

Safety Data Sheet

Trade name: KRONES hydrocare 100

Current version : 1.0.0, issued: 04.06.2020

Replaced version: -, issued: -

Region: USA

SECTION 1: Identification

1.1 Product identifier

Trade name

KRONES hydrocare 100

1.2 Recommended use of the chemical and restrictions on use

Recommended use of the chemical and restrictions on use

Antiscalant

Restrictions on use

No data available.

1.3 Details of the supplier of the safety data sheet

Address

KRONES INC.
9600 SOUTH 58TH STREET
PO BOX 321801
Franklin

WI 53132-6241

Telephone no. 001-414-409-4000

Fax no. 001-414-409-4140

e-mail sales@kronesusa.com

1.4 Emergency phone number

+1 866 928 0789 (Toll free)

SECTION 2: Hazard(s) identification

2.1 Classification of the chemical

Classification information

This product is not subject to classification in accordance with paragraph (d) of 29 CFR § 1910.1200 "Hazard Communication".

2.2 Label elements

Not relevant

2.3 Labelling information

No data available

2.4 Hazards not otherwise classified (HNOC)

No data available

SECTION 3: Composition / information on ingredients

3.1 Substances

Not applicable. The product is not a substance.

3.2 Mixtures

Hazardous ingredients

No	Substance name	Concentration	%
	CAS no.		
1	[[[(phosphonomethyl)imino]bis[(ethylenenitrilo)bis(methylene)]]tetrakisphosphonic acid, sodium salt		
	22042-96-2	>= 10.00 - < 25.00	%-b.w.
2	potassium hydroxide		
	1310-58-3	< 5.00	%-b.w.

3.3 Other information

The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of 29 CFR 1910.1200

Safety Data Sheet

Trade name: KRONES hydrocare 100

Current version : 1.0.0, issued: 04.06.2020

Replaced version: -, issued: -

Region: USA

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General information

In case of persisting adverse effects, consult a physician.

After inhalation

Ensure supply of fresh air. In case of persisting adverse effects, consult a physician.

After skin contact

When in contact with the skin, clean with soap and water. Consult a doctor if skin irritation persists.

After eye contact

Remove contact lens. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Get medical attention if pain still persists.

After ingestion

Rinse mouth thoroughly with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Product itself is non-combustible; use fire extinguishing measures in surrounding areas as necessary.

Unsuitable extinguishing media

Full water jet

5.2 Specific hazards arising from the chemical

In the event of fire, the following can be released: Carbon monoxide and carbon dioxide; Nitrogen oxides (NO_x); Phosphorus oxides

5.3 Special protective equipment and precautions for fire-fighters

Use self-contained breathing apparatus. Wear protective clothing. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation.

For emergency responders

Personal protective equipment (PPE) - see Section 8.

6.2 Methods and materials for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in suitable container for disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Precautions for safe handling

Risks inherent to handling the product must be minimised by applying appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances. Provide good ventilation of working area (local exhaust ventilation if necessary).

General protective and hygiene measures

Safety Data Sheet

Trade name: KRONES hydrocare 100

Current version : 1.0.0, issued: 04.06.2020

Replaced version: -, issued: -

Region: USA

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Do not inhale vapours.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place.

Requirements for storage rooms and vessels

Containers which are opened must be carefully resealed and kept upright to prevent leakage. Always keep in containers of same material as the original.

Incompatible products

Substances to be avoided: see chapter 10. Do not store together with metals.

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Occupational exposure limit(s)

No	Substance name	CAS no.
1	potassium hydroxide	1310-58-3
ACGIH Threshold Limit Values		
Potassium hydroxide		
	STEL	C 2 mg/m ³

8.2 Exposure controls

Appropriate engineering controls

Provide good ventilation of working area (local exhaust ventilation if necessary).

Individual protection measures, such as personal protective equipment

Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Eye / face protection

Safety glasses

Hand protection

In case of intensive contact wear protective gloves. Before use, the protective glove should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material butyl rubber

Material thickness > 0.11 mm

Breakthrough time > 240 min

Other protection measures

Chemical-resistant work clothes.

