

SAFETY DATA SHEET

according to the Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

SECTION 1: IDENTIFICATION

Product identifier

Product name: actisolve[®] rotasafe

Substance type: Mixture

Use of the substance/mixture: Instrument disinfectant

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

Identified uses: actisolve® rotasafe is a ready-to-use solution for the disinfection and cleaning of rotary

instruments made of stainless steel, tungsten carbide, diamond grit, ceramic, polymer,

and silicone.

Uses advised against: Do not use for purposes other than those prescribed.

Recommended restrictions on use: For professional use only.

Details of the supplier of the safety data sheet

	Manufacturer	EU only representative	
Address:	United Disinfectant Manufacturers AG Allmendstrasse 21 8320 Fehraltorf Switzerland	United Disinfectant Manufacturers AG Dr. Grass-Strasse 12 9490 Vaduz Liechtenstein	
Telephone:	+41 (0)55 511 03 33		
Email:	info@udm.swiss	info@udm.li	
Website:	www.udm.swiss	www.udm.swiss www.udm.li	
	Downstream user/importer/distributo	or	
Address:	United Disinfectant Manufacturers AG Dr. Grass-Strasse 12 9490 Vaduz Liechtenstein		
Telephone:			
Email:	info@udm.li		
Website:	www.udm.li		

Emergency telephone number

Emergency telephone number: 111 / +64 (0)800 764 766

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification according to UN GHS criteria

Hazard type	Hazard category	Hazard statement code(s)	Classification procedure
Physical hazard	Flam. Liq. 3	H226	On basis of test data.
Health hazard	Skin Irrit. 2	H315	Harmonised (legal) classification.
Health hazard	Eye Irrit. 2	H319	Harmonised (legal) classification.
Health hazard	STOT SE 3	H336	Harmonised (legal) classification.

^{*} Please check the above numbers regularly as they might be subject to change.



The full text for all H-statements is displayed in section 16.

Label elements

Labelling according to UN GHS criteria

Hazard pictograms:





Signal word:	Warning	
Hazard statements:	H226	Flammable liquid and vapour.
	H315	Causes skin irritation.
	H319	Causes serious eye irritation.
	H336	May cause drowsiness or dizziness.
Precautionary statements:	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P261	Avoid breathing fume/mist/vapours/spray.
	P280	Wear protective gloves/protective clothing/eye protection/face protection.
	P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
	P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P501	Dispose of contents/container in accordance with local and national regulations.
Supplemental information:	Not applicable.	

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

None known.

Substances

Other hazards:

See below.

Mixtures

Classification according to UN GHS criteria

Substance name	Identification	Classification	SCL, M-factor, ATE	Concentration
Propan-2-ol	CAS no.: 67-63-0 EC no.: 200-661-7 Index no.: 603-117-00-0 REACH no.: 01-2119457558-25-0000	Eye Irrit. 2, H319 Flam. Liq. 2, H225 STOT SE 3, H336	No data available.	30% - < 50%
Potassium hydroxide	CAS no.: 1310-58-3 EC no.: 215-181-3 Index no.: 019-002-00-8 REACH no.: 01-2119487136-33-0000	Acute Tox. 4, H302 Skin Corr. 1A, H314	Eye Irrit. 2, H319: 0,5 % ≤ C < 2 %; Skin Corr. 1A, H314: C ≥ 5 %; Skin Corr. 1B, H314: 2 % ≤ C < 5 %; Skin Irrit. 2, H315: 0,5 % ≤ C < 2 %	;
Didecyldimethylammonium chloride	CAS no.: 7173-51-5 EC no.: 230-525-2 Index no.: 612-131-00-6 REACH no.: 01-2119945987-15-0000	Acute Tox. 4, H302 Skin Corr. 1B, H314	No data available.	< 1%
2-Phenoxyethanol	CAS no.: 122-99-6 EC no.: 204-589-7 Index no.: 603-098-00-9 REACH no.: 01-2119488943-21-0000	Acute Tox. 4, H302 Eye Irrit. 2, H319	ATE (ingestion) = 1394 mg/kg bw (-)	ı < 1%

The full text for all H-statements is displayed in section 16.



SECTION 4: FIRST AID MEASURES

Description of first aid measures

General notes: Never give anything by mouth to an unconscious person. Place patient in recovery

position and ensure airway patency. When in doubt or if feeling unwell seek medical assistance. Show the safety data sheet and label to the physician. No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. When it is suspected, that there may still be harmful vapours/fumes present in the air, respiratory protection (mask; self contained breathing apparatus) must be used. Wash contaminated clothing with

water before removing or use gloves.

