

Safety Data Sheet

according to Regulation (EC) No. 453/2010



Vico Liquid | 10 - 10 - 10 + TE

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

1.1. Product identifier

Product form : Mixture

Trade name : Vico Liquid | 10 - 10 - 10 + TE

EC-FERTILISER : C.2.1

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

1.2.1. Relevant identified uses

Main use category : Industrial use

Professional use

Use of the substance/mixture : fertilizers

1.3. Details of the supplier of the safety data sheet

Van Iperen International BV

Smidsweg 24

3273 LK Westmaas - Nederland

T +31 (0) 186 578 888 - F +31 (0) 186 573 452

info@iperen.com - www.vaniperen.com

1.4. Emergency telephone number

Country	Official advisory body	Address	Emergency number
Netherlands	Nationaal Vergiftigingen Informatie Centrum National Institute for Public Health and the Environment, NB this service is only available to health professionals	Huispostnummer B.00.118, PO Box 85500 3508 GA Utrecht	+31 30 274 88 88

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP].

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH annex II

SECTION 4: First aid measures

4.1. Description of first aid measures

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

First-aid measures after inhalation :

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

First-aid measures after skin contact :

Wash immediately with lots of water. Soap may be used. If skin irritation persists, take medical advice.

First-aid measures after eye contact :

Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist if irritation persists.

First-aid measures after ingestion :

Rinse mouth with water. Do not induce vomiting. If victim conscious and alert, give 1-2 glasses of water to drink. Consult a doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to hospital.

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

Symptoms/injuries after inhalation : None under normal use
Symptoms/injuries after skin contact : Contact during a long period may cause slight irritation.
Symptoms/injuries after eye contact : Irritation of the eye tissue.
Symptoms/injuries after ingestion : Nausea. Vomiting. Diarrhoea. After absorption of high quantities: Disturbances of heart rate. Respiratory difficulties.
Chronic symptoms : On continuous/repeated exposure/contact: gastrointestinal complaints. affection of the renal tissue. disturbed tactile sensibility. paralysis.

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

Treat symptomatically. Follow the advices in chapter 4.1.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Extinguishing media for surrounding fires : All extinguishing media allowed. Use fire extinguishing methods suitable to surrounding conditions.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Direct fire hazard: Non combustible.
Explosion hazard : Not applicable.
Reactivity in case of fire : Reacts violently with (some) acids. And with (some) bases

5.3. Advice for firefighters

Precautionary measures fire : Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: have neighbourhood close doors and windows.
Protection during firefighting : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for firefighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Ensure adequate air ventilation.

6.1.1. For non-emergency personnel

Protective equipment : Wear protective gloves/protective clothing/eye protection as advised in section 8. Do not touch or walk through spilt material.

Emergency procedures : Evacuate the danger area. Notify experts. No action shall be taken involving any personal risk or without suitable training. Mark the danger area. Corrosion-proof appliances. Wash contaminated clothes.

6.1.2. For emergency responders

Protective equipment : Wear protective gloves/protective clothing/eye protection as advised in section 8. Reactivity hazard: compressed air/oxygen apparatus.

6.2. Environmental precautions

Prevent soil and water pollution. Prevent spreading in sewers. If the product enters drains or sewers the local water company should be contacted immediately; in the case of contamination of streams, rivers or lakes, the National Rivers Authority.

6.3. Methods and material for containment and cleaning up

For containment : Stop leak if safe to do so. Dam up the liquid spill. Any spillage should be cleaned up immediately.
Methods for cleaning up : Large amounts: transfer the product in suitable packing with correct labels. Take up rest of liquid spill into absorbent material sand, earth, vermiculite. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Scoop absorbed substance into closing containers. After cleaning, flush traces away with water. Wash clothing and equipment after handling.

6.4. Reference to other sections

See section 1 for emergency contact information. See section 8 for information on appropriate personal protective equipment. See section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Use sufficient ventilation. Wear protective gloves/protective clothing/eye protection as advised in section 8. Meet the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Keep container tightly closed. Care for eyewashstations and security showers at the workplace.
Hygiene measures : Do not eat, drink or smoke during use. Always wash hands after handling the product.

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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep preferably in the original container.
Storage temperature : 0 - 30 °C
Heat and ignition sources : Keep substance away from: heat sources.
Storage area : Keep container in a well-ventilated place. Keep out of direct sunlight. Meets the legal requirements.
Special rules on packaging : Meets the legal requirements, correctly labelled. Secure fragile packagings in solid containers. Keep packaging closed when not in use.
Packaging materials : Suitable material: Stainless steel, synthetic material.

