



SAFETY DATA SHEET

In accordance with Regulations (EC) No. 1907/2006, as amended by Regulation (EU) No 2020/878

Version: EN1.5

Replaces version: v1.4

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1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier: **TK20 Chromium-6 Neutralizer**

Product number: TK20-F01

Supplier: MATinspired B.V.

REACH Number: A registration number is not available for this substance because the substance or use is excluded for registration, because for the annual volume no registration is required or because the registration is foreseen with a later registration deadline

UFI: D0X2-908V-V00J-VANS

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

For the reduction/removal of chromium-6 contaminations on metals

1.3 Details of the supplier of the safety data sheet

Supplier: MATinspired B.V.

Ericssonstraat 2

NL-5121 ML Rijen

The Netherlands

Telephone number: +31 85 30 36 411

E-mail: info@matinspired.com

1.4 Emergency telephone number:

To be contacted by medical personnel 24 hours per day, throughout the year:

+31 (0) 88 755 8000, National Poisons Information Centre (NVIC), Utrecht, The Netherlands.

Only for the purpose of informing medical personnel in case of acute intoxications.

2. Hazards identification

2.1 Classification of the substance or mixture in accordance with Regulation (EC) No 1272/2008

Classification	Hazard category	Hazard statement
Eye irritation	Category 2	H319

2.2 Label elements in accordance with Regulation (EC) No. 1272/2008

Hazard pictograms



Signal word: Warning

Hazard statements

H319 Causes serious eye irritation

Precautionary statements

P264 Wash exposed skin thoroughly after handling

P280 Wear protective gloves, eye protection.

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

P337+P313 – If eye irritation persists: Get medical advice/attention.

2.3 Other hazards

None

3. Composition/information on ingredients

3.1 Substances

Chemical characterisation: Mixtures

Description: Aqueous mixture

3.2 Mixture

Component	Concentration	Product identification	Hazard classes and hazard categories according to Regulation (EC) no. 1272/2008 (CLP)
Water (demineralised)	85 – 95%	CAS: 7732-18-5	-
Citric acid monohydrate	5 – 15%	CAS: 5949-29-1	100% citric acid: Eye Irrit. 2, H319

Surfactant <1%

Further information:

Hazard class of mixture (Eye Irrit. 2, H319) is determined by Table 3.3.3. of the Regulation (EC) no. 1272/2008 (CLP).

For the full text of the hazards mentioned here, see Section 16

4. First aid measures

4.1 Description of first aid measures

- General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- After inhalation:** Allow affected person to breathe fresh air. Allow the victim to rest.
- After skin contact:** Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
- After eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- After swallowing** Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released: carbon oxides (CO, CO₂).

Non-combustible.

5.3 Advice for firefighters

- Protective equipment: Wear self-contained respiratory protective device.
- Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

Contain escaping vapours with water.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Protective equipment: Safety glasses

Avoid substance contact.

Do not inhale steams/aerosols.

6.2 Environmental precautions

Do not allow to enter sewers/ground water/soil.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, gravel, sawdust, universal binder).

6.4 Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection

See Section 13 for information on waste disposal

7. Handling and storage

7.1 Precautions for safe handling

See section 2.2.

Wear personal protection equipment (refer to section 8). Avoid contact with eyes and skin. Wash hands before breaks and after work. When using do not eat, drink or smoke. Provide eye shower and label its location conspicuously.

7.2 Conditions for safe storage, including any incompatibilities

Keep container closed when not in use. Recommended storage temperature 15°C-25°C

Storage Class (TRGS 510)/German Lagerklasse (LGK): 12

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8. Exposure controls/personal protection

8.1 Control parameters

Does not contain substances above concentrations limits fixing an occupational exposure limit.

Predicted No-Effect Concentrations (PNEC) values of 5949-29-1 Citric Acid Monohydrate:

Type	PNEC value
Freshwater	0.44 mg/l
Marine water	0.044 mg/l
Freshwater sediment	34.6 mg/kg dwt
Marine sediment	3.46 mg/kg dwt
Soil	33.1 mg/kg dwt
Sewage treatment plant	>1000 mg/kg

8.2 Exposure controls

Personal protective equipment:

Eye/face protection

Eye glasses with side protection, recommended norms: DIN-/EN-Norms EN 166

Skin protection

Protection of hands

Suitable material: NBR (Nitril rubber)

Thickness of the glove material: $\geq 0,1$ mm

Breakthrough time (maximum wearing time): 480 minutes

Recommended glove articles DIN-/EN-Norms: EN ISO 374

Other

Wear appropriate protective working clothes

Respiratory protection

Respiratory protection not required in normal conditions

Respiratory protection necessary at: aerosol or mist formation

Suitable respiratory protection apparatus: Full-/half-/quarter-face mask (DIN EN 136/140)

Suitable material: ABEK2P3

Additional information

Wash hands before breaks and after work. Avoid contact with eyes and skin. When using do not eat, drink or smoke.

