

Safety Data Sheet

Complies with Annex II of REACH - Regulation (EU) 2020/878

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

1.1. Product identifier

Code: 0036153
Name: KW-STAR
Chemical name and synonyms: KW-STAR

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

Sector of use: SU22 – Professional uses SU21 – Consumer uses
Product category: PC31 – Polishes and wax mixtures
Description/Usage: Powder crystallizer for marble and grits

1.3. Details of the supplier of the safety data sheet

Business name: MARBEC SRL
Address: VIA CROCE ROSSA 5/i
Location and State: 51037 MONTALE (PISTOIA)
ITALY
tel. +039 0573/959848
fax:

e-mail of the competent person,
responsible for the safety data sheet: info@marbec.it

1.4. Emergency telephone number

For urgent inquiries please contact

MARBEC srl

+390573959848 h8.30-13 h14-18 or +393348578502

Telephone number of Poison Control Centers active 24/24 hours

IRCSS Maugeri Foundation –

Pavia 0039-0382-24444

CAV Ospedali Riuniti –

Bergamo 0039-800-883300

CAV Niguarda Ca` Granda Hospital –

Milan 0039-02-66101029

CAV Careggi Hospital - Florence 0039-055-7947819

CAV Gemelli Polyclinic –

Rome 0039-06-3054343

CAV Umberto I Polyclinic –

Rome 0039-06 49978000

CAV Cardarelli Hospital –

Naples 0039-081 5453333

CAV Integrated Hospital Verona - Verona 800011858

SECTION 2. Hazards identification

2.1. Substance or mixture classification

The product is classified as dangerous pursuant to the provisions of Regulation (EC) 1272/2008 (CLP) (and subsequent amendments and adjustments). The product therefore requires a safety data sheet that complies with the provisions of Regulation (EU) 2020/878. Any additional information regarding risks to health and/or the environment is given in sections. 11 and 12 of this sheet.

Hazard classification and indications:

Acute toxicity, category 4

H302

Harmful if swallowed.

2.2. Label elements

Hazard labeling pursuant to Regulation (EC) 1272/2008 (CLP) and subsequent amendments and adjustments.

Hazard pictograms:



Warnings:

Attention

Indications of danger:

H302

Harmful if swallowed.

Precautionary statements:

P264

Wash . . . thoroughly after handling

P301+P312

IF SWALLOWED: Call a POISON CENTER / doctor / . . . / if you feel unwell.

P330

Rinse mouth.

Contains:

POTASSIUM TETRAOXALATE

2.3. Other dangers

Based on available data, the product does not contain PBT or vPvB substances in a percentage $\geq 0.1\%$.

The product does not contain substances having endocrine disrupting properties in concentration $\geq 0.1\%$.

SECTION 3. Composition/information on ingredients

3.2. Blends

Contains:

Identification

x = Conc. %

Classification 1272/2008 (CLP)

CORUNDUM

CAS 1344-28-1 30 ≤ x < 50
EC 215-691-6
INDEX -

POTASSIUM TETRAOXALATE

CAS 127-96-8 15 ≤ x < 30

Acute Tox. 4 H302, Acute Tox. 4 H312, Classification note according to Annex VI of the CLP Regulation: A

THERE IS -

Oral LD50: >300, ATE Dermal: 1100 mg/kg

INDEX 607-007-00-3

REACH Reg. 01-2119979573-22

The complete text of the danger indications (H) is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove any contact lenses. Wash immediately and abundantly with water for at least 15 minutes, opening the eyelids wide. Consult a doctor if the problem persists.

SKIN: Take off all contaminated clothing. Wash immediately and abundantly with water. If irritation persists, consult a doctor. Wash the contaminated garments before reusing them.

INHALATION: Move the subject to fresh air. If breathing is difficult, call a doctor right away.

INGESTION: Consult a doctor immediately. Induce vomiting only on medical advice. Do not give anything by mouth if the person is unconscious and not authorized by the doctor.

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

No specific information on symptoms and effects caused by the product is known.

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

Information not available

SECTION 5. Fire fighting measures

5.1. Fire fighting

SUITABLE EXTINGUISHING MEANS

Choose the most appropriate extinguishing media for the specific situation.

UNSUITABLE EXTINGUISHING MEANS

No one in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS DUE TO EXPOSURE IN THE EVENT OF FIRE

The product is not flammable or combustible.

POTASSIUM TETRAOXALATE

On combustion, caustic fumes of potassium oxide may be formed.

5.3. Recommendations for firefighters

EQUIPMENT

Normal fire fighting clothing, such as an open circuit compressed air breathing apparatus (EN 137), flame retardant suit (EN469), flame retardant gloves (EN 659) and firefighter boots (HO A29 or A30).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid dust formation by spraying the product with water if there are no contraindications.

