SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) and Regulation (EU) 2020/878

KavarClean® Cr(VI) Surface Cleaner

Ready-to-use aqueous cleaning solution

Version: 1.0

Revision date: August 2026

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

1.1 Product identifier

Trade name: KavarClean® Cr(VI) Surface Cleaner

Product form: Ready-to-use aqueous mixture

Article/UFI number: Not assigned; UFI not required because the mixture is not classified as hazardous.

1.2 Relevant identified uses and uses advised against

Identified use: Professional aqueous cleaning and reductive conversion of chromium(VI)-containing surface residues on metal components.

Uses advised against: Consumer use; mixing with other chemicals; use on Cr(VI)-contaminated surfaces without a workplace risk assessment.

1.3 Details of the supplier of the safety data sheet

Kavarmat® Sp. z o.o. Sp. k.
Robotnicza 59-61
55-095 Długołęka
Poland
www.kavarmat.com
office@kavarmat.eu

1.4 Emergency telephone number

Emergency telephone number: +48 784 911 092

Availability: 09:00-17:00

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Based on the known components, their concentrations and the stated pH > 2.0, the mixture does not meet the criteria for classification as hazardous under Regulation (EC) No 1272/2008 [CLP].

2.2 Label elements

Hazard pictograms: Not required.

Signal word: Not required.

Hazard statements: Not required.

Supplemental hazard information: Not required.

2.3 Other hazards

The known components do not meet the PBT/vPvB criteria. No known endocrine-disrupting component is present at 0.1% by weight or above. During use, chromium(VI) and reaction products may enter used solution or wipes; this subsequent contamination is not part of the classification of the unused product.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical characterisation: Aqueous mixture of organic reducing and complexing agents.

Components subject to disclosure: No components are present at concentrations requiring disclosure in the safety data sheet pursuant to REACH Annex II, Section 3.2.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: Remove contaminated clothing. Seek medical advice if discomfort persists.

After inhalation: Move to fresh air and keep at rest if symptoms occur. Seek medical advice if symptoms persist.

After skin contact: Wash with plenty of water and soap. Clean contaminated clothing before reuse.

After eye contact: Rinse cautiously with water for several minutes. Remove contact lenses if easy to do. Continue rinsing. Seek medical advice if irritation persists.

After ingestion: Rinse mouth. Do not induce vomiting. Seek medical advice if unwell.

Protection of first-aider: For used product, consider possible chromium(VI) contamination and wear suitable protective equipment.

4.2 Most important symptoms and effects, both acute and delayed

No toxicological test data are available for the complete mixture. Direct eye contact may cause irritation due to its acidic character, although classification criteria are not met.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. In the event of exposure to previously contaminated product, advise of possible chromium(VI) exposure.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Non-combustible aqueous solution. Use extinguishing media appropriate to the surrounding fire.

Unsuitable extinguishing media: No product-specific restrictions known.

5.2 Special hazards arising from the substance or mixture

Strong heating or fire may produce carbon oxides and other decomposition products of organic components. Used product may contain metal-bearing reaction products or contaminants.

5.3 Advice for firefighters

Wear suitable respiratory protection and protective clothing. Prevent contaminated fire-fighting water from entering drains, soil or surface water uncontrolled.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid eye and skin contact. Beware of slip hazard. Treat used solution as potentially contaminated with chromium(VI).

6.2 Environmental precautions

Do not allow larger quantities to enter drains, soil or surface water uncontrolled. Used product is subject to the requirements of the contamination taken up.

6.3 Methods and material for containment and cleaning up

Absorb with inert, non-combustible material and collect in tightly closed containers. Label possible chromium(VI) contamination and dispose of properly.

6.4 Reference to other sections

Safe handling: Section 7. Personal protection: Section 8. Disposal: Section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

For professional users only. Avoid contact with eyes, skin and clothing. Minimise aerosol formation. Carry out a workplace risk assessment before use on Cr(VI)-contaminated surfaces. Do not mix with oxidisers, alkaline products or other cleaners.

Occupational hygiene: Do not eat, drink or smoke when using. Wash hands after use. Keep contaminated workwear separate from private clothing.

7.2 Conditions for safe storage, including any incompatibilities

Store in the tightly closed original container, cool, frost-free and protected from direct sunlight. Keep separate from oxidisers, alkalis and strongly alkaline materials.

Recommended ambient temperature: <40°C

Storage class: To be determined by the local safety officer.

7.3 Specific end use(s)

Professional surface cleaning, dust binding and reductive conversion of Cr(VI)-containing residues in accordance with workplace instructions.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

No applicable EU-wide occupational exposure limits are known for components requiring disclosure under Section 3. Limits for chromium(VI) relate to contamination at the workplace, not the unused product supplied.

8.2 Exposure controls

Engineering controls: Provide adequate ventilation. Avoid spray mist and dispersal of contaminated dust. Prefer direct dust-binding methods.

Eye/face protection: Tight-fitting safety goggles to EN 166, especially during transfer and spraying.

Hand protection: Chemical-resistant gloves, e.g. nitrile rubber, to EN ISO 374. Determine thickness and breakthrough time for the task and possible contamination.

Body protection: Suitable work or chemical-protective clothing according to the risk assessment. Prevent spread of contamination.

Respiratory protection: Normally not required for low-aerosol use. Select according to the risk assessment if aerosols form or work is carried out on contaminated surfaces.

