

SAFETY DATA SHEET

In accordance with Regulations (EC) No. 1907/2006

Version EN1.21; Revision of 1-10-2021; Date of print: 26-1-2022

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

1.1 Product identifier: MATinspired Chromium-6 Detection Fluid

Product number: MI-Cr6-K01

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

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

Detection of chromium-6 in surface contaminations, dust particles, coatings and paint layers

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 30 274 8888, National Poisons Information Center, Utrecht, The Netherlands

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
Skin irritation	Category 2	H315
Corrosive to metals	Category 1	H290

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

Hazard pictograms

**Signal word:** Warning

Hazard statements

H319 Causes serious eye irritation
H315 Causes skin irritation
H290 May be corrosive to metals

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302 + P 352 IF ON SKIN: wash with plenty of water.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

UFI: PQS2-Y0S1-J00T-S8HJ

2.3 Other hazards

None

3. Composition/information on ingredients

3.1 Composition:

Chemical characterisation: Mixtures
Description: Aqueous mixture

3.2 Dangerous components

Component	Concentration	Product identification	CLP Classification
Sulphuric acid	5 - 10%	CAS: 7664-93-9 EINECS: 231-639-5	Skin Corr. 1A – H314 Met. Corr. 1, H290

Further information:

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

4. First aid measures

4.1 Description of first aid measures

After inhalation: Provide fresh air.

After skin contact: Rinse with plenty of water. Remove contaminated clothes.

After eye contact: Rinse with plenty of water. Consult an eye doctor.

After swallowing: Let the affected person drink water immediately (not more than two glasses).
Consult a doctor.

Information for doctor: Show this safety data sheet to the doctor in attendance.

4.2 Most important symptoms and effects, both acute and delayed

Irritating effects, collapse of blood circulation.

5. Firefighting measures

Extinguishing media

Suitable extinguishing media: CO₂, extinguishing powder or water spray.

Information for firefighters: No special measures

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice to non-emergency people:

Do not inhale vapours and aerosols.

Avoid contact with the substance.

Ensure adequate ventilation.

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

Take up using a moisture-absorbing material (sand, gravel, sawdust, universal binder).

Use neutralising agent

Dispose contaminated material as waste according to Section 13

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

Ensure good ventilation/exhaustion at the workplace

Prevent formation of aerosols

Information about protection against explosions and fires: No special measures required

7.2 Conditions for safe storage, including any incompatibilities

Conditions for storage

Store the product in a cool place.

Advice for mixed storage

Not applicable

Further information on storage

Keep packaging closed as much as possible

Store cool and dry

Keep away from food and drink

7.3 Specific end use(s)

No relevant information

8. Exposure controls/personal protection

8.1 Control parameters

Ingredient (Designation)	Regulatory information	Country	Limit value type	Limit value
Sulphuric acid	2009/161/EU	EU	Long Term Value*	0.05 mg/m ³
Sulphuric acid	AGW, TRGS 900	DE	Long Term Value*	0.1 mg/m ³
Sulphuric acid	GESTIS	UK	Long Term Value*	0.05 mg/m ³
Sulphuric acid	GESTIS	AU	Long Term Value*	1 mg/m ³
Sulphuric acid	GESTIS (NIOSH and OSHA)	US	Long Term Value*	1 mg/m ³
Sulphuric acid	GESTIS	CA Ontario	Long Term Value*	0.2 mg/m ³
Sulphuric acid	GESTIS	CA Québec	Long Term Value*	1 mg/m ³

* Average over 8 hours

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed
 Immediately remove all contaminated clothing
 Wash hands before breaks and at the end of work
 Avoid contact with the eyes and skin
 Do not use in combination with other etchants

Respiratory protection

In case of insufficient ventilation, wear a respiratory device and components that have been tested and approved in accordance with the appropriate government standards.

Protection of hands

Safety gloves

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

Glove material: for example Nitril

The selection of 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.

