

KRONES colclean IC 3002

Safety Data Sheet

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

Date of issue: 12/02/2020

Revision date: 12/02/2020

:

Version: 1.0

SECTION 1: Identification

1.1. GHS Product identifier

Product form : Mixture
Trade name : KRONES colclean IC 3002

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture : Used as cleaning compound
Recommended use : No information available

1.4. Supplier's details

Supplier

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

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 (inhal.), Category 2 H330
Skin corrosion/irritation, Category 1A H314
Serious eye damage/eye irritation, Category 1 H318
Specific target organ toxicity — Single exposure, Category 2 H371
Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects : Phosphoric acid: Harmful to terrestrial vertebrates

2.2. GHS Label elements, including precautionary statements

Labelling according to the United Nations GHS

Hazard pictograms (GHS NZ) :



GHS05

GHS06

GHS08

Signal word (GHS NZ) :

: Danger

Hazard statements (GHS NZ) :

: H290 - May be corrosive to metals
H314 - Causes severe skin burns and eye damage
H330 - Fatal if inhaled
H371 - May cause damage to organs

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.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P284 - Wear respiratory protection.
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.
P308+P311 - IF exposed or concerned: Call a POISON CENTER/doctor.

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P310 - Immediately call a POISON CENTER/doctor.
P320 - Specific treatment is urgent see this label.
P321 - Specific treatment see on this label.
P363 - Wash contaminated clothing before reuse.
P390 - Absorb spillage to prevent material damage.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
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.

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	%
Phosphoric acid	(CAS-No.) 7664-38-2	>= 10.00 - < 25.00
Nitric acid	(CAS-No.) 7697-37-2	>= 10.00 - < 25.00

Full text of H-statements: see section 16

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. Call a physician immediately.

First-aid measures after skin contact : Wash immediately with plenty of soap and water. Take off immediately all contaminated clothing. Call a physician immediately.

First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. Call a physician immediately.

First-aid measures after ingestion : Rinse mouth thoroughly with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth. Call a physician immediately.

4.2. Most important symptoms/effects, acute and delayed

Most Important Symptoms/Effects : Causes severe skin burns and eye damage. Fatal if inhaled. May cause damage to organs

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, nitrogen 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.

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. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray.

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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). Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.
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. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapours/spray.
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. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tight closed. Store in a well-ventilated place. Keep cool. Store in corrosive resistant container with a resistant inner liner. Keep only in original container. Store locked up.
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 : Metals, reducing agents, oxidizing agents, alcohols, amines, peroxides.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Phosphoric acid (7664-38-2)

EU - Occupational Exposure Limits

IOELV TWA (mg/m ³)	1 mg/m ³
IOELV STEL (mg/m ³)	2 mg/m ³

Nitric acid (7697-37-2)

EU - Occupational Exposure Limits

IOELV STEL (mg/m ³)	2.6 mg/m ³
IOELV STEL (ppm)	1 ppm

Monitoring methods

Monitoring methods	No information available
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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.

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

Hand protection : Protective gloves. EN 374.
Appropriate material: Butyl rubber.
Material thickness: ≥ 0.7 mm
Breakthrough time: > 480 min
Appropriate material: Viton.
Material thickness: ≥ 0.7 mm
Breakthrough time: > 480 min
Appropriate material: Chloroprene.
Material thickness: ≥ 0.5 mm
Breakthrough time: > 480 min
Eye protection : Safety glasses with side shields. EN 166.

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Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment. Respirator: ABEKP2 Respiratory filter (gas): ABEK

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	: Colourless.
Odour	: Characteristic.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: < 0 °C
Boiling point	: > 100 °C
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	: < 1
pH solution	: Not available
Viscosity, kinematic (calculated value) (40 °C)	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50 °C	: Not available
Density	: 1.3 g/mL (20 °C)
Relative density	: Not available
Relative vapour density at 20 °C	: Not available
Solubility	: Completely soluble.
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

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

Metals, reducing agents, oxidizing agents, alcohols, amines, peroxides.

