KRONES colclean CG 1005

Safety Data Sheet

According to the United Nations GHS (Rev. 8, 2019)

Issue date: 10/10/2020 Revision date: 21/12/2020 : Version: 1.1

SECTION 1: Identification

1.1. GHS Product identifier

Product form : Mixture

Trade name : KRONES colclean CG 1005

1.2. Other means of identification

Other means of identification : No information available

1.3. Recommended use of the chemical and restrictions on use

Recommended use : Conveyor lubricant

Restrictions on use : No information available

1.4. Supplier's details

Supplier

KIC KRONES Internationale Cooperationsgesellschaft mbH
Böhmerwaldstraße 5
93073 Neutraubling
Germany
T +49-940170-3020
F +49-940170-3696
kic@kic-krones.com

Importer

KRONES LCS Center West Africa Ltd.
Acme Road, Ogba Industrial Scheme, Plot 7A, Block C
100211 Ikeja - Lagos
Nigeria
T +234 1 463 11 30
helmut.rumm@krones.com.ng

1.5. Emergency phone number

Emergency number : +44 1235 239671 (NCEC, National Chemical Emergency Centre)

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

Serious eye damage/eye irritation, Category 1 H318

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects : Causes serious eye damage.

2.2. GHS Label elements, including precautionary statements

Labelling according to the United Nations GHS

Hazard pictograms (GHS UN) :

Signal word (GHS UN) : Danger

Hazard statements (GHS UN) : H318 - Causes serious eye damage

Precautionary statements (GHS UN) : P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
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.

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	%
1,3-Propanediamine, N-(9Z)-9-octadecenyl-	(CAS-No.) 7173-62-8	>= 5.00 - < 10.00
Alcohols, C16-18, ethoxylated	(CAS-No.) 68439-49-6	< 2.50

Formic acid	(CAS-No.) 64-18-6	< 2.50
Isopropyl alcohol	(CAS-No.) 67-63-0	< 2.50

SECTION 4: First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures general : In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

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

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

4.2. Most important symptoms/effects, acute and delayed

Most Important Symptoms/Effects : Causes serious 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 : Foam, extinguishing powder, water spray, carbon dioxide.

Unsuitable extinguishing media : High volume water jet.

5.2. Specific hazards arising from the chemical

Fire hazard : No data available.

Explosion hazard : No direct explosion hazard.

Hazardous decomposition products in case of fire : In the event of thermal decomposition: toxic fumes.

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

General measures : Remove person to uncontaminated area. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ensure adequate ventilation, especially in confined areas.

6.1.1. For non-emergency personnel

Protective equipment : Wear personal protective equipment.

Emergency procedures : Do not eat, drink or smoke during use. Wash thoroughly after handling.

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".

Emergency procedures : Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.

6.2. Environmental precautions

Avoid release to the environment. Do not allow to enter drains or water courses. Advise local authorities if considered necessary.

6.3. Methods and materials for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Absorb remaining liquid with sand or inert absorbent and remove to safe place.

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 : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ensure adequate ventilation, especially in confined areas. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.

Hygiene measures : Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Containers which are opened should be properly resealed and kept upright to prevent leakage. Keep only in original container.

Storage area : Keep cool. Store in a well-ventilated place.

Storage temperature : No information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Formic acid (64-18-6)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	9 mg/m³
IOEL TWA [ppm]	5 ppm
India - Occupational Exposure Limits	
PEL (OEL TWA)	9 mg/m³
PEL (OEL TWA) [ppm]	5 ppm
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA [ppm]	5 ppm
ACGIH OEL STEL [ppm]	10 ppm

Isopropyl alcohol (67-63-0)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA [ppm]	200 ppm
ACGIH OEL STEL [ppm]	400 ppm
ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA - ACGIH - Biological Exposure Indices	
BEI	40 mg/L Parameter: Acetone - Medium: urine - Sampling time: end of shift at end of workweek (background, nonspecific)

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station. Keep away from open flames, hot surfaces and sources of ignition.

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: > 0.11 mm
Breakthrough time: > 480 min
Appropriate material: nitrile rubber
Material thickness: > 0.11 mm
Breakthrough time: > 480 min
Appropriate material: PVC
Material thickness: > 0.11 mm
Breakthrough time: > 480 min

Eye protection : Safety glasses with side shields (EN 166)

Skin and body protection : Use chemically protective clothing

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment

Thermal hazard protection : No information available.

