

SECTION 1: Identification of the substance/mixture and of the company/undertaking
1.1 Product identifier

KRONES colclean AD 2001
Article number: 0903203870, 0903203876, 0903203880

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

Cleaning agent

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company KIC KRONES Internationale Cooperationsgesellschaft mbH
 Böhmerwaldstraße 5
 93073 Neutraubling / GERMANY
 Phone +49 9401 70-3020
 Fax +49 9401 70-3696
 Homepage www.kic-krones.com
 E-mail kic@kic-krones.com

Address enquiries to

Technical information kic@kic-krones.com

Safety Data Sheet sdb@chemiebueero.de

1.4 Emergency telephone number

Advisory body +49 (0)89-19240 (24h) (english)

SECTION 2: Hazards identification
2.1 Classification of the substance or mixture

Acute Tox. 4: H302 Harmful if swallowed.
 Eye Dam. 1: H318 Causes serious eye damage.

2.2 Label elements

The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (CLP).

Hazard pictograms

Signal word

DANGER

Contains:

2-Propylheptanol ethoxylate (5 EO)

Hazard statements

H302 Harmful if swallowed.
 H318 Causes serious eye damage.

Precautionary statements

P280 Wear eye protection / face 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.

Cleaner, 648/2004/CE, contains:

>=30% non-ionic surfactants

2.3 Other hazards
Human health dangers

If swallowed or in the event of vomiting, risk of product entering the lungs.

Other hazards

Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

Product-type:

The product is a mixture.

| Range [%] | Substance |
|------------|--|
| 80 - < 100 | 2-Propylheptanol ethoxylate (5 EO) |
| | CAS: 160875-66-1 |
| | GHS/CLP: Eye Dam. 1: H318 - Acute Tox. 4: H302 |
| 20 - < 30 | 2-Propylheptanol ethoxylate (3,5 EO) |
| | CAS: 160875-66-1 |
| | GHS/CLP: Eye Irrit. 2: H319 |

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
All chemical substances in this material are included on or exempted from listing on the TSCA Inventory.
For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Take off contaminated clothing and wash before reuse.

Inhalation

Ensure supply of fresh air.
In the event of symptoms seek medical treatment.

Skin contact

In case of contact with skin wash off immediately with plenty of water.
Consult a doctor if skin irritation persists.

Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Consult a doctor immediately.

Ingestion

Do not induce vomiting.
Rinse out mouth and give plenty of water to drink.
Get medical advice.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.
If swallowed or in the event of vomiting, risk of product entering the lungs.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

foam, dry powder, water spray jet, carbon dioxide

Extinguishing media that must not be used

Full water jet

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.
Carbon monoxide (CO)
Carbon dioxide (CO₂)

5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.
Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.
Wear suitable protective equipment. For personal protection see SECTION 8.
High risk of slipping due to leakage/spillage of product.

6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).
Do not discharge into the drains/surface waters/groundwater.
In case the product spills into drains/surface waters/groundwater, immediately inform the authorities.

6.3 Methods and material for containment and cleaning up

Pick up with absorbent material (e.g. sand, universal absorbent, diatomaceous earth).
Dispose of absorbed material in accordance with the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.
Avoid spilling or spraying in enclosed areas.
Avoid contact with eyes and skin. Use personal protective equipment.
Take precautionary measures against static discharges.
The product is combustible.
Do not eat, drink or smoke when using this product.
Take off contaminated clothing and wash before reuse.
Wash hands before breaks and after work.
Use barrier skin cream.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.
Prevent penetration into the ground.

Keep container tightly closed.
Keep container in a well-ventilated place.
Protect from heat/overheating.
Store in a dry place.

7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

not applicable

8.2 Exposure controls

| | |
|--|--|
| Additional advice on system design | Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances. |
| Eye protection | Tightly fitting goggles. (EN 166:2001) |
| Hand protection | The details concerned are recommendations. Please contact the glove supplier for further information. > 0,11 mm, Nitrile rubber, >480 min (EN 374-1/-2/-3). > 0,11 mm, Neoprene, >480 min (EN 374-1/-2/-3). |
| Skin protection | Protective clothing. |
| Other | Avoid contact with eyes and skin. Do not breathe vapour/spray. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier. |
| Respiratory protection | If ventilation is insufficient, wear respiratory protection. Short term: filter apparatus, filter A. (DIN EN 14387) |
| Thermal hazards | not applicable |
| Delimitation and monitoring of the environmental exposition | Protect the environment by applying appropriate control measures to prevent or limit emissions. |

