

ethylene-nitrogen (5:95)**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product name : ethylene-nitrogen (5:95)
Synonyms : ethylene/nitrogen, mixture (5:95); mixture of ethylene/nitrogen (5:95); mixture of nitrogen/ethylene (95:5); nitrogen/ethylene, mixture (95:5)
Registration number REACH : Not applicable (mixture)
Product type REACH : Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against**1.2.1 Relevant identified uses**

Industrial and professional use. Before use: carry out a risk assessment

1.2.2 Uses advised against

No uses advised against known

1.3. Details of the supplier of the safety data sheet**Supplier of the safety data sheet**

BALCHEM NV
Westvaardijk 85
B-1850 Grimbergen Belgium
☎ +32 2 251 60 87
📠 +32 2 252 17 51
info.grimbergen@balchem.com

Distributor of the product

BALCHEM NV
Westvaardijk 85
B-1850 Grimbergen Belgium
☎ +32 2 251 60 87
📠 +32 2 252 17 51
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1.4. Emergency telephone number

24h/24h (Telephone advice: English, French, German, Dutch):
+32 14 58 45 45 (BIG)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture**

Classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

Class	Category	Hazard statements
Press. Gas	Compressed gas	H280: Contains gas under pressure; may explode if heated.

2.2. Label elements

Signal word : Warning
H-statements
H280 : Contains gas under pressure; may explode if heated.
P-statements
P410 + P403 : Protect from sunlight. Store in a well-ventilated place.

2.3. Other hazards

Large spills/in enclosed spaces: risk of oxygen deficiency

SECTION 3: Composition/information on ingredients

ethylene-nitrogen (5:95)

3.1. Substances

Not applicable

3.2. Mixtures

Name REACH Registration No	CAS No EC No	Conc. (C)	Classification according to CLP	Note	Remark
nitrogen	7727-37-9 231-783-9	C=95 %	Press. Gas - Compressed gas; H280	(2)	Constituent
ethylene	74-85-1 200-815-3	C=5 %	Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280 STOT SE 3; H336	(1)(2)(10)	Constituent

(1) For H-statements in full: see heading 16

(2) Substance with a Community workplace exposure limit

(10) Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006

SECTION 4: First aid measures

4.1. Description of first aid measures

General:

Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

After inhalation:

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

After skin contact:

Not applicable.

After eye contact:

Not applicable.

After ingestion:

Not applicable.

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

4.2.1 Acute symptoms

After inhalation:

EXPOSURE TO HIGH CONCENTRATIONS: Feeling of weakness. Headache. Nausea. Coordination disorders. Cramps/uncontrolled muscular contractions. Respiratory difficulties. Disturbances of consciousness. Respiratory collapse.

After skin contact:

No effects known.

After eye contact:

No effects known.

After ingestion:

No effects known.

4.2.2 Delayed symptoms

No effects known.

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

If applicable and available it will be listed below.

SECTION 5: Firefighting measures

5.1. Extinguishing media

5.1.1 Suitable extinguishing media:

Adapt extinguishing media to the environment.

5.1.2 Unsuitable extinguishing media:

No unsuitable extinguishing media known.

5.2. Special hazards arising from the substance or mixture

5.3. Advice for firefighters

5.3.1 Instructions:

Cool tanks/drums with water spray/remove them into safety. Physical explosion risk: cool from behind cover. Do not move the load if exposed to heat. After cooling: persistent risk of physical explosion.

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5.3.2 Special protective equipment for fire-fighters:

Insulating gloves. Protective clothing. Large spills/in enclosed spaces: compressed air apparatus. Heat/fire exposure: compressed air/oxygen apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep upwind. Close doors and windows of adjacent premises. No naked flames. Large spills/in confined spaces: consider evacuation.

6.1.1 Protective equipment for non-emergency personnel

See heading 8.2

6.1.2 Protective equipment for emergency responders

Insulating gloves. Protective clothing. Large spills/in enclosed spaces: compressed air apparatus.

Suitable protective clothing

See heading 8.2

6.2. Environmental precautions

Contain released substance, pump into suitable containers. Plug the leak, cut off the supply.

6.3. Methods and material for containment and cleaning up

Damaged/cooled tanks must be emptied.

6.4. Reference to other sections

See heading 13.

SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

7.1. Precautions for safe handling

Keep away from naked flames/heat. Observe normal hygiene standards.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1 Safe storage requirements:

Storage temperature: <50 °C. Meet the legal requirements.

7.2.2 Keep away from:

Heat sources.