Appropriate engineering controls: Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Provide adequate general and local exhaust ventilation

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	Clear light red
Odour:	Slight
Melting point/freezing point:	Not determined
Boiling point or initial boiling point and boiling range:	Not determined
Flammability:	Not applicable
Lower and upper explosion limit:	Not applicable
Flash point:	Not applicable
Auto-ignition temperature:	Not applicable
Decomposition temperature:	No data available
pH:	1-2
Kinematic viscosity:	Not determined
Solubility:	Not applicable since physical state is liquid
Partition coefficient	
n-octanol/water (log value):	-1.72 (20 °C) (Citric Acid Monohydrate)
Vapour pressure:	Not determined
Density and/or relative density:	~1,04 g/cm ³ (20°C)
Relative vapour density:	Not determined
Particle characteristics:	Contains no nanoparticles

9.2 Other information

Irrelevant

10. Stability and reactivity

10.1 Reactivity

No additional information available

10.2 Chemical stability

Not established

10.3 Possibility of hazardous reactions

Not established

10.4 Conditions to avoid

Direct sunlight. Extremely high or low temperatures

10.5 Incompatible materials

Strong oxidizers. Strong bases.

10.6 Hazardous decomposition products

Fume. Carbon monoxide. Carbon dioxide

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity:	Acute oral toxicity: Citric acid anhydrous - LD50: > 3000 mg/kg – Rat (Oyo Yakuri. Pharmacometrics. Vol. 43, Pg. 561, 1992); Actue dermal toxicity: LD50: 2.000 mg/kg - Rat
Skin corrosion/irritation:	Not applicable
Serious eye damage/irritation:	Causes serious eye irritation.
Respiratory or skin sensitisation:	Not applicable
Germ cell mutagenicity:	No indications of human germ cell mutagenicity exist.
Carcinogenicity:	No indication of human carcinogenicity.
Reproductive toxicity:	no data available
STOT-single exposure:	not applicable
STOT-repeated exposure:	not applicable
Aspiration hazard:	not applicable

11.2 Information on other hazards

The product should be handled with the usual care as necessary for chemicals.

12. Ecological information

12.1 Toxicity

Endpoint	Value	Species	Exposure time	Source
LC50	440 mg/l	fish	48 hour	Juhnke and Ludemann 1978, rel. 2
LC50	85 mg/l	Daphnia magna	24 hour	ECHA

* Anhydrous Citric acid

12.2 Persistence and degradability

No further relevant information available

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water: -1.72 (20 °C)

12.4 Mobility in soil

No further relevant information available

12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

12.6 Endocrine disrupting properties

No further relevant information available

12.7 Other adverse effects:

No further relevant information available

13. Disposal considerations

13.1 Waste treatment methods

Waste disposal recommendations: Dispose in a safe manner in accordance with location/nation regulations.

Ecology – waste materials: Avoid release to the environment

14. Transport information

Land transport (ADR/RID)

Not regulated

Sea transport (IMDG)

Not regulated

Air transport (ICAO-TI / IATA-DGR)

Not regulated

15. Regulatory information

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

EU legislation:

- Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (Text with EEA relevance)
- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (Text with EEA relevance)
- Commission Regulation (EU) 2020/878 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Volatile organic compounds (VOC):	0.0%
German Water Hazard Class:	slightly hazardous to water (WGK 1)
Storage Class (TRGS 510)/German Lagerklasse (LGK):	12

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

16. Other information

Changes to the previous version

Update of section 3.2 Mixture, Further Information
Update of section 7. Handling and storage
Update of section 8. Exposure controls/personal protection
Update of section 9. Physical and chemical properties
Update of section 11. Toxicological information
Update of section 12. Ecological Information
Update of section 15. Regulatory information

Full text of H-Statements referred to under section 2 and 3

H319 Causes serious eye irritation

Abbreviations

ADR	Accord européen sur le transport des marchandises Dangereuses par Route (European agreement concerning the International Carriage of Dangerous Goods by Road)
CAS	Chemical Abstracts Service
CLP	Classification, Labeling and Packaging
DGR	Dangerous Goods Regulations
DIN	Deutsches Institut für Normung (German Institute for Standardization)
EC	European Commission
EC50	Effective Concentration 50%

ECHA	European Chemicals Agency
EEA	European Economic Area
EINECS	European Inventory of Existing Commercial chemical Substances
EN	European Standards
ErC50	Effective Response Concentration 50%
EU	European Union
GESTIS	Information system on hazardous substances of the German Social Accident Insurance
IATA	International Air Transport Association
ICAO-TI	International Civil Aviation Organization-Technical Instructions
IMDG	International Maritime Code for Dangerous Goods
ISO	International Organisation for Standardisation
LD50	lethal dose, 50%
NBR	Nitrile Butadiene Rubber
NVIC	Nationaal Vergiftigingen Informatie Centrum (National Poisons Information Centre)
PBT	Persistent, Bioaccumulative and Toxic
pH	potential of hydrogen
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulation concerning the international Carriage of Dangerous Goods by Rail
STOT	Specific Target Organ Toxicant
TRGS	Technical Rules for Hazardous Substances
UN	United Nations
VOC	Volatile Organic Compounds
vPvB	very Persistent, very Bioaccumulative
WGK	Wassergefährdungsklasse (Water Hazard Class)

Disclaimer

The information in these safety data sheets is based on our current knowledge and is considered correct at the time of publication. However, no indication is given related to their accuracy and completeness. The information is only meant as a guideline and cannot be regarded as a guarantee or quality specification. All materials may present unprecedented risks and must be used with care. Although certain risks are described, we cannot guarantee that these are the only risks that exist.

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