20.03.2022	Kit Components
Product code	Description
CY80HA-R2+ST	CA80HA Reagent Set
Components:	
71385788	CA80HA Reagent RK, Component 1
71385789	CA80HA Reagent RK, Component 2

Hauser 🚻 Page 1/8

Printing date 20.03.2022 Version 14 (replaces version 13)

Revision: 20.03.2022

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

Product identifier

Trade name: CA80HA Reagent RK, Component 1

Article number: 71385788

Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

Application of the substance / the mixture Laboratory chemicals

Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Endress+Hauser Conducta GmbH+Co. KG Dieselstraße 24 D-70839 Gerlingen

Further information obtainable from:

Phone: +49 (0)7156 209-10117 E-Mail: MSDS.PCC @endress.com

Emergency telephone number: 00971 800 424 (from 7 am to 3 pm, from Sunday to Thursday)

SECTION 2: Hazards identification

Classification of the substance or mixture



Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Label elements

GHS label elements

The product is classified and labelled according to the Globally Harmonised System (GHS).

Hazard pictograms



GHS07

Signal word Warning

Hazard statements

Causes skin irritation.

Causes serious eye irritation.

Precautionary statements

Wear protective gloves / eye protection / face protection.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

If eye irritation persists: Get medical advice/attention.

Additional information:

Contains reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1). May produce an allergic reaction.

Other hazards

The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.

(Contd. on page 2)

Printing date 20.03.2022 Version 14 (replaces version 13) Revision: 20.03.2022

Trade name: CA80HA Reagent RK, Component 1

(Contd. of page 1)

Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

Miyturas

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:		
CAS: 115-69-5	2-Amino-2-methylpropane-1,3-diol	10-20%
EINECS: 204-100-7	Met. Corr.1, H290;	
CAS: 55965-84-9	reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) Acute Tox. 3, H301; Acute Tox. 2, H310; Acute Tox. 2, H330; Skin Corr. 1C, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=100); Skin Sens. 1A, H317 Specific concentration limits: Skin Corr. 1C; H314: C ≥ 0.6 % Skin Irrit. 2; H315: 0.06 % ≤ C < 0.6 % Eye Dam. 1; H318: C ≥ 0.6 % Skin Sens. 1A; H317: C ≥ 0.0015 %	≤1%

Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

Description of first aid measures

General information: Immediately remove any clothing soiled by the product.

After inhalation: In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

Immediately rinse with water.

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing: If symptoms persist consult doctor.

Most important symptoms and effects, both acute and delayed

No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

For safety reasons unsuitable extinguishing agents: no further information

Special hazards arising from the substance or mixture No further relevant information available.

Advice for firefighters No further relevant information available.

Protective equipment: No special measures required.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures Wear protective clothing. Environmental precautions: Do not allow to enter sewers/ surface or ground water.

(Contd. on page 3)

according to 1907/2006/EC, Article 31

Printing date 20.03.2022 Version 14 (replaces version 13) Revision: 20.03.2022

Trade name: CA80HA Reagent RK, Component 1

(Contd. of page 2)

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

Precautions for safe handling *No special precautions are necessary if used correctly.*Information about fire - and explosion protection: *No special measures required.*

Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required. Further information about storage conditions: Keep container tightly sealed.

Storage class: 8 B

Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

Control parameters

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: The lists valid during the making were used as basis.

Exposure controls

Appropriate engineering controls No further data; see item 7.

Individual protection measures, such as personal protective equipment

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Respiratory protection: Not required.

Hand protection



Protective gloves

To avoid skin problems reduce the wearing of gloves to the required minimum.

Only use chemical-protective gloves with CE-labelling of category III.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Material of gloves

Nitrile rubber, NBR

Natural rubber, NR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

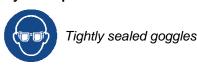
(Contd. on page 4)

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Trade name: CA80HA Reagent RK, Component 1

(Contd. of page 3)

Eye/face protection



Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

General Information

Physical stateFluidColour:ColourlessOdour:OdourlessOdour threshold:Not determined.Melting point/freezing point:Undetermined.

Boiling point or initial boiling point and boiling

range 100 °C

Flammability Not applicable.

Lower and upper explosion limit

Lower:Not determined.Upper:Not determined.Flash point:Not applicable.Decomposition temperature:Not determined.

pH at 20 °C 7.5-9.5

Viscosity:

Kinematic viscosity Dynamic:Not determined.
Not determined.

Solubility

water: Not miscible or difficult to mix.

Partition coefficient n-octanol/water (log value) Not determined.

Vapour pressure at 20 °C: 23 hPa

Density and/or relative density

Density:Not determined.Relative densityNot determined.Vapour densityNot determined.

Other information Appearance:

Form: Fluid

Important information on protection of health

and environment, and on safety.

Auto-ignition temperature: Product is not selfigniting.

Explosive properties: Product does not present an explosion hazard.

Not determined.