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|--|-------------------------------------|
| Form | liquid |
| Color | clear colourless |
| Odor | odourless |
| Odour threshold | No information available. |
| pH-value | No information available. |
| pH-value [1%] | 5 - 8 |
| Boiling point [°C] | > 100 |
| Flash point [°C] | 100 - 199 (closed cup) |
| Flammability (solid, gas) [°C] | not applicable |
| Lower explosion limit | No information available. |
| Upper explosion limit | No information available. |
| Oxidising properties | no |
| Vapour pressure/gas pressure [kPa] | No information available. |
| Density [g/ml] | ca. 0,97 (20 °C / 68,0 °F) |
| Bulk density [kg/m³] | not applicable |
| Solubility in water | dispersible |
| Partition coefficient [n-octanol/water] | No information available. |
| Viscosity | 30 mPas (20 °C) 31 mm²/s (20 °C) |
| Relative vapour density determined in air | No information available. |
| Evaporation speed | No information available. |
| Melting point [°C] | No information available. |
| Autoignition temperature [°C] | No information available. |
| Decomposition temperature [°C] | No information available. |

9.2 Other information

Ignition Temperature: > 100 °C
Pour point: -9 °C
Refractive index: 1,452
Cloudiness: 42 °C (DIN EN 1890 / E)

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

No dangerous reactions known if used as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

| |
|--|
| Product |
| ATE-mix, oral, ca. 625 mg/kg. |
| Substance |
| 2-Propylheptanol ethoxylate (5 EO), CAS: 160875-66-1 |
| LD50, oral, Rat: > 300 - 2000 mg/kg. |
| ATE, oral, 500 mg/kg. |
| 2-Propylheptanol ethoxylate (3,5 EO), CAS: 160875-66-1 |
| LD50, dermal, > 2000 - 5000 mg/kg. |
| LC50, inhalative, > 20,1 mg/l. |

| | |
|---|--|
| Serious eye damage/irritation | Risk of serious damage to eyes. Calculation method |
| Skin corrosion/irritation | Based on the available information, the classification criteria are not fulfilled. |
| Respiratory or skin sensitisation | Based on the available information, the classification criteria are not fulfilled. |
| Specific target organ toxicity — single exposure | Based on the available information, the classification criteria are not fulfilled. |
| Specific target organ toxicity — repeated exposure | Based on the available information, the classification criteria are not fulfilled. |
| Mutagenicity | Based on the available information, the classification criteria are not fulfilled. |
| Reproduction toxicity | Based on the available information, the classification criteria are not fulfilled. |
| Carcinogenicity | Based on the available information, the classification criteria are not fulfilled. |
| Aspiration hazard | Based on the available information, the classification criteria are not fulfilled. |
| General remarks | |

The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

SECTION 12: Ecological information

12.1 Toxicity

| |
|--|
| Substance |
| 2-Propylheptanol ethoxylate (5 EO), CAS: 160875-66-1 |
| LC50, (96h), Oncorhynchus mykiss: > 10 - 100 mg/l. |
| EC50, (72h), Algae: > 10 - 100 mg/l. |
| EC50, (48h), Daphnia magna: > 10 - 100 mg/l. |
| 2-Propylheptanol ethoxylate (3,5 EO), CAS: 160875-66-1 |
| LC50, (96h), Oncorhynchus mykiss: > 1 - 10 mg/l. |
| EC50, (72h), Scenedesmus subspicatus: > 10 - 100 mg/l. |
| EC50, (48h), Daphnia magna: > 1 - 10 mg/l. |

12.2 Persistence and degradability

| | |
|--|---|
| Behaviour in environment compartments | No information available. |
| Behaviour in sewage plant | No information available. |
| Biological degradability | The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer. The product is readily biodegradable. |

12.3 Bioaccumulative potential

Product has having no bioaccumulation potential.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Other adverse effects

The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Dispose of as hazardous waste.
Coordinate disposal with the authorities if necessary.

Waste no. (recommended) 200129*
180106*

Contaminated packaging

Uncontaminated packaging may be taken for recycling.
Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended) 150110*

SECTION 14: Transport information

14.1 UN number

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.2 UN proper shipping name

Transport by land according to ADR/RID NO DANGEROUS GOODS

Inland navigation (ADN) NO DANGEROUS GOODS

Marine transport in accordance with IMDG NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

14.3 Transport hazard class(es)

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.4 Packing group

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

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

not applicable

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

| | |
|--|---|
| EEC-REGULATIONS | 1991/689 (2001/118); 2010/75; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2008/47/EC); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014 |
| TRANSPORT-REGULATIONS | DOT-Classification, ADR (2017); IMDG-Code (2017, 38. Amdt.); IATA-DGR (2017). |
| NATIONAL REGULATIONS (GB): | EH40/2005 Workplace exposure limits (Second edition, published December 2011). CHIP 3/ CHIP 4 |
| - Observe employment restrictions for people | Observe employment restrictions for young people. |
| - VOC (2010/75/CE) | No information available. |

15.2 Chemical safety assessment

For this product a chemical safety assessment has not been carried out.