After inhalation: Remove patient to fresh air - move out of dangerous area. In case of unconsciousness

bring patient into stable side position and seek medical attention. If breathing is irregular

or respiratory arrest occurs provide artificial respiration. Keep at rest in a position

comfortable for breathing. Seek medical help immediately.

After contact with skin: Take off all contaminated clothing. Areas of the body that have come into contact with the

product must be rinsed with water. Immediately obtain professional medical help.

After contact with eyes: Immediately flush eyes with running water, keeping eyelids apart. After 5 minutes of

rinsing, remove contact lenses, if present, and continue rinsing. Consult a physician

immediately.

After ingestion: Do not induce vomiting. Rinse mouth thoroughly with water. Never give anything by

mouth to an unconscious person. Immediately consult a doctor. Show the physician the

safety data sheet or label.

Most important symptoms and effects, both acute and delayed

See section 11 for more detailed information on health effects and symptoms.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

Suitable extinguishing media: Carbon dioxide. Dry chemical powder. Water spray. Alcohol resistant foam.

Unsuitable extinguishing media: Full water jet.

Special hazards arising from the substance or mixture

Specific hazards during firefighting: In case of a fire toxic gases can be generated; do not inhale gases/smoke.

Hazardous combustion products: No data available.

Advice for firefighters

Special protective equipment for Firefighters should wear appropriate protective clothing for firefighters (including helmets, firefighters:

protective boots and gloves) (BS EN 469) and self-contained breathing apparatus

(SCBA) with a full face-piece (BS EN 137).

In case of fire or heating do not breathe fumes/vapours. No action shall be taken Additional information:

involving any personal risk or without suitable training. Prolonged heating can cause an explosion. Vapours can form explosive mixtures with air. Cool containers at risk with water spray. If possible remove containers from endangered area. Contaminated firefighting water and fire residues must be disposed of in accordance with the local

regulations.



SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Advice for non-emergency

personnel:

Use personal protective equipment (section 8). Ensure adequate ventilation. Keep away from sources of ignition and/or heat; No smoking. No action shall be taken involving any personal risk or without suitable training. Prevent access to unprotected personnel. Evacuate the danger zone. Do not breathe vapour or mist. Avoid contact with skin, eyes

and clothing.

Use personal protective equipment. Advice for emergency responders:

Environmental precautions

Do not allow to enter drains or waterways. Prevent product from getting into subsoil/soil.

Methods and material for containment and cleaning up

Stem the spill if this does not pose risks. Absorb product (with inert material), collect it in special container and dispose it to a licensed hazardous-waste disposal contractor. Use only explosion-proof instruments and equipment. Use spark-proof tools. Prevent release into the sewer, water, basements or confined areas. Ventilate the premises. Clean contaminated area with plenty of water.

Reference to other sections

See also sections 7, 8 and 13.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

General advice:

Use general or local exhaust ventilation to prevent inhaling vapours and aerosols. Do not discharge into drains, surface water and soil. After use immediately close container

tightly.

Instructions for protection against

fire and explosion:

Ensure adequate ventilation. Keep away from sources of ignition - no smoking. Use spark-proof tools. Take precautionary measures against static discharges. Vapours are heavier than air and spread along the floor. They form explosive mixtures with air.

Advice on general occupational

hygiene:

Use good personal hygiene practices - wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Do not breathe vapours/mist. Avoid contact with skin, eyes and clothes. Remove contaminated clothes and wash them

before reuse. Wear suitable protective equipment; see section 8.

Conditions for safe storage, including any incompatibilities

Requirements for storage room and Close opened containers after use. Put the containers upright to prevent from leaking. Do containers:

not store in unlabelled containers.

Further information about storage

conditions:

Keep in a cool, dry and well ventilated place. Protect from open fire, heat and direct sunlight. Keep away from food, drink and animal feeding stuffs. Keep away from oxidising substances. Keep away from sources of ignition - no smoking. Store only in

original container.

Store separately from beverages, food and feed. Store separately from strong acids, Stocking with different products:

bases and oxidation agents.

Specific end use(s)

See identified uses in section 1.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION



Control parameters

Occupational exposure limits

Please refer to the latest edition of the appropriate source text and consult an industrial hygienist or similar professional, or local agencies, for further information.

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

See section 7. No additional measures necessary.