Solvent content:

Water: 87.9 % **Solids content:** 0.0 %

Change in condition

Evaporation rate Not determined.

Information with regard to physical hazard

classes

Explosives Void
Flammable gases Void
Aerosols Void
Oxidising gases Void
Gases under pressure Void

(Contd. on page 5)

Printing date 20.03.2022 Version 14 (replaces version 13) Revision: 20.03.2022

Trade name: CA80HA Reagent RK, Component 1

Flammable liquids
Flammable solids
Void
Self-reactive substances and mixtures
Void
Pyrophoric liquids
Void
Pyrophoric solids
Void
Void
Void

Self-heating substances and mixtures
Substances and mixtures, which emit flammable
gases in contact with water
Void
Oxidising liquids
Void
Oxidising solids
Void
Organic peroxides
Void
Corrosive to metals
Void
Desensitised explosives

SECTION 10: Stability and reactivity

Reactivity No further relevant information available.

Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

Possibility of hazardous reactions No dangerous reactions known.

Conditions to avoid No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

Information on hazard classes as defined in Regulation (EC) No 1272/2008 Acute toxicity

LD/LC50 values relevant for classification:

CAS: 115-69-5 2-Amino-2-methylpropane-1,3-diol

Oral LD50 140 mg/kg (Mouse)

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation Causes serious eye irritation.

Information on other hazards

Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability No further relevant information available.

Bioaccumulative potential No further relevant information available.

Mobility in soil No further relevant information available.

Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

Other adverse effects

Additional ecological information:

General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

(Contd. on page 6)

Printing date 20.03.2022 Version 14 (replaces version 13) Revision: 20.03.2022

Trade name: CA80HA Reagent RK, Component 1

(Contd. of page 5)

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

Waste treatment methods

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

UN number or ID number

IMDG, IATA UN1760

UN proper shipping name

ADR UN1760 CORROSIVE LIQUID, N.O.S. (2-Amino-2-

methylpropane-1,3-diol)

IMDG CORROSIVE LIQUID, N.O.S. (2-Amino-2-methylpropane-

1,3-diol)

IATA Corrosive liquid, n.o.s. (containing 2-Amino-2-

methylpropane-1,3-diol)

Transport hazard class(es)

ADR



Class 8 (C9) Corrosive substances.

Label 8

IMDG, IATA



Class 8 Corrosive substances.

Label 8

Packing group

ADR, IMDG, IATA ///

Environmental hazards: Not applicable.

Special precautions for user Warning: Corrosive substances.

Hazard identification number (Kemler code): 80
EMS Number: F-A,S-B
Segregation groups Alkalis
Stowage Category A

Stowage Code SW2 Clear of living quarters.

Maritime transport in bulk according to IMO

instruments Not applicable.

Transport/Additional information:

ADR

Limited quantities (LQ) 5L Transport category 3 Tunnel restriction code E

(Contd. on page 7)

according to 1907/2006/EC, Article 31

Printing date 20.03.2022 Version 14 (replaces version 13) Revision: 20.03.2022

Trade name: CA80HA Reagent RK, Component 1

(Contd. of page 6)

IMDG

Limited quantities (LQ) 5L

Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

UN "Model Regulation": UN 1760 CORROSIVE LIQUID, N.O.S. (2-AMINO-2-

METHYLPROPANE-1,3-DIOL), 8, III

SECTION 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements

The product is classified and labelled according to the Globally Harmonised System (GHS).

Hazard pictograms



Signal word Warning

Hazard statements

Causes skin irritation.

Causes serious eye irritation.

Precautionary statements

Wear protective gloves / eye protection / face protection.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

If eye irritation persists: Get medical advice/attention.

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

National regulations:

Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing SDS: PCC-TWR **Contact:** MSDS.pcc@endress.com **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the

International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Met. Corr.1: Corrosive to metals - Category 1

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 2: Acute toxicity – Category 2

Skin Corr. 1C: Skin corrosion/irritation – Category 1C Skin Irrit. 2: Skin corrosion/irritation – Category 2

(Contd. on page 8)

according to 1907/2006/EC, Article 31

Printing date 20.03.2022 Version 14 (replaces version 13) Revision: 20.03.2022

Trade name: CA80HA Reagent RK, Component 1

(Contd. of page 7)

Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1A: Skin sensitisation – Category 1A
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1

UAE -

^{*} Data compared to the previous version altered.

Printing date 20.03.2022

according to 1907/2006/EC, Article 31

Endress+Hauser 🖽

People for Process Automation

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Revision: 18.03.2022

Version 4 (replaces version 3)

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

Product identifier

Trade name: CA80HA Reagent RK, Component 2

Article number: 71385789

Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

Application of the substance / the mixture Laboratory chemicals

Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Endress+Hauser Conducta GmbH+Co. KG Dieselstraße 24 D-70839 Gerlingen

Further information obtainable from:

Phone: +49 (0)7156 209-10117 E-Mail: MSDS.PCC @endress.com

Emergency telephone number: 00971 800 424 (from 7 am to 3 pm, from Sunday to Thursday)

SECTION 2: Hazards identification

Classification of the substance or mixture

The product is not classified, according to the Globally Harmonised System (GHS).