Wearing of suitable protective equipment (including personal protective equipment referred to in section 8 of the safety data sheet) to prevent contamination of skin, eyes and personal clothing. These indications are valid both for those involved in the work and for emergency interventions.

6.2. Environmental precautions

Prevent the product from entering sewers, surface waters and groundwater.

6.3. Methods and materials for containment and cleaning up

Collect the spilled product and place it in containers for recovery or disposal. Eliminate the residue with jets of water if there are no contraindications.

Provide sufficient ventilation of the place affected by the leak. Evaluate the compatibility of the container to be used with the product, checking section 10. The disposal of contaminated material must be carried out in accordance with the provisions of point 13.

6.4. Reference to other sections

Any information regarding individual protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for Safe Handling

Handle the product after consulting all other sections of this safety data sheet. Avoid dispersion of the product in the environment. Do not eat, drink or smoke during use. Remove contaminated clothing and protective equipment before entering eating areas.

7.2. Conditions for safe storage, including any incompatibilities

Keep only in the original container. Keep containers closed, in a well-ventilated place, away from direct sunlight. Store containers away from any incompatible materials, checking section 10.

Storage class TRGS 510 (Germany):

13

7.3. Particular end uses

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Normative requirements:

DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
ESP	Spain	Professional exhibition limits for chemical agents in Spain 2021
BETWEEN	France	Values limiters of professional exposure to chemical agents in France. ED 984 - INRS
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
	TLV-ACGIH	ACGIH 2021

CORUNDUM**Threshold limit value**

Guy	State	TWA/8h		STEL/15min		Notes / Observations
		mg/m3	ppm	mg/m3	ppm	
MAK	DEU	4				INALAB
MAK	DEU	1.5				BREATHE
VLA extension	ESP	10				
VLEP extension	BETWEEN	10				
WEL	GBR	10				INALAB
WEL	GBR	4				BREATHE
TLV-ACGIH		1				BREATHE To the

POTASSIUM TETRAOXALATE

Predicted no-effect concentration for the environment - PNEC

Reference value in fresh water 0.1622 mg/l

Health - Derived no-effect level - DNEL / DMEL

Exposure route	Effects on consumers			Effects on workers				
	Sharp rooms	Acute systemic	Chronic premises	Chronic systemic	Sharp rooms	Acute systemic	Chronic premises	Chronic systemic
Oral								2.29 mg/kg bw/d

Legend:

(C) = CEILING ; INALAB = Inhalable Fraction; RESPIR = Respirable Fraction; THORAC = Thoracic fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected; NPI = No Hazards Identified.

It is recommended to consider in the risk assessment process the occupational exposure limit values established by the ACGIH for inert dusts not otherwise classified (PNOC respirable fraction: 3 mg/mc; PNOC inhalable fraction: 10 mg/mc). If these limits are exceeded, the use of a type P filter is recommended, the class of which (1, 2 or 3) must be chosen based on the outcome of the risk assessment.

8.2. Exposure controls

Considering that the use of adequate technical measures should always take priority over personal protective equipment, ensure good ventilation in the workplace through effective local aspiration.

When selecting personal protective equipment, seek advice from your chemical suppliers if necessary.

Personal protective equipment must bear the CE marking which certifies their compliance with current standards.

HAND PROTECTION

If prolonged contact with the product is expected, it is advisable to protect your hands with penetration-resistant work gloves (ref. standard EN 374).

For the final choice of the material of the work gloves, the process of using the product and any further products deriving from it must also be evaluated. It should also be remembered that latex gloves can give rise to sensitization phenomena.

SKIN PROTECTION

Wear long-sleeved work clothes and category I professional safety footwear (ref. Regulation 2016/425 and standard EN ISO 20344). Wash with soap and water after removing protective clothing.

EYE PROTECTION

It is advisable to wear airtight protective goggles (ref. standard EN 166).

If there is a risk of being exposed to splashes or splashes in relation to the work carried out, adequate protection of the mucous membranes (mouth, nose, eyes) must be provided in order to avoid accidental absorption.

RESPIRATORY PROTECTION

We recommend the use of a type P filtering face mask whose class (1, 2 or 3) and actual need must be defined on the basis of the outcome of the risk assessment (ref. standard EN 149).