10.6. Hazardous decomposition products

Nitrogen oxides, phosphorus oxides.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Fatal if inhaled

Phosphoric acid (7664-38-2)	
LD50 oral rat	1530 mg/kg
LD50 oral	300 - 2000 mg/kg (rat, OECD 423, ECHA)
LD50 dermal rabbit	2740 mg/kg
LC50 inhalation rat (mg/l)	> 850 mg/m ³ (Exposure time: 1 h)

Nitric acid (7697-37-2)	
LC50 inhalation rat (ppm)	2500 ppm/1h
LC50 inhalation rat (Vapours - mg/l)	0.173 mg/l (HSDB)

Skin corrosion/irritation	: Causes severe skin burns. Phosphoric acid: strongly corrosive (rabbit, ECHA) pH: < 1
Serious eye damage/irritation	: Causes serious eye damage. Phosphoric acid: strongly corrosive (rabbit, ECHA) pH: < 1
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified Phosphoric acid: Based on available data, the classification criteria are not met (ECHA).
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified Phosphoric acid: Based on available data, the classification criteria are not met (ECHA).
STOT-single exposure	: May cause damage to organs
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. Before neutralisation, the product may represent a danger to aquatic organisms.
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Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

Phosphoric acid (7664-38-2)	
EC50 48h daphnia	> 100 mg/L (Daphnia magna, OECD 202, ECHA)
EC50 72h algae	> 100 mg/L (Desmodesmus subspicatus, OECD 201, ECHA)
EC50 3h bacteria	> 1000 mg/L (activated sludge, OECD 209, ECHA)

Nitric acid (7697-37-2)	
LC50 96h fish	72 mg/L (Gambusia affinis, IUCLID 2000)

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.
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12.4. Mobility in soil

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Mobility in soil	No additional information available
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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		
2922	2922	2922
14.2. UN Proper Shipping Name		
CORROSIVE LIQUID, TOXIC, N.O.S. (Containing phosphoric acid, nitric acid)	CORROSIVE LIQUID, TOXIC, N.O.S. (Containing phosphoric acid, nitric acid)	Corrosive liquid, toxic, n.o.s. (Containing phosphoric acid, nitric acid)
14.3. Transport hazard class(es)		
8 (6.1)	8 (6.1)	8 (6.1)
14.4. Packing group		
I	I	I
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

Special provisions (UN RTDG) : 274
Limited quantities (UN RTDG) : 0
Excepted quantities (UN RTDG) : E0
Packing instruction (UN RTDG) : P001
Portable tank and bulk container special instructions (UN RTDG) : T14
Portable tank and bulk container special provisions (UN RTDG) : TP2, TP13, TP27

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- IMDG

Special provisions (IMDG)	: 274
Packing instructions (IMDG)	: P001
Tank instructions (IMDG)	: T14
Tank special provisions (IMDG)	: TP2, TP13, TP27
EmS-No. (Fire)	: F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
EmS-No. (Spillage)	: S-B - SPILLAGE SCHEDULE Bravo - CORROSIVE SUBSTANCES
Stowage category (IMDG)	: B
Properties and observations (IMDG)	: Causes burns to skin, eyes and mucous membranes. Toxic if swallowed, by skin contact or by inhalation.

- IATA

PCA Excepted quantities (IATA)	: E0
PCA Limited quantities (IATA)	: Forbidden
PCA limited quantity max net quantity (IATA)	: Forbidden
PCA packing instructions (IATA)	: 850
PCA max net quantity (IATA)	: 0.5L
CAO packing instructions (IATA)	: 854
CAO max net quantity (IATA)	: 2.5L
Special provisions (IATA)	: A3, A803
ERG code (IATA)	: 8P

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:	
CAS# 7664-38-2	HSR001545
CAS# 7697-37-2	HSR000982

National regulations

Phosphoric acid (7664-38-2)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Nitric acid (7697-37-2)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Phosphoric acid (7664-38-2)
Listed on the Canadian DSL (Domestic Substances List)
Nitric acid (7697-37-2)
Listed on the Canadian DSL (Domestic Substances List)
Phosphoric acid (7664-38-2)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Nitric acid (7697-37-2)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Phosphoric acid (7664-38-2)
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)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Nitric acid (7697-37-2)
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)

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SECTION 16: Other information

Date of issue : 12/02/2020
Revision date : 12/02/2020

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
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H330	Fatal if inhaled
H371	May cause damage to organs

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.