

KRONES colclean IC 1003

Safety Data Sheet

According to Hazardous Substances and New Organisms Act 1996 & Hazardous Substances (Safety Data Sheets) Notice 2017

Date of issue: 18/12/2019

Revision date: 24/04/2020

:

Version: 1.1

SECTION 1: Identification

1.1. GHS Product identifier

Product form : Mixture
Trade name : KRONES colclean IC 1003

1.2 Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Recommended use : Used as detergent
Restrictions on use : No information available

1.4. Supplier's details

Supplier

KIC KRONES Internationale Cooperationsgesellschaft mbH
Böhmerwaldstraße 5
93073 Neutraubling
Germany
T +49-9401-70-3020
F +49-9401-70-3696
kic@kic-krones.com

Importer

KRONES New Zealand Limited
Unit M/ 218 Marua Road, Mount Wellington
1051 Auckland
New Zealand
T +64 9 572 8148
david.boekemann@krones.net.au

1.5. Emergency phone number

Emergency number : +64 9 929 1483 (NCEC, National Chemical Emergency Service)
0800 446 881 (toll-free number, access from New Zealand only)

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

Corrosive to metals, Category 1	H290
Acute toxicity (oral), Category 4	H302
Acute toxicity (dermal), Category 5	H313
Skin corrosion/irritation, Category 1B	H314
Serious eye damage/eye irritation, Category 1	H318
Hazardous to the aquatic environment — Acute Hazard, Category 3	H402

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects : Sodium hydroxide: Harmful to terrestrial vertebrates

2.2. GHS Label elements, including precautionary statements

Labelling according to the United Nations GHS

Hazard pictograms (GHS NZ) :



GHS05

GHS07

Signal word (GHS NZ) : Danger

Hazard statements (GHS NZ) : H290 - May be corrosive to metals.
H302 - Harmful if swallowed.
H313 - May be harmful in contact with skin.
H314 - Causes severe skin burns and eye damage.
H402 - Harmful to aquatic life.

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Precautionary statements (GHS NZ)	: P234 - Keep only in original packaging. P260 - Do not breathe dust/fume/gas/mist/vapours/spray. P264 - Wash thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P301+P312 - IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water . P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER/doctor. P321 - Specific treatment see this label. P330 - Rinse mouth. P363 - Wash contaminated clothing before reuse. P390 - Absorb spillage to prevent material damage. P405 - Store locked up. P406 - Store in a corrosive resistant/... container with a resistant inner liner. P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.
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2.3. Other hazards which do not result in classification

Other hazards not contributing to the classification : No information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
Sodium hydroxide	(CAS-No.) 1310-73-2	>= 30.00 - < 50.00
1,2,4-Butanetricarboxylic acid, 2-phosphono-	(CAS-No.) 37971-36-1	< 10.00

SECTION 4: First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures general	: Take off immediately all contaminated clothing and wash it before reuse. In case of doubt or persistent symptoms, consult always a physician.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Do not apply mouth-to-mouth resuscitation. In case of doubt or persistent symptoms, consult always a physician.
First-aid measures after skin contact	: Wash immediately with plenty of soap and water. Immediately call a POISON CENTER/doctor.
First-aid measures after eye contact	: Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
First-aid measures after ingestion	: Rinse mouth thoroughly with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Immediately call a POISON CENTER/doctor.

4.2. Most important symptoms/effects, acute and delayed

Most Important Symptoms/Effects : Harmful if swallowed. May be harmful in contact with skin. Causes severe skin burns and eye damage.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: High volume water jet.

5.2. Specific hazards arising from the chemical

Fire hazard : Thermal decomposition generates toxic vapours: carbon oxides, phosphorus oxides.

5.3. Special protective actions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Protective equipment : Wear personal protective equipment.
- Emergency procedures : Remove person to uncontaminated area. Ventilate spillage area. Remove all sources of ignition. Spilled material may present a slipping hazard.

6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment. Do not discharge into drains or rivers. Advise local authorities if considered necessary.

6.3. Methods and materials for containment and cleaning up

- For containment : Collect spillage.
- Methods for cleaning up : Take up liquid spill into absorbent material. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
- Other information : Dispose of materials or solid residues at an authorized site.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from food and drink. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Hygiene measures : Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feeding stuffs. Do not inhale vapour. Always wash hands after handling the product. Avoid contact with skin, eyes and clothing. Remove contaminated clothes.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep container tight closed. Store in a well-ventilated place. Keep cool.
- Storage area : Containers which are opened should be properly resealed and kept upright to prevent leakage. Keep only in original container. Protect from heat and direct sunlight.
- Incompatible products : Oxidizing agent, acids, metals.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Sodium hydroxide (1310-73-2)

Austria - Occupational Exposure Limits

MAK (mg/m³) 2 mg/m³ (inhalable fraction)

MAK Short time value (mg/m³) 4 mg/m³ (inhalable fraction)

Bulgaria - Occupational Exposure Limits

OEL TWA (mg/m³) 2 mg/m³ (alkaline aerosols)