Individual protection measures

Eye/face protection: Wear tightly fitting safety goggles or protective face shield.

Hand protection: Short-term contact: Gloves with Protection Index of at least Class 2 (Norm EN 374,

permeation time > 30 min) for substances of Classes A and K. Long-term contact: Gloves with Protection Index of at least Class 6 (Norm EN 374, permeation time > 480 min) for substances of Classes A and K. (Class A: primary alcohols; Class K: inorganic bases).

Body protection: Apron and work shoes or boots. Emergency responders should wear appropriate body

protection.

Respiratory protection: Do not inhale gas/vapours/aerosol.

Thermal hazards: No data available.

Hygiene measures: Use good personal hygiene practices – wash hands at breaks and when done working

with material. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothes. Do not eat, drink or smoke while working. Do

not breathe vapours/aerosols.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state: Liquid

Form: Clear, non-viscous liquid
Colour: Colourless to slightly yellow

Odour: Of alcohol

Melting point:

Freezing point:

No data available.

No data available.

No data available.

No data available.

and boiling range:

Flammability: The product is flammable.

Lower explosion limit: No data available. Upper explosion limit: No data available.

Flash point: 23 °C

Auto-ignition temperature: Not self-igniting.

Decomposition temperature: Not applicable.
pH-value (undiluted product): 13.0 - 14.0

pH-value (diluted product): Not applicable (ready-to-use solution).

Kinematic viscosity: No data available.

Solubility: Completely miscible with water.

Partition coefficient n-octanol/water: Not applicable.



Vapour pressure at 50 °C: No data available.

Density: 0.96 g/cm³

Relative density: 0.96

Relative vapour density at 20 °C: No data available.

Other information

Oxidising properties: Not oxidising.

Explosive properties: Vapours can form explosive mixtures with air.

Evaporation rate: No data available.

Miscibility: Completely miscible with water.

SECTION 10: STABILITY AND REACTIVITY

Reactivity

The mixture is not reactive.

Chemical stability

Stable at normal temperatures and pressure at least up to the expiry date printed on the container. Contact with open flame may cause ignition.

Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid

Avoid heat, flames, sparks and other sources of ignition. Containers may rupture or explode if exposed to intense heat. Avoid conditions beyond those mentioned in section 7.

Incompatible materials

Avoid contact with materials sensitive to alcohols and bases. Avoid contact with unhardened steel and sensitive non-ferrous metals.

Hazardous decomposition products

No dangerous decomposition products occur under normal storage and use.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

Information on likely routes of exposure

Inhalation:Information on effects are given below.Skin contact:Information on effects are given below.Eye contact:Information on effects are given below.Ingestion:Information on effects are given below.

Acute toxicity

Mixture: ATEmix: LD50 (rat, ingestion) > 5000 mg/kg

Component: No data available.

Skin corrosion/irritation



Mixture: Irritating to skin.

Component: No data available.

Serious eye damage/irritation

Mixture: Causes serious eye damage.

Component: No data available.

Respiratory or skin sensitization

Mixture: The product is not classified as sensitising.

Component: No data available.

Germ cell mutagenicity

Mixture: Not a mutagen. Does not contain ingredients with known mutagenic properties.

Component: No data available.

Carcinogenicity

Mixture: Does not contain ingredients with known carcinogenic properties.

Component: No data available.

Reproductive toxicity

Mixture: This product contains no ingredients with known reproductive toxicity effects.

Component: No data available.

STOT-single exposure

Mixture: This product exhibits no known STOT-single exposure.

Component: No data available.

STOT-repeated exposure

Mixture: This product exhibits no known STOT-repeated exposure.

Component: No data available.

Aspiration hazard

Mixture: This product exhibits no known aspiration hazard.

Component: No data available.

Information on other hazards

No data available.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

The release of amounts present in our packaging is not expected to have any ecotoxic effects. The release of several packages of this product can have temporary and localized toxic effects on aquatic and terrestrial organisms. This product is not expected to negatively affect the function of sewage treatment plants. There is no data available from ecotoxicological tests regarding the entire product. The ecotoxicological risk has been estimated based on available data on product ingredients and concentrations, where available.

Persistence and degradability

The product ingredients possess good biodegradation properties. The surfactants included in the product comply with the requirements for the biological decomposition of Regulation (EC) No. 648/2004 on detergents. Based on available data, the biodegradability in sewage treatment plants can be categorized as high. High product concentrations can affect the biodegradability potential of the activated sludge. Obtain the consent of the local authorities before discharging the concentrated solution to wastewater treatment plants.