Environmental exposure controls: Prevent release of used, potentially chromium-containing product to the environment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: Liquid

Colour: Colourless to pale yellow

Odour: Slight, characteristic

Melting point/freezing point: Not determined; aqueous matrix

Boiling point or initial boiling point and boiling range: Not determined; aqueous matrix

Flammability: Non-combustible aqueous solution

Lower and upper explosion limit: Not applicable

Flash point: Not applicable

Auto-ignition temperature: Not applicable

Decomposition temperature: Not determined

pH at 20 °C: > 2.0

Kinematic viscosity: Not determined

Solubility in water: Completely miscible

Partition coefficient n-octanol/water: Not determined

Vapour pressure: Not determined; aqueous matrix

Density at 20 °C: Not determined

Relative vapour density: Not determined

Particle characteristics: Not applicable (liquid)

9.2 Other information

No further data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Aqueous reducing mixture. Reacts as intended with oxidising species, including chromium(VI) compounds.

10.2 Chemical stability

Stable when stored correctly. Prolonged exposure to light, heat and atmospheric oxygen may degrade the reducing components.

10.3 Possibility of hazardous reactions

Reactions with strong oxidisers and alkaline substances are possible. Do not mix with other cleaning or neutralising agents.

10.4 Conditions to avoid

Strong heating, direct sunlight, frost and prolonged exposure to air.

10.5 Incompatible materials

Strong oxidising agents, alkalis and strongly alkaline materials.

10.6 Hazardous decomposition products

None known under recommended storage conditions. Strong heating may produce carbon oxides and other organic decomposition products.

SECTION 11: Toxicological information

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

Test data for the complete mixture: Not available.

Acute toxicity: Based on available data, the classification criteria are not met.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/irritation: Based on the known components, their concentrations and pH > 2.0, the classification criteria are not met.

Respiratory/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.

Specific target organ toxicity: 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

No known endocrine-disrupting components at a relevant concentration. Health effects of chromium(VI) contamination taken up at the workplace must be assessed separately.

SECTION 12: Ecological information

12.1 Toxicity

No test data are available for the complete mixture. Based on available data, the unused mixture does not meet the CLP criteria for classification as hazardous to the aquatic environment. This does not apply to used product that has taken up chromium compounds.

12.2 Persistence and degradability

No test data available for the complete mixture.

12.3 Bioaccumulative potential

No test data available for the complete mixture.

12.4 Mobility in soil

The product is completely miscible with water. No further data available.

12.5 Results of PBT and vPvB assessment

The known components do not meet the PBT/vPvB criteria of REACH Annex XIII.

12.6 Endocrine disrupting properties

No known endocrine-disrupting components at 0.1% by weight or above.

12.7 Other adverse effects

Used solution and wipes may contain chromium(III), unreacted chromium(VI) and other substances taken up from the surface. Prevent environmental release.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Unused product: Dispose of in accordance with local and national regulations. Do not discharge uncontrolled to drains.

Used product and wipes: Collect separately in suitable, tightly closed and labelled containers. Waste classification depends on the contamination taken up; in particular, consider residual chromium(VI). Use an authorised waste contractor.

Waste code: To be assigned by the waste producer or waste contractor according to application and process.

Packaging: Recycle fully emptied, uncontaminated packaging in accordance with local rules. Treat contaminated packaging as the contents.

SECTION 14: Transport information

14.1 UN number or ID number

Not applicable.

14.2 UN proper shipping name

Not dangerous goods under ADR/RID, IMDG and ICAO-TI/IATA.

14.3 Transport hazard class(es)

Not applicable.

14.4 Packing group

Not applicable.

14.5 Environmental hazards

Not classified as environmentally hazardous for transport.

14.6 Special precautions for user

Transport containers closed, upright and secured against falling or damage. Assess used or contaminated product separately.

14.7 Maritime transport in bulk according to IMO instruments

Not intended for carriage in bulk.

SECTION 15: Regulatory information

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

Regulation (EC) No 1907/2006 (REACH); Regulation (EC) No 1272/2008 (CLP); Regulation (EU) 2020/878; Directive 2008/98/EC on waste. Observe national rules of the country of supply and use.

REACH Candidate List/Annex XIV: No known components at a relevant concentration.

Water hazard class: To be determined by the local safety officer.

Employment restrictions: No specific restrictions known for the unused product. Applicable CMR and occupational safety rules apply when working on Cr(VI)-contaminated surfaces.

15.2 Chemical safety assessment

No chemical safety assessment has been carried out for the mixture.

SECTION 16: Other information

Document status: Version 1.0, revision date: August 2026

Classification method: Calculation based on the known components and their concentrations, taking into account pH > 2.0.

Revision information: First issue.

Abbreviations: ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road; CLP – Classification, Labelling and Packaging; CMR – carcinogenic, mutagenic or toxic for reproduction; IMDG – International Maritime Dangerous Goods Code; PBT – persistent, bioaccumulative and toxic; REACH – Registration, Evaluation, Authorisation and Restriction of Chemicals; vPvB – very persistent and very bioaccumulative.

Training advice: Train users in safe dust binding, aerosol prevention, protective equipment, contamination control and disposal of chromium-containing residues.

This safety data sheet describes the safety-relevant properties of the unused product supplied on the basis of available knowledge. It does not guarantee specific product properties. The user is responsible for the workplace risk assessment and compliance with applicable legislation. Reaction with contaminated surfaces changes the composition of the used product and may create additional hazards.