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	:	Characteristic.
Odour threshold	:	Not available
Melting point	:	Ca. 0 °C
Freezing point	:	Not available
Boiling point	:	Ca. 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	:	4 - 6
pH solution	:	Not available
Viscosity, kinematic	:	Not available
Viscosity, dynamic	:	Not available
Partition coefficient n-octanol/water (Log Kow)	:	1,3-Propanediamine, N-(9Z)-9-octadecenyl- (7173-62-8): 0.03 (25.7 °C, OECD 123, ECHA) Formic acid (64-18-6): -2.1 (23 °C, 92/69/EEC, A.8, ECHA) Isopropyl alcohol (67-63-0): 0.05 (25 °C, ECHA)
Vapour pressure	:	Not available
Vapour pressure at 50 °C	:	Not available
Density	:	Not available
Relative density	:	0.98
Relative vapour density at 20 °C	:	Not available
Solubility	:	Completely miscible.
Explosive properties	:	Not available
Oxidising properties	:	Not available

9.2. Data relevant with regard to physical hazard classes (supplemental)
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
None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials
No information available.

10.6. Hazardous decomposition products
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information
11.1. Information on toxicological effects
Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

1,3-Propanediamine, N-(9Z)-9-octadecenyl- (7173-62-8)	
LD50 oral rat	500 mg/kg (OECD 423, ECHA)

Alcohols, C16-18, ethoxylated (68439-49-6)	
LD50 oral rat	1260 mg/kg

Formic acid (64-18-6)	
LD50 oral rat	1100 mg/kg
LD50 oral	730 mg/kg (OECD 401, ECHA)
LC50 Inhalation - Rat	15 g/m³/15 min
LC50 Inhalation - Rat (Vapour)	7.85 mg/L/4 h (OECD 403, ECHA)

Isopropyl alcohol (67-63-0)	
LD50 oral rat	1870 mg/kg
LD50 oral	5840 mg/kg (OECD 401, ECHA)
LD50 dermal rabbit	4059 mg/kg
LC50 Inhalation - Rat	72600 mg/m³/4 h
LC50 Inhalation - Rat (Vapour)	> 10000 ppmV/6 h (OECD 403, ECHA)

Skin corrosion/irritation : Not classified
pH: 4 - 6
Based on available data, the classification criteria are not met.

Serious eye damage/irritation : Causes serious eye damage.
pH: 4 - 6

Respiratory or skin sensitisation : Not classified
Formic acid: non-sensitizing (guinea pig, OECD 406, ECHA)
Isopropyl alcohol: non-sensitizing (guinea pig, OECD 406, ECHA)

Germ cell mutagenicity : Not classified
1,3-Propanediamine, N-(9Z)-9-octadecenyl-: Based on available data, the classification criteria are not met (Salmonella typhimurium: TA 1535, TA 1537, TA 98, TA 100; Escherichia coli WP2 uvrA, OECD 471, ECHA)
Formic acid: Based on available data, the classification criteria are not met (ECHA)
Isopropyl alcohol: Based on available data, the classification criteria are not met (ECHA)

Carcinogenicity : Not classified

Reproductive toxicity : Not classified
1,3-Propanediamine, N-(9Z)-9-octadecenyl-: Based on available data, the classification criteria are not met (oral, rat, OECD 416, ECHA)

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified
Based on available data, the classification criteria are not met.

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.

Hazardous to the aquatic environment, short-term (acute) : Not classified

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

1,3-Propanediamine, N-(9Z)-9-octadecenyl- (7173-62-8)	
EC50 - Crustacea [1]	290 µg/L/48 h (Daphnia magna, OECD 211, ECHA)
EC50 72h - Algae [1]	0.32 - 1 mg/L/72 h (Desmodesmus subspicatus, OECD 201, ECHA)
NOEC chronic crustacea	100 ng/L/21 d (Daphnia magna, OECD 211, ECHA)

Formic acid (64-18-6)	
LC50 - Fish [1]	130 mg/L/96h (Danio rerio, OECD 203, ECHA)
EC50 - Crustacea [1]	120 mg/L/48 h (Daphnia magna)