ENVIRONMENTAL EXPOSURE CONTROLS

Emissions from production processes, including those from ventilation equipment, should be controlled for compliance with environmental protection legislation.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Property	Value	Information
Physical state	dust	
Color	white	
Odor	characteristic	
Melting or freezing point	Not available	
Initial boiling point	Not applicable	
Flammability	incombustible	
Lower explosive limit	Not available	
Upper explosive limit	Not available	
Flash point	> 90°C	
Self-ignition temperature	Not available	
pH	4 (sol. 10% in water)	
Kinematic viscosity	Not available	
Solubility	partially soluble in water	
Partition coefficient: n-octanol/water	Not available	
Vapor pressure	Not available	
Density and/or Relative Density	0,8 kg/l	
Relative vapor density	Not available	
Particle characteristics	Not available	

9.2. More info

9.2.1. Information relating to classes of physical hazards

Information not available

9.2.2. Other security features

Total Solids (250°C / 482°F)	100.00%
Explosive properties	not explosive
Oxidizing properties	non-oxidant

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular dangers of reaction with other substances under normal conditions of use.

10.2. Chemical stability

The product is stable under normal conditions of use and storage.

10.3. Possibility of hazardous reactions

Under normal conditions of use and storage, dangerous reactions are not foreseeable.

10.4. Conditions to avoid

None in particular. However, follow the usual precautions for chemical products.

10.5. Incompatible materials

Information not available

10.6. Hazardous decomposition products

Information not available

SECTION 11. Toxicological information

11.1. Information on the hazard classes defined in Regulation (EC) no. 1272/2008

Metabolism, kinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Immediate, delayed and chronic effects resulting from short and long term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation) of the mixture:	Not classified (no relevant component)
ATE (Oral) of the mix:	1000.33mg/kg
ATE (Dermal) of the mixture:	>2000mg/kg

CORUNDUM

LD50 (Oral):	> 5000 mg/kg Rat
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POTASSIUM TETRAOXALATE

LD50 (Dermal):	> 2000 mg/kg mouse
ATE (Dermal):	1100 mg/kg estimate from table 3.1.2 of Annex I of CLP (data used for the calculation of the estimate of the acute toxicity of the mixture)
LD50 (Oral):	> 300 mg/kg rat

SKIN CORROSION / SKIN IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / EYE IRRITATION

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITIZATION

Does not meet the classification criteria for this hazard class

Respiratory sensitization

Information not available

Skin sensitization

Information not available

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

Adverse effects on sexual function and fertility

Information not available

Harmful effects on offspring development

Information not available

Effects on or through breastfeeding

Information not available

SPECIFIC TARGET ORGAN TOXICITY (STOT) - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

SPECIFIC TARGET ORGAN TOXICITY (STOT) - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

DANGER IN CASE OF ASPIRATION

Does not meet the classification criteria for this hazard class

11.2. Information about other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with effects on human health under evaluation.

SECTION 12. Ecological information**12.1. Toxicity**

POTASSIUM TETRAOXALATE

LC50 - Fish

> 100mg/l/96h

EC50 - Crustaceans

> 100 mg/l/48h daphnia magna

12.2. Persistence and degradability

POTASSIUM TETRAOXALATE

Solubility in water > 10000 mg/l

Quickly degradable

CORUNDUM

Solubility in water < 2E-05 mg/l

Degradability: data not available

12.3. Bioaccumulative potential

POTASSIUM TETRAOXALATE

Partition coefficient: n-octanol/water -4.961

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

Based on available data, the product does not contain PBT or vPvB substances in a percentage $\geq 0.1\%$.

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with effects on the environment being evaluated.

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse if possible. Product residues are to be considered special hazardous waste. The dangerousness of the waste which partially contains this product must be evaluated on the basis of the legislative provisions in force.

Disposal must be entrusted to an authorized waste management company, in compliance with national and possibly local legislation.

CONTAMINATED PACKAGING

Contaminated packaging must be sent for recovery or disposal in compliance with national waste management regulations.

SECTION 14. Transportation Information

The product is not to be considered dangerous under the provisions in force regarding the transport of dangerous goods by road (ADR), by rail (RID), by sea (IMDG Code) and by air (IATA).

14.1. UN number or ID number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard classes

Not applicable

14.4. Packing group

Not applicable

14.5. Dangers for the environment

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Shipping in bulk in accordance with IMO acts

Irrelevant information

SECTION 15. Regulatory Information

15.1. Safety, health and environmental laws and regulations specific to the substance or mixture

Seveso category - Directive 2012/18/EU: None

Restrictions relating to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006

None

Regulation (EU) 2019/1148 - concerning the placing on the market and use of explosives precursors

Not applicable

Substances in Candidate List (Art. 59 REACH)

Based on the data available, the product does not contain SVHC substances in a percentage $\geq 0.1\%$.

Substances subject to authorization (Annex XIV REACH)

None

Substances subject to export notification obligation Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Sanitary checks

Workers exposed to this chemical agent dangerous to health must be subjected to health surveillance carried out according to the provisions of art. 41 of Legislative Decree 81 of 9 April 2008 unless the risk to the worker's health and safety has been assessed as irrelevant, in accordance with the provisions of art. 224 paragraph 2.