SECTION 9: Physical and chemical properties

Form/Color

liquid

brown

Odor

characteristic

Odor threshold

No data available

pH value

Value 4.8 - 5.2

Safety Data Sheet

Trade name: KRONES hydrocare 100

Current version : 1.0.0, issued: 04.06.2020

Replaced version: -, issued: -

Region: USA

Boiling point / boiling range		
Value	appr.	100 °C
Melting point / melting range		
Value	<	0 °C
Decomposition point / decomposition range		
No data available		
Flash point		
No data available		
Auto-ignition temperature		
No data available		
Oxidising properties		
not oxidizing		
Explosive properties		
No data available		
Flammability (solid, gas)		
No data available		
Lower flammability or explosive limits		
No data available		
Upper flammability or explosive limits		
No data available		
Vapor pressure		
No data available		
Vapor density		
No data available		
Evaporation rate		
No data available		
Relative density		
Value		1.17
Density		
No data available		
Solubility in water		
Remarks		soluble
Solubility(ies)		
No data available		
Partition coefficient: n-octanol/water		
No data available		
Viscosity		
No data available		
Other information		
Other information		
No data available.		

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable at ambient temperature.

10.2 Chemical stability

Stable under recommended storage and handling conditions(See section 7).

Safety Data Sheet

Trade name: KRONES hydrocare 100

Current version : 1.0.0, issued: 04.06.2020

Replaced version: -, issued: -

Region: USA

10.3 Possibility of hazardous reactions

Dangerous reactions are not to be expected when handling product according to its intended use.

10.4 Conditions to avoid

High temperatures.

10.5 Incompatible materials

Metals

10.6 Hazardous decomposition products

No data available.

SECTION 11: Toxicological information

Information on toxicological effects

Acute oral toxicity (result of the ATE calculation for the mixture)	
Remarks	The result of the applied additivity formula according to CFR (Code of Federal Regulations), Title 29, §1910.1200 "Hazard Communication", section A.1.3 is outside the values that imply a classification / labelling of this mixture according to table A.1.1 defining the respective categories (ATE oral > 2000 mg/kg).

Acute oral toxicity			
No	Substance name	CAS no.	
1	potassium hydroxide	1310-58-3	
LD50		333	mg/kg bodyweight
Species	rat		
Method	OECD 425		
Source	ECHA		

Acute dermal toxicity	
No data available	

Acute inhalational toxicity	
No data available	

Skin corrosion/irritation	
No	Product name
1	KRONES hydrocare 100
Evaluation	non-irritant

Serious eye damage/irritation	
No	Product name
1	KRONES hydrocare 100
Evaluation	non-irritant

Respiratory or skin sensitisation	
No data available	

Germ cell mutagenicity	
No data available	

Reproduction toxicity	
No data available	

Carcinogenicity	
No data available	

NTP Report on Carcinogens (RoC)	
According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) listed "known" (to be a human carcinogen) or "RAHC" (reasonably anticipated to be a human carcinogen).	

Safety Data Sheet

Trade name: KRONES hydrocare 100

Current version : 1.0.0, issued: 04.06.2020

Replaced version: -, issued: -

Region: USA

OSHA Standards listing cancer as a health effect (Table VII.6.2)
According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) listed as carcinogenic.
IARC Monographs on the Evaluation of Carcinogenic Risks to Humans
According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) classified by the IARC Monographs.
STOT - single exposure
No data available
STOT - repeated exposure
No data available
Aspiration hazard
No data available

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish (acute)
No data available
Toxicity to fish (chronic)
No data available
Toxicity to Daphnia (acute)
No data available
Toxicity to Daphnia (chronic)
No data available
Toxicity to algae (acute)
No data available
Toxicity to algae (chronic)
No data available

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Other adverse effects

No data available.

12.6 Other information

Other information
Do not discharge product unmonitored into the environment.

SECTION 13: Disposal considerations

13.1 Disposal considerations

Product

Dispose in accordance with federal, state and local regulations.

Packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in accordance with federal, state and local regulations.

Safety Data Sheet

Trade name: KRONES hydrocare 100

Current version : 1.0.0, issued: 04.06.2020

Replaced version: -, issued: -

Region: USA

SECTION 14: Transport information

14.1 US DOT (Department of Transportation)

The product is not subject to DOT regulations.

14.2 Transport IMDG

The product is not subject to IMDG regulations.

14.3 Transport ICAO-TI / IATA

The product is not subject to ICAO-TI / IATA regulations.

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, pls. see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not relevant

SECTION 15: Regulatory information

15.1 US Federal Regulations

Toxic Substances Control Act (TSCA)

According to the data available and/or specifications supplied by upstream suppliers, all components of this product are on the TSCA Inventory or are exempted from notification requirements.