SECTION 16: Other information

16.1 Hazard statements (SECTION 03)

H319 Causes serious eye irritation.
H302 Harmful if swallowed.
H318 Causes serious eye damage.

16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
ATE = acute toxicity estimate
CAS = Chemical Abstracts Service
CLP = Classification, Labelling and Packaging
DMEL = Derived Minimum Effect Level
DNEL = Derived No Effect Level
EC50 = Median effective concentration
ECB = European Chemicals Bureau
EEC = European Economic Community
EINECS = European Inventory of Existing Commercial Chemical Substances
ELINCS = European List of Notified Chemical Substances
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50 = Inhibition concentration, 50%
IMDG = International Maritime Code for Dangerous Goods
IUCLID = International Uniform Chemical Information Database
LC50 = Lethal concentration, 50%
LD50 = Median lethal dose
LC0 = lethal concentration, 0%
LOAEL = lowest-observed-adverse-effect level
MARPOL = International Convention for the Prevention of Marine Pollution from Ships
NOAEL = No Observed Adverse Effect Level
NOEC = No Observed Effect Concentration
PBT = Persistent, Bioaccumulative and Toxic substance
PNEC = Predicted No-Effect Concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
STP = Sewage Treatment Plant
TLV®/TWA = Threshold limit value – time-weighted average
TLV®/STEL = Threshold limit value – short-time exposure limit
VOC = Volatile Organic Compounds
vPvB = very Persistent and very Bioaccumulative

16.3 Other information

Classification procedure

Acute Tox. 4: H302 Harmful if swallowed. (Calculation method)
Eye Dam. 1: H318 Causes serious eye damage. (Calculation method)

Modified position

SECTION 3 been added: 2-Propylheptanol ethoxylate (5 EO)
SECTION 3 been added: 2-Propylheptanol ethoxylate (3,5 EO)
SECTION 2 been added: 2-Propylheptanol ethoxylate (5 EO)
SECTION 2 deleted: H410 Very toxic to aquatic life with long lasting effects.
SECTION 2 been added: P310 Immediately call a POISON CENTER / doctor.
SECTION 2 been added: Acute Tox. 4
SECTION 2 deleted: P280 Wear protective gloves / protective clothing / eye protection / face protection.
SECTION 2 deleted: P391 Collect spillage.
SECTION 2 deleted: P332+P313 If skin irritation occurs: Get medical advice / attention.
SECTION 2 deleted: P302+P352 IF ON SKIN: Wash with plenty of water / soap.
SECTION 2 deleted: P273 Avoid release to the environment.
SECTION 2 been added: Eye Dam. 1
SECTION 2 deleted: Aquatic Chronic 1
SECTION 2 been added: H302 Harmful if swallowed.
SECTION 2 deleted: environment
SECTION 2 deleted: Skin Irrit. 2
SECTION 2 deleted: H315 Causes skin irritation.
SECTION 2 been added: If swallowed or in the event of vomiting, risk of product entering the lungs.
SECTION 2 deleted: Aquatic Acute 1
SECTION 2 been added: corrosion
SECTION 2 been added: DANGER
SECTION 2 been added: H318 Causes serious eye damage.
SECTION 2 deleted: WARNING
SECTION 2 been added: P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
SECTION 2 deleted: P501 Dispose of contents/container in accordance with local/national regulation.
SECTION 2 been added: P280 Wear eye protection / face protection.
SECTION 6 been added: High risk of slipping due to leakage/spillage of product.
SECTION 7 been added: The product is combustible.
SECTION 8 deleted: safety glasses (EN 166:2001)
SECTION 8 been added: Tightly fitting goggles. (EN 166:2001)
SECTION 9 been added: Refractive index: [x]
SECTION 9 been added: Cloudiness: [x]
SECTION 9 been added: dispersible
SECTION 10 been added: No hazardous reactions known.
SECTION 11 been added: Risk of serious damage to eyes.
SECTION 11 been added: Calculation method
SECTION 14 been added: not classified as "Dangerous Goods"
SECTION 14 deleted: Environmentally hazardous substance, liquid, n.o.s. (Fatty alcohol alkoxylate)
SECTION 14 been added: not classified as "Dangerous Goods"
SECTION 14 deleted: Environmentally hazardous substance, liquid, n.o.s. (Fatty alcohol alkoxylate)
SECTION 14 deleted: Environmentally hazardous substance, liquid, n.o.s. (Fatty alcohol alkoxylate)
SECTION 14 been added: no dangerous goods



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