Eye protection

Tightly sealed safety glasses

Body protection

Wear appropriate protective working clothes

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Colourless liquid
Odour	Odourless
pH	Approx. 1
Melting point	Not determined
Boiling point	Not determined
Flash point	Not applicable
Ignition temperature	Not applicable
Auto-ignition	The product does not auto-ignite
Explosion hazard	Not applicable

Explosion limits	The product does not present an explosion hazard
Vapour pressure	Not determined
Density	Not determined
Solubility in water	Completely soluble
Viscosity	
Dynamic	Not determined
Kinematic	Not determined

9.2 Other information

10. Stability and reactivity

10.1 Reactivity

Oxidants

10.2 Chemical stability

Stable under normal ambient conditions of temperature and pressure

10.3 Possibility of hazardous reactions

Alkali compounds, ammonia, alkaline waste

10.4 Conditions to avoid

No further relevant information available

10.5 Incompatible materials

Animal/vegetable tissues.

10.6 Hazardous decomposition products

In the event of fire: see Section 5.

11. Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity:

Damage to the mucosae of mouth, oesophagus and stomach.

Primary irritant effect:

On the skin: Mixture causes severe skin irritation.

On the eye: Mixture has a strong caustic effect on the cornea

Sensitization: No sensitizing effects known.

After inhalation: Mucosal irritations; sensitizing effect on the respiratory tracts.

Additional toxicological information:

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

12. Ecological information

12.1 Toxicity

In water: No further relevant information available

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

Other ecological information:

Do not allow undiluted/unneutralised product or large quantities of it to be poured down the sink or to reach ground water. Rinse-off of large amounts into the sewer or surface water may lead to changed pH values, which harms aquatic organisms.

12.5 Results of PBT and vPvB assessment

PBT: not applicable

vPvB: not applicable

12.6 Other adverse effects:

No further relevant information available

13. Disposal considerations

13.1 Waste treatment methods

Recommendation:

Must not be disposed of together with household garbage. Do not allow the product to reach the sewer system. This substance and its packing must be disposed of as hazardous waste.

14. Transport information

Land transport (ADR/RID)

14.1 UN number:	UN 2796
14.2 Proper shipping name:	SULPHURIC ACID
14.3 Transport hazard class(es):	8 (Corrosive substances)
14.4 Packing group:	// (In this appearance the LQ regulation applies)
Hazard label (primary risk):	8 (In this appearance the LQ regulation applies)
Packing limits: Limited quantities (LQ):	1L
14.5 Environmental hazards:	No
14.6 Special precautions for the user:	Warning: Corrosive substances

Sea transport (IMDG)

14.1 UN-Number:	UN 2796
14.2 Proper Shipping Name:	SULPHURIC ACID
14.3 Class(es):	8
14.4 Packing group:	//
14.5 Environmental hazards:	No
14.6 Special precautions for user:	
EmS-No.	F-A S-B

Air transport (ICAO-TI / IATA-DGR)

14.1 UN number:	UN 2796
14.2 Proper Shipping Name:	SULPHURIC ACID
14.3 Class(es)	8 (Corrosive substances)
Hazard labels(s):	8

14.4 Packing group: //

Packing limits:

Limited quantities (LQ): 1L

14.5 Special precautions for user not relevant

Additional air transport information:

When sold in quantities of 8 ml the Limited Quantity (LQ) regulation applies

When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of E1, E2, E4 or E5, this item meets the Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labelled as Dangerous Goods/Excepted Quantity/Limited Quantity.

15. Regulatory information

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

German Water Hazard Class: slightly hazardous to water (WGK 1)

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

16. Other information

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

H290 May be corrosive to metals

H314 Causes severe skin burns and eye damage

H315 Causes skin irritation

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)

DGR - Dangerous Goods Regulations

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

PBT - Persistent, Bioaccumulative and Toxic

RID - Regulation concerning the international Carriage of Dangerous Goods by Rail

vPvB - very Persistent, very Bioaccumulative

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. MATinspired B.V. cannot be held liable for damages resulting from the use of or contact with the product.

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