

Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing date 02.08.2024

Version number 9 (replaces version 8)

Revision: 02.08.2024

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

- **1.1 Product identifier**
 - Trade name: **Tetra Test NO₃- 1**
 - Article number: 823.709
 - UFI: 4220-A0AS-C00A-Q5KF
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
 - Sector of Use SU21 Consumer uses: Private households / general public / consumers
 - Application of the substance / the mixture Test solution for aquarium and pond water
- **1.3 Details of the supplier of the safety data sheet**
 - **Manufacturer/Supplier:**
 - Tetra GmbH
 - Herrenteich 78
 - D-49324 Melle
 - Germany
 - **Importer**
 - Spectrum Brands (UK) Ltd.
 - Fir Street, Failsworth, Manchester, M35 0HS
 - England
 - +44 (161) 9473000
 - **Informing department:**
 - Regulatory Department
 - Tel. +49(0)5422-105-0
 - email: MSDS@eu.spectrumbrands.com
 - **1.4 Emergency telephone number:**
 - 24-hour-Emergency-Telephone-Number (Company/Contract ID code:"TTR")
 - +1 872 5888271
 - National Health Service (NHS): 111

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
 - Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.

- **2.2 Label elements**
 - **Labelling according to Regulation (EC) No 1272/2008**
 - The product is classified and labelled according to the CLP regulation.

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· Hazard pictograms



GHS02 GHS07

· Signal word Warning

· Hazard statements

H226 Flammable liquid and vapour.

H319 Causes serious eye irritation.

· Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P501 Dispose of contents/container in accordance with national regulations.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

· PBT: no

· vPvB: no

· Determination of endocrine-disrupting properties no

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Description: Aqueous solution comprising several components.

· Dangerous components:

CAS: 67-63-0 EINECS: 200-661-7 Reg.nr.: 01-2119457558-25-XXXX	propan-2-ol ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	14.641%
CAS: 77-92-9 EINECS: 201-069-1 Reg.nr.: 01-2119457026-42-XXXX	citric acid ⚠ Eye Irrit. 2, H319; STOT SE 3, H335	7.501%
CAS: 6132-04-3 EINECS: 200-675-3 Reg.nr.: 01-2119457027-40-XXXX	Sodium citrate dihydrate ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	2.868%

· SVHC

This product does not contain any substances of very high concern pursuant to Reach Regulation (EC) No. 1907/2006 (Art. 57) above the legal concentration limit of $\geq 0.1\%$ (w/w).

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

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· After inhalation Supply fresh air; consult doctor in case of symptoms.

· After skin contact The product is not skin irritating.

· After eye contact

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

· After swallowing In case of persistent symptoms consult doctor.

· 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

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- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**
CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**
Prevent material from reaching sewage system, holes and cellars.
Dilute with much water.
Do not allow to enter drainage system, surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **6.4 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 information on disposal.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Storage class 3**
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**

- **Components with limit values that require monitoring at the workplace:**

67-63-0 propan-2-ol

WEL (Great Britain)	Short-term value: 1250 mg/m ³ , 500 ppm
	Long-term value: 999 mg/m ³ , 400 ppm

- **Regulatory information** WEL (Great Britain): EH40/2020
- **Additional information:** The lists that were valid during the compilation were used as basis.

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- **8.2 Exposure controls**
- **Appropriate engineering controls** No further data; see section 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures**
Keep away from foodstuffs, beverages and food.
Take off immediately all contaminated clothing
Wash hands during breaks and at the end of the work.
Avoid contact with the eyes and skin.
- **Breathing equipment:** Not required.
- **Hand protection**
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, e.g. KCL 890 Vitoject® (full contact), KCL 890 Vitoject® (splash contact).
- **Material of gloves**
Fluorocarbon rubber (Viton)
Recommended thickness of the material: ≥ 0.7 mm
- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
For the mixture the penetration time has to be at least 480 minutes (permeation according to EN 374 Part 3: Level 6).
- **Eye/face protection** Tightly sealed safety glasses.