7.2.3 Suitable packaging material:

No data available

7.2.4 Non suitable packaging material:

No data available

7.3. Specific end use(s)

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 Occupational exposure

a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

The Netherlands

Ethyleen	Time-weighted average exposure limit 8 h (Private occupational exposure limit value)	283 ppm
	Time-weighted average exposure limit 8 h (Private occupational exposure limit value)	330 mg/m ³
	Short time value (Private occupational exposure limit value)	1029 ppm
	Short time value (Private occupational exposure limit value)	1200 mg/m ³

Belgium

Ethylène	Time-weighted average exposure limit 8 h	200 ppm (A)
	Time-weighted average exposure limit 8 h	233 mg/m ³ (A)

La mention "A" signifie que l'agent libère un gaz ou une vapeur qui n'ont en eux-mêmes aucun effet physiologique mais peuvent diminuer le taux d'oxygène dans l'air. Lorsque le taux d'oxygène descend en dessous de 17-18 % (vol/vol) le manque d'oxygène provoque des suffocations qu'aucun symptôme préalable n'annonce

USA (TLV-ACGIH)

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Ethylene	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	200 ppm
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b) National biological limit values

If limit values are applicable and available these will be listed below.

8.1.2 Sampling methods

If applicable and available it will be listed below.

8.1.3 Applicable limit values when using the substance or mixture as intended

If limit values are applicable and available these will be listed below.

8.1.4 DNEL/PNEC values

PNEC

ethylene

Compartments	Value	Remark
	Not applicable	

8.1.5 Control banding

If applicable and available it will be listed below.

8.2. Exposure controls

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

8.2.1 Appropriate engineering controls

Keep away from naked flames/heat. Measure the oxygen concentration in the air. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

8.2.2 Individual protection measures, such as personal protective equipment

Observe normal hygiene standards. Do not eat, drink or smoke during work.

a) Respiratory protection:

High vapour/gas concentration: self-contained respirator.

b) Hand protection:

Insulated gloves.

c) Eye protection:

Eye protection not required in normal conditions.

d) Skin protection:

Protective clothing.

8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical form	Gas
Odour	Odourless
Odour threshold	Not applicable
Colour	Colourless
Particle size	Not applicable (gas)
Explosion limits	Not applicable
Flammability	Non-flammable
Log Kow	Not applicable (mixture)
Dynamic viscosity	No data available
Kinematic viscosity	No data available
Melting point	No data available
Boiling point	No data available
Flash point	Not applicable
Evaporation rate	No data available
Relative vapour density	1.0
Vapour pressure	No data available
Solubility	No data available
Relative density	No data available
Decomposition temperature	No data available
Auto-ignition temperature	Not applicable
Explosive properties	No chemical group associated with explosive properties
Oxidising properties	No chemical group associated with oxidising properties
pH	No data available

9.2. Other information

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No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Keep away from naked flames/heat.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

No data available.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

11.1.1 Test results

Acute toxicity

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No (test)data on the mixture available

ethylene

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral						Not relevant, expert judgement	
Dermal						Not relevant, expert judgement	
Inhalation	LC50	Equivalent to OECD 403	> 57000 ppm	4 h	Rat (male)	Experimental value	

Judgement is based on the relevant ingredients

Conclusion

Not classified for acute toxicity

Corrosion/irritation

ethylene-nitrogen (5:95)

No (test)data on the mixture available

ethylene

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Not relevant, expert judgement						
Skin	Not relevant, expert judgement						

Judgement is based on the relevant ingredients

Conclusion

Not classified as irritating to the skin

Not classified as irritating to the eyes

Not classified as irritating to the respiratory system

Respiratory or skin sensitisation

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ethylene

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Not relevant, expert judgement						
Inhalation	Not relevant, expert judgement						

Judgement is based on the relevant ingredients

Conclusion

Not classified as sensitizing for skin

Not classified as sensitizing for inhalation

Specific target organ toxicity

ethylene-nitrogen (5:95)

No (test)data on the mixture available

ethylene

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral								Not relevant, expert judgement
Inhalation	NOAEC	OECD 413	10000 ppm		No effect	13 weeks (daily, 5 days/week)	Rat (male/female)	Experimental value

Judgement is based on the relevant ingredients

Conclusion

Not classified for subchronic toxicity

Mutagenicity (in vitro)

ethylene-nitrogen (5:95)

No (test)data on the mixture available

ethylene

Result	Method	Test substrate	Effect	Value determination
Negative	OECD 471	Bacteria (S.typhimurium)		Experimental value
Negative	OECD 473	Chinese hamster ovary (CHO)		Experimental value

Mutagenicity (in vivo)

ethylene-nitrogen (5:95)

No (test)data on the mixture available

ethylene

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative	Equivalent to OECD 474		Rat (male/female)		Experimental value
Negative	OECD 474		Rat (male)		Experimental value

Carcinogenicity

ethylene-nitrogen (5:95)