CERCLA (Comprehensive Environmental Response, Compensation and Liability Act)

The product contains following substance(s) that are considered being subject to Table 302.4 "List of Hazardous Substances and Reportable Quantities"

No	Substance name	CAS no.
1	potassium hydroxide	1310-58-3

Clean Air Act (CAA): Hazardous Air Pollutants (HAPS)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) that are considered being "Hazardous Air Pollutants".

Clean Water Act (CWA) Section 307 (Toxic Pollutants) and Section 311 (Hazardous Substances)

The product contains following substance(s) that are considered being "Hazardous Substances".

No	Substance name	CAS no.
1	potassium hydroxide	1310-58-3

EPCRA SARA Section 313, Toxic Chemical Release Inventory

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) that are considered being subject to "SARA Reporting".

Emergency Planning & Community Right-to-Know Act (EPCRA) - Sections 302 and 304

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) that are considered being subject to reporting requirements.

Clean Air Act (CAA) - Section 602 Ozone depleting substances

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) listed as ozone depleting substance.

15.2 US State Regulations

Pennsylvania State Right to Know Hazardous Substance List

The product contains following substance(s) that are considered being "Hazardous Substances".

No	Substance name	CAS no.
1	potassium hydroxide	1310-58-3

New Jersey State Right to Know Hazardous Substance List

The product contains following substance(s) that are considered being "Hazardous Substances".

Safety Data Sheet

Trade name: KRONES hydrocare 100

Current version : 1.0.0, issued: 04.06.2020

Replaced version: -, issued: -

Region: USA

No	Substance name	CAS no.
1	potassium hydroxide	1310-58-3

Massachusetts State Right to Know Hazardous Substance List

The product contains following substance(s) that are considered being "Hazardous Substances".

No	Substance name	CAS no.
1	potassium hydroxide	1310-58-3

Right to Know - California State - Proposition 65

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) that are considered being "Hazardous Substances".

SECTION 16: Other information, including date of preparation or last revision

16.1 Other information

No data available.

16.2 Date of preparation/revision of the SDS

Current version 1.0.0 04.06.2020

Replaced version - -

16.3 Department issuing safety data sheet

UMCO GmbH - D-21107 Hamburg, Georg-Wilhelm-Strasse 187, Tel.: +49(40)555 546 300, Fax: +49(40)555 546 357, e-mail: umco@umco.de

16.4 Conclusions

This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not, however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

Document protected by copyright. Alterations or reproductions require the express written permission of UMCO GmbH.

Prod-ID 760656

16.5 Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists
ATE - Acute Toxicity Estimate
BOD - Biochemical Oxygen Demand
CA/MA/MN/NJ/PA - California/Massachusetts/Minnesota/New Jersey/Pennsylvania
CAS - Chemical Abstracts Service
CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act
CFR - Code of Federal Regulations (US)
CLP - Classification, Labelling, and Packaging
DOT - Department of Transportation Commission
ECHA - European Chemicals Agency
EC / EL - Effective Concentration / Effective Loading
EPA - Environmental Protection Agency
IARC - International Agency for Research on Cancer
IATA - International Air Transport Association
IBC - Intermediate Bulk Container
ICAO - International Civil Aviation Organization
IDL - Ingredient Disclosure List
IDLH - Immediately Dangerous to Life and Health
IMDG - International Maritime Dangerous Goods
IUCLID - International Uniform Chemical Information Database
Kow - Octanol/water partition coefficient
LD/LC - Lethal Dose/ Lethal Concentration
MARPOL - Marine Pollution
MEL - Maximum Exposure Limits
NFPA - National Fire Protection Agency
NIOSH - National Institute for Occupational Safety and Health

Safety Data Sheet

Trade name: KRONES hydrocare 100

Current version : 1.0.0, issued: 04.06.2020

Replaced version: -, issued: -

Region: USA

NJTSR - New Jersey Trade Secret Registry
NOEL/NOEC – No Observed Effect Level / No Observed Effect Concentration
NTP - National Toxicology Program
OSHA - Occupational Safety and Health Administration
PEL- Permissible Exposure Limit
RCRA - Resource Conservation and Recovery Act
SARA - Superfund Amendments and Reauthorization Act
STEL - Short-term Exposure Limit
STOT – Specific Target Organ Toxicity
TDG - Transportation of Dangerous Goods
TLV - Threshold Limit Value
TSCA - Toxic Substances Control Act
TWA - Time Weighted Average
UN/NA - United Nations /North American
US - United States
VLE - Exposure Limit Value (Mexico)
VOC – Volatile Organic Compounds