts until 5 pc. à 20x 1 mL per fibre box **De Minimis** (excepted quantities:  $\leq 1 \text{ mL}/\sum \leq 100 \text{ mL}$ ) = ADR 3.5.1.4 **De Minimis** (excepted quantities:  $\leq 1 \text{ mL}/\sum \leq 100 \text{ mL}$ ) = IATA DRG 2.6.10

### 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.

### 15.2 Chemical safety assessment not necessary for these small amounts ---



 MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6–8 · 52355 Düren · Germany

 DE/international:
 CH:
 FR:

 Tel.:
 +49 24 21 969-0
 Tel.:
 +41 62 388 55 00
 Tel.:
 +33 388 68 22 68

 
 ISO 9001 CERTIFIED
 Fax: +49 24 21 969-199

 Version: M V 4.12.0
 E-mail: info@mn-net.com
 Tel.: +41 62 388 55 00 Fax: +41 62 388 55 05 E-mail: sales-ch@mn-net.com FR: Tel.: +33 388 68 22 68 Fax: +33 388 51 76 88 E-mail: sales-fr@mn-net.com

US: Tel.: +1 484 821 0984 Fax: +1 484 821 1272 E-mail: sales-us@mn-net.com

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

REF: 701460.201	Silyl-1139, 20x1 mL	Page: 7/7
Printing date: 02.06.2020	Date of issue: 02.01.2019	
SECTION 16: Other information		

## 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.	
	H302	Harmful if swallowed.	
	H312	Harmful in contact with skin.	
	H315	Causes skin irritation.	
	H319	Causes serious eye irritation.	
	H332	Harmful if inhaled.	
	H335	May cause respiratory irritation.	
	H360	May damage fertility or the unborn child.	
16.1.2	List of relevant P phrases		
	P201	Obtain special instructions before use.	
	P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.	
	P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.	
	P210 P233	Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed.	
	P210 P233 P261sh	Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed. Avoid breathing dust/vapours.	
	P210 P233 P261sh P264W	Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed. Avoid breathing dust/vapours. Wash with water thoroughly after handling.	

P308+313 IF exposed or concerned: Get medical advice/attention. P330 Rinse mouth.

P403+233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up.

#### 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.

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, 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 Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work TRGS 905, German engineering rules governing carcinogens and mutagens, updated 03/18 KÜHN, BIRETT Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances)

### **Revisions/Updates**

+49 24 21 969-0

+49 24 21 969-199

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



Tel.:

Fax:

Version: M V 4.12.0 E-mail: info@mn-net.com

Tel.:

Fax:

+41 62 388 55 00 Tel.: +41 62 388 55 05 Fax: E-mail: sales-ch@mn-net.com

FR: +33 388 68 22 68 +33 388 51 76 88 E-mail: sales-fr@mn-net.com US: Tel.: +1 484 821 0984 Fax: +1 484 821 1272 E-mail: sales-us@mn-net.com