No (test)data on the mixture available

ethylene

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Organ	Effect
Inhalation	NOAEC	Equivalent to OECD 453	3445 mg/m ³ air	106 weeks (daily, 5 days/week)	Rat (male/female)	Experimental value		No effect

Reproductive toxicity

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No (test)data on the mixture available

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	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEC	OECD 421	5737 mg/m ³ air	28 days (gestation, daily)	Rat (male/female)	No effect		Experimental value
Effects on fertility	NOAEC (P)	OECD 421	5000 ppm	28 day(s)	Rat (male/female)	No effect		Experimental value

Judgement is based on the relevant ingredients

Conclusion CMR

Not classified for carcinogenicity

Not classified for mutagenic or genotoxic toxicity

Not classified for reprotoxic or developmental toxicity

Toxicity other effects

ethylene-nitrogen (5:95)

No (test)data on the mixture available

Chronic effects from short and long-term exposure

ethylene-nitrogen (5:95)

No effects known.

SECTION 12: Ecological information

12.1. Toxicity

ethylene-nitrogen (5:95)

No (test)data on the mixture available

ethylene

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	ECOSAR	126.012 mg/l	96 h			Fresh water	QSAR
Acute toxicity invertebrates	LC50	ECOSAR	62.482 mg/l	48 h	Daphnia sp.		Fresh water	QSAR
Toxicity algae and other aquatic plants	EC50	ECOSAR	30.327 mg/l	96 h	Algae		Fresh water	QSAR
	EC50	OECD 201	40.5 mg/l	72 h	Pseudokirchneriella subcapitata	Static system	Fresh water	Experimental value
Long-term toxicity fish	ChV	ECOSAR	12.385 mg/l	30 day(s)			Fresh water	QSAR
Long-term toxicity aquatic invertebrates	ChV	ECOSAR	6.311 mg/l		Daphnia sp.		Fresh water	QSAR

	Parameter	Method	Value	Duration	Species	Value determination
Toxicity soil macro-organisms	LC50	ECOSAR	60.037 mg/l	14 day(s)	Annelida	QSAR
Toxicity terrestrial plants	NOEC	Other	< 10 ppm	16 week(s)	Solanum tuberosum L.	Experimental value
	EC50	Other	0.1 ppm	4 h	Phaseolus vulgaris	Experimental value

Judgement of the mixture is based on the relevant ingredients

Conclusion

Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008

12.2. Persistence and degradability

ethylene-nitrogen (5:95)

Half-life soil (t1/2 soil)

Method	Value	Primary degradation/mineralisation	Value determination
Not applicable			

nitrogen

Half-life soil (t1/2 soil)

Method	Value	Primary degradation/mineralisation	Value determination
Not applicable			

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ethylene

Biodegradation water

Method	Value	Duration	Value determination
	50 %	2.9 day(s)	QSAR

Half-life soil (t1/2 soil)

Method	Value	Primary degradation/mineralisation	Value determination
Not applicable			

Conclusion

Contains readily biodegradable component(s)

12.3. Bioaccumulative potential

ethylene-nitrogen (5:95)

Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

nitrogen

Log Kow

Method	Remark	Value	Temperature	Value determination
		0.67		Experimental value

ethylene

Log Kow

Method	Remark	Value	Temperature	Value determination
		1.13	20 °C	

Conclusion

Does not contain bioaccumulative component(s)

12.4. Mobility in soil

Not applicable (gas)

12.5. Results of PBT and vPvB assessment

Does not contain component(s) that meet(s) the criteria of PBT and/or vPvB as listed in Annex XIII of Regulation (EC) No 1907/2006.

12.6. Other adverse effects

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Global warming potential (GWP)

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EC) No 517/2014)

Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

13.1. Waste treatment methods

13.1.1 Provisions relating to waste

Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).

16 05 05 (gases in pressure containers and discarded chemicals: gases in pressure containers other than those mentioned in 16 05 04). Depending on branch of industry and production process, also other waste codes may be applicable. Can be considered as non-hazardous waste according to Regulation (EU) No 1357/2014.

13.1.2 Disposal methods

Refer to manufacturer/supplier for information on recovery/ recycling. Remove waste in accordance with local and/or national regulations.

13.1.3 Packaging/Container

Waste material code packaging (Directive 2008/98/EC).

15 01 04 (metallic packaging).