Croatia - Occupational Exposure Limits

KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m³) 2 mg/m³

Czech Republic - Occupational Exposure Limits

Expoziční limity (PEL) (mg/m³) 1 mg/m³

Denmark - Occupational Exposure Limits

Grænseværdie (ceiling) (mg/m³) 2 mg/m³

Estonia - Occupational Exposure Limits

OEL TWA (mg/m³) 1 mg/m³

OEL STEL (mg/m³) 2 mg/m³

Finland - Occupational Exposure Limits

OEL Ceiling (mg/m³) 2 mg/m³

France - Occupational Exposure Limits

VME (mg/m³) 2 mg/m³

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Greece - Occupational Exposure Limits	
OEL TWA (mg/m ³)	2 mg/m ³
OEL STEL (mg/m ³)	2 mg/m ³
Hungary - Occupational Exposure Limits	
AK-érték	2 mg/m ³
CK-érték	2 mg/m ³
Ireland - Occupational Exposure Limits	
OEL (15 min ref) (mg/m ³)	2 mg/m ³
Latvia - Occupational Exposure Limits	
OEL TWA (mg/m ³)	0.5 mg/m ³
Lithuania - Occupational Exposure Limits	
NRV (mg/m ³)	2 mg/m ³
Poland - Occupational Exposure Limits	
NDS (mg/m ³)	0.5 mg/m ³
NDSCh (mg/m ³)	1 mg/m ³
Portugal - Occupational Exposure Limits	
OEL - Ceilings (mg/m ³)	2 mg/m ³
Slovakia - Occupational Exposure Limits	
NPHV (priemerná) (mg/m ³)	2 mg/m ³
Slovenia - Occupational Exposure Limits	
OEL TWA (mg/m ³)	2 mg/m ³ (inhalable fraction)
OEL STEL (mg/m ³)	2 mg/m ³ (inhalable fraction)
Spain - Occupational Exposure Limits	
VLA-EC (mg/m ³)	2 mg/m ³
Sweden - Occupational Exposure Limits	
nivågränsvärde (NVG) (mg/m ³)	1 mg/m ³ (inhalable dust)
kortidsvärde (KTV) (mg/m ³)	2 mg/m ³ (inhalable dust)
United Kingdom - Occupational Exposure Limits	
WEL STEL (mg/m ³)	2 mg/m ³
Norway - Occupational Exposure Limits	
Grønseverdier (Takverdi) (mg/m ³)	2 mg/m ³
Switzerland - Occupational Exposure Limits	
MAK (mg/m ³)	2 mg/m ³ (inhalable dust)
KZGW (mg/m ³)	2 mg/m ³ (inhalable dust)
USA - ACGIH - Occupational Exposure Limits	
ACGIH Ceiling (mg/m ³)	2 mg/m ³

8.2. Appropriate engineering controls

- Appropriate engineering controls : Ensure good ventilation of the work station. In case of inadequate ventilation wear respiratory protection.
- Environmental exposure controls : Avoid release to the environment.

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8.3. Individual protection measures, such as personal protective equipment (PPE)

Hand protection	: Protective gloves. EN 374. Appropriate material: Viton. Material thickness: ≥ 0.4 mm Breakthrough time: > 480 min Appropriate material: Butyl rubber. Material thickness: ≥ 0.5 mm Breakthrough time: > 480 min Appropriate material: PVC. Material thickness: ≥ 0.5 mm Breakthrough time: > 480 min
Eye protection	: Safety glasses with side shields (EN 166)
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment Respirator: B-P3

8.4. Exposure limit values for the other components

No additional information available

SECTION 9: Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid
Colour	: Yellowish.
Odour	: Odourless.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: Not available
Boiling point	: Not available
Flammability (solid, gas)	: Non flammable
Explosive limits	: Not available
Lower explosive limit (LEL)	: Not available
Upper explosive limit (UEL)	: Not available
Flash point	: Not available
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: 13
pH solution	: Not available
Viscosity, kinematic (calculated value) (40 °C)	: Not available
Log Kow	: Not available
Vapour pressure	: Not available
Vapour pressure at 50 °C	: Not available
Density	: Not available
Relative density	: 1.45
Relative vapour density at 20 °C	: Not available
Solubility	: Miscible with water.
Viscosity, dynamic	: Not available
Explosive properties	: Not available
Oxidising properties	: Not available

9.2. Data relevant with regard to physical hazard classes (supplemental)

Additional information : No additional information available

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SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Incompatible materials.

10.5. Incompatible materials

Oxidizing agent, acids, metals.