Label elements

GHS label elements Void Hazard pictograms Void

Signal word Void

Hazard statements Void

Other hazards

The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.

Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

Mixtures

Description: Mixture of non-hazardous substances

Dangerous components: Void

Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

Description of first aid measures

General information: No special measures required.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Generally the product does not irritate the skin.

After eye contact: Rinse opened eye for several minutes under running water.

After swallowing: If symptoms persist consult doctor.

Most important symptoms and effects, both acute and delayed

No further relevant information available.

(Contd. on page 2)

according to 1907/2006/EC, Article 31

Printing date 20.03.2022 Version 4 (replaces version 3) Revision: 18.03.2022

Trade name: CA80HA Reagent RK, Component 2

(Contd. of page 1)

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

For safety reasons unsuitable extinguishing agents: no further information

Special hazards arising from the substance or mixture No further relevant information available.

Advice for firefighters No further relevant information available.

Protective equipment: No special measures required.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures Wear protective clothing.

Environmental precautions: Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up: Pick up mechanically.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

Precautions for safe handling No special measures required.

Information about fire - and explosion protection: No special measures required.

Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: None.

Storage class: 11

Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

Control parameters

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: The lists valid during the making were used as basis.

Exposure controls

Appropriate engineering controls No further data; see item 7.

Individual protection measures, such as personal protective equipment

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Respiratory protection: Not required.

Hand protection No chemical-protective gloves required.

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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Trade name: CA80HA Reagent RK, Component 2

(Contd. of page 2)

Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye/face protection Not required.

Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

General Information

Physical state Solid
Colour: White
Odour: Odourless
Odour threshold: Not determined.
Melting point/freezing point: Undetermined.

Boiling point or initial boiling point and boiling

range 100 °C

Flammability Not determined.

Lower and upper explosion limit

Lower:Not determined.Upper:Not determined.Flash point:Not applicable.Decomposition temperature:Not determined.pHNot applicable.

Viscosity:

Kinematic viscosity

Not applicable.

Not applicable.

Solubility

water: Insoluble.

Partition coefficient n-octanol/water (log value) Not determined.

Vapour pressure: Not applicable.

Density and/or relative density

Density:Not determined.Relative densityNot determined.Vapour densityNot applicable.

Other information Appearance:

Form: Solid

Important information on protection of health

and environment, and on safety.

Auto-ignition temperature: Product is not selfigniting.

Explosive properties: Product does not present an explosion hazard.

Not determined.

Solvent content:

Solids content: 100.0 %

Change in condition

Evaporation rate Not applicable.

Information with regard to physical hazard

classes

Explosives Void
Flammable gases Void
Aerosols Void
Oxidising gases Void
Gases under pressure Void
Flammable liquids Void
Flammable solids Void

(Contd. on page 4)

Printing date 20.03.2022 Version 4 (replaces version 3) Revision: 18.03.2022

Trade name: CA80HA Reagent RK, Component 2

(Contd. of page 3)

Self-reactive substances and mixtures Void **Pyrophoric liquids** Void **Pyrophoric solids** Void Self-heating substances and mixtures Void Substances and mixtures, which emit flammable gases in contact with water Void **Oxidising liquids** Void **Oxidising solids** Void Organic peroxides Void Corrosive to metals Void **Desensitised explosives** Void

SECTION 10: Stability and reactivity

Reactivity No further relevant information available.

Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

Possibility of hazardous reactions No dangerous reactions known.

Conditions to avoid No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

Information on other hazards

Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability No further relevant information available.

Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

Other adverse effects

Additional ecological information:

General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

Waste treatment methods

Recommendation Smaller quantities can be disposed of with household waste.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

(Contd. on page 5)

according to 1907/2006/EC, Article 31

Printing date 20.03.2022 Version 4 (replaces version 3) Revision: 18.03.2022

Trade name: CA80HA Reagent RK, Component 2

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SECTION 14: Transport information

UN number or ID number

ADN, IMDG, IATA Void

UN proper shipping name

ADR, ADN, IMDG, IATA Void

Transport hazard class(es)

ADR, ADN, IMDG, IATA

Class

Packing group

ADR, IMDG, IATA Void

Environmental hazards:

Marine pollutant: No

Special precautions for user Not applicable.

Maritime transport in bulk according to IMO

instruments Not applicable.

Transport/Additional information: Not dangerous according to the above specifications.

UN "Model Regulation": Voice

SECTION 15: Regulatory information

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

GHS label elements Void Hazard pictograms Void

Signal word Void

Hazard statements Void

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

National regulations:

Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing SDS: *PCC-TWR* **Contact:** *MSDS.pcc* @*endress.com* **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the

International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

* Data compared to the previous version altered.

UAE -