SECTION 14: Transport information

Road (ADR)

14.1. UN number

UN number	1956
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14.2. UN proper shipping name

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Proper shipping name	Compressed gas, n.o.s. (nitrogen)
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14.3. Transport hazard class(es)

Hazard identification number	20
Class	2
Classification code	1A

14.4. Packing group

Packing group	
Labels	2.2

14.5. Environmental hazards

Environmentally hazardous substance mark	no
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14.6. Special precautions for user

Special provisions	274
Special provisions	655
Special provisions	662
Limited quantities	Combination packagings: not more than 120 ml per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)

Rail (RID)

14.1. UN number

UN number	1956
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14.2. UN proper shipping name

Proper shipping name	Compressed gas, n.o.s. (nitrogen)
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14.3. Transport hazard class(es)

Hazard identification number	20
Class	2
Classification code	1A

14.4. Packing group

Packing group	
Labels	2.2 (+13)

14.5. Environmental hazards

Environmentally hazardous substance mark	no
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14.6. Special precautions for user

Special provisions	274
Special provisions	655
Special provisions	662
Limited quantities	Combination packagings: not more than 120 ml per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)

Inland waterways (ADN)

14.1. UN number

UN number	1956
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14.2. UN proper shipping name

Proper shipping name	Compressed gas, n.o.s. (nitrogen)
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14.3. Transport hazard class(es)

Class	2
Classification code	1A

14.4. Packing group

Packing group	
Labels	2.2

14.5. Environmental hazards

Environmentally hazardous substance mark	no
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14.6. Special precautions for user

Special provisions	274
Special provisions	655
Special provisions	662
Limited quantities	Combination packagings: not more than 120 ml per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)

Sea (IMDG/IMSBC)

14.1. UN number

UN number	1956
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14.2. UN proper shipping name

Proper shipping name	Compressed gas, n.o.s. (nitrogen)
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14.3. Transport hazard class(es)

Class	2.2
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14.4. Packing group

Packing group	
Labels	2.2

14.5. Environmental hazards

Marine pollutant	-
Environmentally hazardous substance mark	no

14.6. Special precautions for user

Special provisions	274
Limited quantities	Combination packagings: not more than 120 ml per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Annex II of MARPOL 73/78	Not applicable
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Air (ICAO-TI/IATA-DGR)

14.1. UN number

UN number	1956
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14.2. UN proper shipping name

Proper shipping name	Compressed gas, n.o.s. (nitrogen)
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14.3. Transport hazard class(es)

Class	2.2
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14.4. Packing group

Packing group	
Labels	2.2

14.5. Environmental hazards

Environmentally hazardous substance mark	no
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14.6. Special precautions for user

Special provisions	
Passenger and cargo transport: limited quantities: maximum net quantity per packaging	Forbidden

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

European legislation:

VOC content Directive 2010/75/EU

VOC content	Remark
4 %	

Plant protection products - listed ingredient

Contains component(s) included in implementing Regulation (EU) No 540/2011

REACH Annex XVII - Restriction

Contains component(s) subject to restrictions of Annex XVII of Regulation (EC) No 1907/2006: restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

	Designation of the substance, of the group of substances or of the mixture	Conditions of restriction
ethylene	Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to that Regulation or not.	1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following: — metallic glitter intended mainly for decoration, — artificial snow and frost, — “whoopee” cushions, — silly string aerosols, — imitation excrement, — horns for parties, — decorative flakes and foams, — artificial cobwebs, — stink bombs. 2. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with: “For professional users only”. 3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/ 324/EEC. 4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.

National legislation The Netherlands

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Waste identification (the Netherlands)	LWCA (the Netherlands): KGA category 06
Waterbezwaarlijkheid	Insufficient data available

National legislation Germany

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WGK	-; Classification non-water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 4)
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ethylene

TRGS905 - Krebserzeugend	-
TRGS905 - Erbgutverändernd	3
TRGS905 - Fruchtbarkeitsgefährdend	-
TRGS905 - Fruchtschädigend	-
MAK - Krebserzeugend Kategorie	3B
TA-Luft	5.2.5; I 5.2.5

National legislation France

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No data available

National legislation Belgium

ethylene-nitrogen (5:95)

No data available

Other relevant data

ethylene-nitrogen (5:95)

No data available

ethylene

IARC - classification	3; Ethylene
TLV - Carcinogen	Ethylene; A4

15.2. Chemical safety assessment

No chemical safety assessment is required.

SECTION 16: Other information

Full text of any H-statements referred to under headings 2 and 3:

H220 Extremely flammable gas.

H280 Contains gas under pressure; may explode if heated.

H336 May cause drowsiness or dizziness.

(*) = INTERNAL CLASSIFICATION BY BIG

PBT-substances = persistent, bioaccumulative and toxic substances

CLP (EU-GHS) Classification, labelling and packaging (Globally Harmonised System in Europe)

The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Old versions must be destroyed. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided and cannot be held liable for any changes by third parties. This safety data sheet is only to be used within the European Union, Switzerland, Iceland, Norway and Liechtenstein. Any use outside of this area is at your own risk. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement or when this is failing the general conditions of BIG. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult the mentioned agreement/conditions for details.

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