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Physical state** Fluid
- **Colour:** Colourless
- **Odour:** Alcohol-like
- **Odour threshold:** Not determined.
- **Melting point/freezing point:** -10-0 °C
- **Boiling point or initial boiling point and boiling range** 98 °C (DSC)
- **Flammability** Flammable.
- **Lower and upper explosion limit**
- **Lower:** 2 Vol % (67-63-0 propan-2-ol)
- **Upper:** 12 Vol % (67-63-0 propan-2-ol)
- **Flash point:** 30 °C (DIN 13736)
- **Auto-ignition temperature:** 425 °C (67-63-0 propan-2-ol)
- **Decomposition temperature:** Not determined.
- **pH at 20 °C** 3.3
- **Viscosity:**
- **Kinematic viscosity at 20 °C** <10 mm²/s
- **dynamic at 20 °C:** <10 mPas
- **Solubility**
- **Water:** Soluble
- **Partition coefficient n-octanol/water (log value)** Not determined.
- **Vapour pressure at 20 °C:** 43 hPa (67-63-0 propan-2-ol)
- **Density and/or relative density**
- **Density at 20 °C** 1.0245 g/cm³
- **Relative density** Not determined.
- **Vapour density** Not determined.

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- **9.2 Other information**
- **Appearance:**
- **Form:** Fluid
- **Important information on protection of health and environment, and on safety.**
- **Self-inflammability:** Product is not selfigniting.
- **Explosive properties:** Product is not explosive. However, formation of explosive air/steam mixtures is possible.
- **Solvent content:**
- **Organic solvents:** 14.6 %
- **Water:** 75.0 %
- **Solids content:** 10.4 %
- **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
- **Flammable liquids** Flammable liquid and vapour.
- **Flammable solids** Void
- **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

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **LD/LC50 values that are relevant for classification:**
Source: European Chemicals Agency, <http://echa.europa.eu/>

67-63-0 propan-2-ol

Oral	LD50	5,840 mg/kg (Rat)
ECHA registration dossier		

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77-92-9 citric acid

Oral	LD50	5,400 mg/kg (Mouse) ECHA registration dossier
Dermal	LD50	>2,000 mg/kg (Rat) ECHA registration dossier

6132-04-3 Sodium citrate dihydrate

Oral	LD50	5,400 mg/kg (Mouse) ECHA registration dossier (Read-Across: citric acid)
Dermal	LD50	>2,000 mg/kg (Rat) Echa registration dossier (Read-across : citric acid)

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients is listed.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:**
Source: European Chemicals Agency, <http://echa.europa.eu/>

67-63-0 propan-2-ol

LC50/24h	9,714 mg/l (Daphnia Magna) ECHA registration dossier
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77-92-9 citric acid

LC50/96 h	>100 mg/l (Pimephales promelas) ECHA registration dossier
LC50/48 h	>100 mg/l (Pimephales promelas) ECHA registration dossier
EC50/48 h	>50 mg/l (Dreissena polymorpha) ECHA registration dossier

6132-04-3 Sodium citrate dihydrate

LC50/24h	2,055 mg/l (Daphnia Magna) ECHA registration dossier
LC50/48 h	590 mg/l (Leuciscus idus) ECHA registration dossier

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** The substances in the mixture do not meet the PBT criteria according to REACH, annex XIII.
- **vPvB:** The substances in the mixture do not meet the vPvB criteria according to REACH, annex XIII.
- **12.6 Endocrine disrupting properties**
The product does not contain substances with endocrine disrupting properties.