7.3. Specific end use(s)

Fertilizers.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Borax (1303-96-4)	
DNEL/DMEL (Workers)	
Acute - local effects, inhalation	11,7 mg/m ³
Long-term - systemic effects, dermal	316,4 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	6,7 mg/m ³
Long-term - local effects, inhalation	11,7 mg/m ³
DNEL/DMEL (General population)	
Acute - systemic effects, oral	0,79 mg/kg bodyweight
Acute - local effects, inhalation	11,7 mg/m ³
Long-term - systemic effects, oral	0,79 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	3,4 mg/m ³
Long-term - systemic effects, dermal	159,5 mg/kg bodyweight/day
Long-term - local effects, inhalation	11,7 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	1,35 mg/l
PNEC aqua (marine water)	1,35 mg/l
PNEC aqua (intermittent, freshwater)	9,1 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	1,8 mg/kg dwt
PNEC sediment (marine water)	1,8 mg/kg dwt
PNEC (Soil)	
PNEC soil	5,4 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	1,75 mg/l

8.2. Exposure controls

Appropriate engineering controls : No particular/specific measures required.



Personal protective equipment :

Hand protection : Gloves.
Material selection gloves : Good resistance gives: butyl rubber, Nitrile rubber, PVC. Take advice to your gloves' supplier
Eye protection : Safety glasses.
Skin and body protection : Wear suitable protective clothing.
Respiratory protection : No personal breathing protective equipment is normally required. Ensure adequate air ventilation.
Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with legislation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Liquid.
Colour : Green.
Odour : Characteristic.
pH : 6,5 (6 - 7)
Crystallization temperature : -7 °C
Vapour pressure : +/- 2300 Pa (as water)
Density : 1,27 kg/l
Solubility : Water: complete
Explosive properties : Not explosive.
Oxidising properties : Not oxidising.

9.2. Other information

No additional information available

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SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts violently with (some) acids. and with (some) bases.

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

This product can react with strong reducing or oxidizing agents.

10.4. Conditions to avoid

Avoid high temperatures. Keep out of frost.

10.5. Incompatible materials

May be corrosive to some metals. Keep substance away from: strong acids, strong bases and oxidation agents. reducing agents. halogens.

10.6. Hazardous decomposition products

On heating/burning: release of toxic and corrosive gases/vapours (nitrous vapours, phosphorus oxides, potassium oxides).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity :	Not classified	Based on available data, the classification criteria are not met
Skin corrosion/irritation :	Not classified	Based on available data, the classification criteria are not met
Serious eye damage/irritation :	Not classified	Based on available data, the classification criteria are not met
Respiratory or skin sensitisation :	Not classified	Based on available data, the classification criteria are not met
Germ cell mutagenicity :	Not classified	Based on available data, the classification criteria are not met
Carcinogenicity :	Not classified	Based on available data, the classification criteria are not met
Reproductive toxicity :	Not classified	Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure) :	Not classified	Based on available data, the classification criteria are not met
Specific target organ toxicity (repeated exposure):	Not classified	Based on available data, the classification criteria are not met
Aspiration hazard :	Not classified	Based on available data, the classification criteria are not met

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general :	Classification concerning the environment: not applicable.
Ecology - water :	Mild water pollutant (surface water). May cause eutrophication

12.2. Persistence and degradability

NPK 10-10-10+TE

Persistence and degradability	In accordance with column 2 of REACH Annex VII, the ready biodegradability test does not need to be conducted as the substance is inorganic.
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12.3. Bioaccumulative potential

NPK 10-10-10+TE

Bioaccumulative potential	No bioaccumulation data available.
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12.4. Mobility in soil

NPK 10-10-10+TE

Ecology - soil	Soluble in water.
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12.5. Results of PBT and vPvB assessment

NPK 10-10-10+TE

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

European List of Waste (LoW) code :	06 03 14 - solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13 <i>Depending on branch of industry and production process, also other EURAL codes may be applicable</i>
Regional legislation (waste) :	Disposal must be done according to official regulations.
Waste treatment methods :	Do not discharge into drains or rivers. Dispose the product, depending on the degree and type of contamination, either as fertilizer or in an authorized waste disposal site.
Waste disposal recommendations :	Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Remove waste in accordance with local and/or national regulations.
Additional information :	Non hazardous waste.

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SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

No dangerous good in sense of transport regulations

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport

No additional information available

14.6.2. Transport by sea

No additional information available

14.6.3. Air transport

No additional information available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions.

Contains REACH Candidate List substance(s): Disodium tetraborate, anhydrous (EC 215-540-4, CAS 1303-96-4)

15.1.2. National regulations

Waterbezwaarlijkheid (NL) : 11 - Weinig schadelijk voor in het water levende organismen

15.2. Chemical safety assessment

SECTION 16: Other information

Version : 1.0

Revision date : 02-05-2014

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Data sources : ECHA Website: Information on Registered Substances

Handbook of Chemistry and Physics CRC Press Inc

Information from suppliers

BIG-database.

Abbreviations and acronyms : REACH = Registration, evaluation and autorisation of chemicals

CLP = Classification, labelling and packaging.

Training advice : Before using/handling the product one must read carefully the MSDS.

Company disclaimer

The information provided in this safety data sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any proceed, unless specified in the text.