10.6. Hazardous decomposition products

Phosphorus oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Harmful if swallowed.
Acute toxicity (dermal) : May be harmful in contact with skin.
Acute toxicity (inhalation) : Not classified

Sodium hydroxide (1310-73-2)	
LD50 oral rat	140 - 340 mg/kg
LD50 dermal rabbit	1350 mg/kg
1,2,4-Butanetricarboxylic acid, 2-phosphono- (37971-36-1)	
LD50 oral rat	> 4000 mg/kg
LD50 dermal rat	> 4000 mg/kg
LC50 inhalation rat (mg/l)	> 1979 mg/m ³ (Exposure time: 4 h)

Skin corrosion/irritation : Causes severe skin burns and eye damage.
pH: 13
Serious eye damage/irritation : Causes serious eye damage.
pH: 13
Respiratory or skin sensitisation : Sodium hydroxide: human, skin, non-sensitizing (ECHA)
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Harmful to aquatic life. Harmful to terrestrial vertebrates.
Acute aquatic toxicity : Harmful to aquatic life.
Chronic aquatic toxicity : Not classified

Sodium hydroxide (1310-73-2)	
EC50 48h daphnia	40.4 mg/l (Ceriodaphnia spec) (ECHA)

1,2,4-Butanetricarboxylic acid, 2-phosphono- (37971-36-1)

EC50 72h algae	140 mg/l (Species: Desmodemus subspicatus)
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12.2. Persistence and degradability

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Persistence and degradability	No information available.

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12.3. Bioaccumulative potential

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Bioaccumulative potential	No information available.
1,2,4-Butanetricarboxylic acid, 2-phosphono- (37971-36-1)	
BCF fish 1	No bioaccumulation expected

12.4. Mobility in soil

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Mobility in soil	No additional information available

12.5. Other adverse effects

Ozone	: Not classified
Other adverse effects	: No additional information available




SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods	: Dispose of according to all applicable regulations upon consultation of the local competent authorities and the disposer in a suitable and authorised disposal facility. Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.
Product/Packaging disposal recommendations	: 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 the form of disposal specified by the regional disposer.

SECTION 14: Transport information

In accordance with IMDG / IATA / UN RTDG

UN RTDG	IMDG	IATA
14.1. UN number		
1824	1824	1824
14.2. UN Proper Shipping Name		
SODIUM HYDROXIDE SOLUTION	SODIUM HYDROXIDE SOLUTION	Sodium hydroxide solution
14.3. Transport hazard class(es)		
8	8	8
		
14.4. Packing group		
II	II	II
14.5. Environmental hazards		
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No
No supplementary information available		

14.6. Special precautions for user

- UN RTDG	
Limited quantities (UN RTDG)	: 1L
Excepted quantities (UN RTDG)	: E2
Packing instruction (UN RTDG)	: P001, IBC02
Portable tank and bulk container special instructions (UN RTDG)	: T7

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Portable tank and bulk container special provisions (UN RTDG)	: TP2
- IMDG	
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T7
Tank special provisions (IMDG)	: TP2
EmS-No. (Fire)	: F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
EmS-No. (Spillage)	: S-B - SPILLAGE SCHEDULE Bravo - CORROSIVE SUBSTANCES
Stowage category (IMDG)	: A
Properties and observations (IMDG)	: Colourless liquid. Colourless liquid. Reacts with ammonium salts, evolving ammonia gas. Causes burns to skin, eyes and mucous membranes. Reacts violently with acids.
- IATA	
PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y840
PCA limited quantity max net quantity (IATA)	: 0.5L
PCA packing instructions (IATA)	: 851
PCA max net quantity (IATA)	: 1L
CAO packing instructions (IATA)	: 855
CAO max net quantity (IATA)	: 30L
Special provisions (IATA)	: A3, A803
ERG code (IATA)	: 8L

14.7. Transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations specific for the product in question

New Zealand

HSNO approval number:	
Cleaning Products (Corrosive) Group Standard 2017 HSR002526	
CAS# 1310-73-2	HSR001547
CAS# 37971-36-1	HSR004240

National regulations

Sodium hydroxide (1310-73-2)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
1,2,4-Butanetricarboxylic acid, 2-phosphono- (37971-36-1)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Sodium hydroxide (1310-73-2)
Listed on the Canadian DSL (Domestic Substances List)
1,2,4-Butanetricarboxylic acid, 2-phosphono- (37971-36-1)
Listed on the Canadian DSL (Domestic Substances List)
Sodium hydroxide (1310-73-2)
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Japanese Poisonous and Deleterious Substances Control Law
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
1,2,4-Butanetricarboxylic acid, 2-phosphono- (37971-36-1)
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on the TCSI (Taiwan Chemical Substance Inventory)

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SECTION 16: Other information

Date of issue : 18/12/2019
Revision date : 24/04/2020

Indication of changes:

No information available.

Data sources : ECHA. Loli.
Abbreviations and acronyms : ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road
EC50 - Median effective concentration
IATA - International Air Transport Association
IMDG - International Maritime Dangerous Goods
LC50 - Median lethal concentration
LD50 - Median lethal dose
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS - Safety Data Sheet

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging.

Other information : No information available

Full text of H-statements:

H290	May be corrosive to metals
H302	Harmful if swallowed
H313	May be harmful in contact with skin
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H402	Harmful to aquatic life

SDS NZ

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.