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- **12.7 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 bodies or sewage system.*

SECTION 13: Disposal considerations


- **13.1 Waste treatment methods**
- **Recommendation**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Waste disposal key number:** *Waste key numbers are to be determined according to the specific process.*

- **European waste catalogue**

HP3	Flammable
HP4	Irritant - skin irritation and eye damage

- **Uncleaned packagings:**
- **Recommendation:** *Disposal must be made according to official regulations.*
- **Recommended cleaning agent:** *Water, if necessary with cleaning agent.*

SECTION 14: Transport information

- | | | |
|---|--|---------------------------|
| <ul style="list-style-type: none"> · 14.1 UN number or ID number · ADR, IMDG, IATA | UN1987 | |
| <ul style="list-style-type: none"> · 14.2 UN proper shipping name · ADR · IMDG, IATA | 1987 ALCOHOLS, N.O.S. (ISOPROPANOL (ISOPROPYL ALCOHOL))
ALCOHOLS, N.O.S. (ISOPROPANOL (ISOPROPYL ALCOHOL)) | |
| <ul style="list-style-type: none"> · 14.3 Transport hazard class(es) · ADR, IMDG, IATA | <div style="text-align: center; margin-bottom: 10px;">  </div> <ul style="list-style-type: none"> · Class · Label | 3 Flammable liquids.
3 |
| <ul style="list-style-type: none"> · 14.4 Packing group · ADR, IMDG, IATA | III | |
| <ul style="list-style-type: none"> · 14.5 Environmental hazards: · Marine pollutant: | No | |
| <ul style="list-style-type: none"> · 14.6 Special precautions for user · Kemler Number: · EMS Number: | Warning: Flammable liquids.
30
F-E,S-D | |
| <ul style="list-style-type: none"> · 14.7 Maritime transport in bulk according to IMO instruments | Not applicable. | |
| <ul style="list-style-type: none"> · Transport/Additional information: | | |
| <ul style="list-style-type: none"> · ADR · Limited quantities (LQ) | 5L | |

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· Transport category	3
· Tunnel restriction code	D/E
· Remarks:	Classification according to 2.1.3.3 ADR/RID/ADN
· IMDG	
· Limited quantities (LQ)	5 L
· Remarks:	Classification according to 2.0.2.5.2.3 IMDG-Code
· IATA	
· Remarks:	Classification according to 4.1.3.1 IATA-DGR
· UN "Model Regulation":	UN 1987 ALCOHOLS, N.O.S. (ISOPROPANOL (ISOPROPYL ALCOHOL)), 3, III

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS02 GHS07

- **Signal word** Warning
- **Hazard statements**
H226 Flammable liquid and vapour.
H319 Causes serious eye irritation.
- **Precautionary statements**
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read carefully and follow all instructions.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501 Dispose of contents/container in accordance with national regulations.
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category** P5c FLAMMABLE LIQUIDS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5.000 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50.000 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- **REGULATION (EU) 2019/1148**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

· **Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

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· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

· **National regulations**

· **Technical instructions (air):**

Class	Share in %
NK	14.6

· **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

· **Other regulations, limitations and prohibitive regulations**

· **Substances of very high concern (SVHC) according to REACH, Article 57**

This product does not contain any substances of very high concern pursuant to Reach Regulation (EC) No. 1907/2006 (Art. 57) above the legal concentration limit of $\geq 0.1\%$ (w/w).

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

· **Relevant phrases**

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

· **Classification according to Regulation (EC) No 1272/2008**

Flammable liquids

On basis of test data

Serious eye damage/irritation

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

· **Department issuing data specification sheet:**

Tetra GmbH

Herrenteich 78

49324 Melle

Germany

· **Contact:**

Tetra GmbH

Tel.: +49(0)5422105-0

· **Date of previous version:** 17.10.2022

· **Version number of previous version:** 8

· **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

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

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

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

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*Skin Irrit. 2: Skin corrosion/irritation – Category 2**Eye Irrit. 2: Serious eye damage/eye irritation – Category 2**STOT SE 3: Specific target organ toxicity (single exposure) – Category 3**** Data compared to the previous version altered.**

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