15.2. Chemical safety assessment

A chemical safety assessment has not been prepared for the mixture / substances mentioned in section 3.

SECTION 16. Other information

Text of the danger indications (H) mentioned in sections 2-3 of the sheet:

Acute Tox. 4	Acute toxicity, category 4
H302	Harmful if swallowed.
H312	Harmful in contact with skin.

LEGEND:

- ADR: European agreement for the carriage of dangerous goods by road
- CAS: Chemical Abstract Service Number
- CE: Identification number in ESIS (European Archive of Existing Substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EC50: Concentration that affects 50% of the population tested
- EmS: Emergency Schedule
- GHS: Globally Harmonized System for the classification and labeling of chemicals
- IATA DGR: Regulations for the transport of dangerous goods of the International Air Transport Association
- IC50: Concentration of immobilisation of 50% of the test population
- IMDG: International Maritime Code for the transport of dangerous goods
- IMO: International Maritime Organization
- INDEX: Identification number in Annex VI of the CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Level of occupational exposure

- PBT: Persistent, bioaccumulating and toxic according to REACH
- PEC: Predictable environmental concentration
- PEL: Predictable level of exposure
- PNEC: Predicted No Effect Concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation for the international transport of dangerous goods by train
- STA: Acute Toxicity Estimate
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that must not be exceeded during any moment of occupational exposure.
- TWA: Weighted Average Exposure Limit
- TWA STEL: Short Term Exposure Limit
- VOC: Volatile organic compound
- vPvB: Very persistent and very bioaccumulating according to REACH
- WGK: Aquatic hazard class (Germany).

GENERAL BIBLIOGRAPHY:

1. Regulation (EC) 1907/2006 of the European Parliament (REACH)
 2. Regulation (EC) 1272/2008 of the European Parliament (CLP)
 3. Regulation (EU) 2020/878 (Annex II REACH Regulation)
 4. Regulation (EC) 790/2009 of the European Parliament (I Atp. CLP)
 5. Regulation (EU) 286/2011 of the European Parliament (II Atp. CLP)
 6. Regulation (EU) 618/2012 of the European Parliament (III Atp. CLP)
 7. Regulation (EU) 487/2013 of the European Parliament (IV Atp. CLP)
 8. Regulation (EU) 944/2013 of the European Parliament (V Atp. CLP)
 9. Regulation (EU) 605/2014 of the European Parliament (VI Atp. CLP)
 10. Regulation (EU) 2015/1221 of the European Parliament (VII Atp. CLP)
 11. Regulation (EU) 2016/918 of the European Parliament (VIII Atp. CLP)
 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
 13. Regulation (EU) 2017/776 (X Atp. CLP)
 14. Regulation (EU) 2018/669 (XI Atp. CLP)
 15. Regulation (EU) 2019/521 (XII Atp. CLP)
 16. Delegated Regulation (EU) 2018/1480 (XIII Atp. CLP)
 17. Regulation (EU) 2019/1148
 18. Delegated Regulation (EU) 2020/217 (XIV Atp. CLP)
 19. Delegated Regulation (EU) 2020/1182 (XV Atp. CLP)
 20. Delegated Regulation (EU) 2021/643 (XVI Atp. CLP)
 21. Delegated Regulation (EU) 2021/849 (XVII Atp. CLP)
- The Merck Index. - 10th Edition
 - Handling Chemical Safety
 - INRS - Fiche Toxicologique (toxicological sheet)
 - Patty - Industrial Hygiene and Toxicology
 - NI Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
 - IFA GESTIS website
 - ECHA Agency website
 - Database of SDS models of chemical substances - Ministry of Health and Istituto Superiore di Sanità

Note for the user:

The information contained in this sheet is based on the knowledge available to us on the date of the last version. The user must ensure the suitability and completeness of the information in relation to the specific use of the product.

This document should not be interpreted as a guarantee of any specific property of the product.

Since the use of the product does not fall under our direct control, it is the user's obligation to observe the laws and regulations in force regarding hygiene and safety under his own responsibility. No responsibility is assumed for improper use.

Provide adequate training to personnel involved in the use of chemical products.

CLASSIFICATION CALCULATION METHODS

Physical and chemical hazards: The classification of the product has been derived from the criteria established by the CLP Regulation Annex I Part 2. The methods of evaluation of the physical and chemical properties are reported in section 9.

Health hazards: The classification of the product is based on the calculation methods in Annex I of CLP Part 3, unless otherwise indicated in section 11.

Environmental hazards: The classification of the product is based on the calculation methods set out in Annex I of CLP Part 4, unless otherwise indicated in section 12.

Changes from the previous revision

Changes have been made to the following sections:

01 / 02 / 03 / 08 / 09 / 11 / 12 / 15 / 16.