EC50 - Crustacea [2]	138 - 165.6 mg/L/48 h (Daphnia magna)
EC50 - Other aquatic organisms [1]	365 mg/L/48 h (Daphnia magna, OECD 202, ECHA)
EC50 72h - Algae [1]	26.9 mg/L (Desmodesmus subspicatus)
EC50 72h - Algae [2]	> 1000 mg/L/72 h (Desmodesmus subspicatus, OECD 201, ECHA)
EC50 96h - Algae [1]	25 mg/L (Desmodesmus subspicatus)
NOEC chronic crustacea	≥ 100 mg/L/21 d (Daphnia magna, OECD 211, ECHA)

Isopropyl alcohol (67-63-0)	
LC50 - Fish [1]	9640 mg/L/96 h (Pimephales promelas)
LC50 - Fish [2]	11130 mg/L/96 h (Pimephales promelas)
EC50 - Crustacea [1]	13299 mg/L/48 h (Daphnia magna)
EC50 72h - Algae [1]	> 1000 mg/L (Desmodesmus subspicatus)
EC50 96h - Algae [1]	> 1000 mg/L (Desmodesmus subspicatus)

12.2. Persistence and degradability

Formic acid (64-18-6)	
Persistence and degradability	Readily biodegradable.
Biodegradation	100 % (14 d, OECD 301 C, ECHA)

Isopropyl alcohol (67-63-0)	
Persistence and degradability	Readily biodegradable.
Biodegradation	53 % (5 d, ECHA)

12.3. Bioaccumulative potential

1,3-Propanediamine, N-(9Z)-9-octadecenyl- (7173-62-8)	
Partition coefficient n-octanol/water (Log Kow)	0.03 (25.7 °C, OECD 123, ECHA)

Formic acid (64-18-6)	
BCF - Fish [1]	0.22
Partition coefficient n-octanol/water (Log Kow)	-2.1 (23 °C, 92/69/EEC, A.8, ECHA)

Isopropyl alcohol (67-63-0)	
Partition coefficient n-octanol/water (Log Kow)	0.05 (25 °C, ECHA)

12.4. Mobility in soil

Formic acid (64-18-6)	
Partition coefficient n-octanol/water (Log Koc)	< 1.25 (23 °C, OECD 121, ECHA)

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 contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging disposal recommendations : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with UN RTDG / IMDG / IATA

UN RTDG	IMDG	IATA
14.1. UN number		
Not regulated for transport		

14.2. UN Proper Shipping Name		
Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)		
Not applicable	Not applicable	Not applicable
14.4. Packing group		
Not applicable	Not applicable	Not applicable
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
No data available

- IMDG
No data available

- IATA
No data available

14.7. Transport in bulk according to IMO instruments

1,3-Propanediamine, N-(9Z)-9-octadecenyl- (7173-62-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on the Canadian DSL (Domestic Substances List)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
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 KECL/KECI (Korean Existing Chemicals Inventory)
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)

Alcohols, C16-18, ethoxylated (68439-49-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on the Canadian DSL (Domestic Substances List)
Listed on the EU NLP (No Longer Polymers) inventory
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the TCSI (Taiwan Chemical Substance Inventory)

Formic acid (64-18-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on the Canadian DSL (Domestic Substances List)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
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 KECL/KECI (Korean Existing Chemicals Inventory)
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)

Isopropyl alcohol (67-63-0)
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on the Canadian DSL (Domestic Substances List) Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) 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 KECL/KECI (Korean Existing Chemicals Inventory) 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)

SECTION 15: Regulatory information

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

No additional information available

SECTION 16: Other information

Issue date : 10/10/2020
Revision date : 21/12/2020

Indication of changes:
No information available.

Abbreviations and acronyms : LC50 - Median lethal concentration
LD50 - Median lethal dose
EC50 - Median effective concentration
NOEC - No-Observed Effect Concentration
IARC - International Agency for Research on Cancer
IATA - International Air Transport Association
IMDG - International Maritime Dangerous Goods

Data sources : ECHA. LOLI.

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:	
H318	Causes serious eye damage

Safety Data Sheet (SDS), UN

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.