Substance name	Biodegradation	Basis	Remark
Propan-2-ol	95%	21 D	Readily biodegradable.
Potassium hydroxide	Not applicable.	Not applicable.	Not applicable.



Version: 2.0 Date of compilation/Revision date: 28.08.2023 Replaces version: 1.0

Product: actisolve® rotasafe

Didecyldimethylammonium chloride Ca. 60% OECD 301 D Readily biodegradable. 2-Phenoxyethanol 90 - 100% OECD 301 A, 15 D Readily biodegradable.

Bioaccumulative potential

Mixture: Based on available data, no product ingredient is expected to exhibit bioaccumulative

potential.

Component: No data available.

Mobility in soil

Mixture: The product is not expected to be mobile over long distances because most of the

product ingredients possess good biodegradability. The remaining ingredients (e.g. mineral salts) are absorbed into the soil without negative ecological effects. This product

reduces the surface tension of water.

Component: No data available.

Other adverse effects

The product contains no ingredients with ozone depletion potential or global warming potential. The product contains no heavy metals or their compounds as defined in 2006/11/EG. The product contains no absorbable organic halogens (AOX). The product contains volatile organic compounds (VOC).

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal methods: Dispose of according to national and regional provisions. Waste code EWC Nr: 070699

(Group: waste material of MFSU from fats, lubricants, soaps, detergents, disinfectants and personal protection products). Small amounts of the product (up to about 500 ml per

day) can be disposed of via the sewage system after dilution 1:5 with tap water.

Contaminated packaging: Empty packaging can be treated like household waste or recycled after cleaning with

water. Handle the packaging containing the product in the same way as the product itself. Where available, references to local regulations regarding disposal are given in section 15 of the SDS. The user has sole responsibility for acquaintance and compliance

with the applicable regulations.

SECTION 14: TRANSPORT INFORMATION

Land transport (ADR/ADN/RID)

UN number

UN 2924

UN proper shipping name

FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Propan-2-ol, Potassium hydroxide)

Transport hazard class(es)

3

Packing group

III | Danger label: 3 + 8 | LQ: 5 L



Environmental hazards

Environmental hazards: No

Special precautions for user

See sections 6 to 8.

Sea transport (IMDG/IMO)

UN number

UN 2924

UN proper shipping name

FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Propan-2-ol, Potassium hydroxide)

Transport hazard class(es)

3

Packing group

III | Danger label: 3 + 8 | LQ: 5 L

Environmental hazards

Environmental hazards: No Marine pollutant: No

Special precautions for user

See sections 6 to 8.

Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

Air transport (IATA)

UN number

UN 2924

UN proper shipping name

FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Propan-2-ol, Potassium hydroxide)

Transport hazard class(es)

3

Packing group

III | Danger label: 3 + 8 | LQ: 5 L

Environmental hazards

Environmental hazards: No



Special precautions for user

See sections 6 to 8.

SECTION 15: REGULATORY INFORMATION

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

The product has been classified and marked in accordance with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS). The product complies with requirements of Regulation (EC) No. 1907/2006 (REACH), Regulation (EC) No. 648/2004 (Detergents Regulation), Regulation (EU) No. 528/2012 (Biocides Regulation), Directive 93/42/EC (Medical Devices Directive), and Regulation (EU) No. 2017/745 on medical devices (MDR), if applicable.

SECTION 16: OTHER INFORMATION

Indication of changes

- 1.1 Product identifier Updated.
- 1.2 Relevant identified uses of the substance or mixture and uses advised against Updated.
- 1.3 Details of the supplier of the safety data sheet Updated.
- 1.4 Emergency telephone number Updated.
- 2.3 Other hazards Updated.
- 4.1 Description of first aid measures Updated.
- 5.2 Special hazards arising from the substance or mixture Updated.
- 5.3 Advice for firefighters Updated.
- 6.1 Personal precautions, protective equipment and emergency procedures Updated.
- 6.2 Environmental precautions Updated.
- 7.1 Precautions for safe handling Updated.
- 7.2 Conditions for safe storage, including any incompatibilities Updated.
- 8.1 Control parameters Updated.
- 8.2 Exposure controls Updated.
- 9.1 Information on basic physical and chemical properties Updated.
- 9.2 Other information Updated.
- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 / Information on toxicological effects Updated.
- 11.2 Information on other hazards Updated.
- 12.6 Endocrine disrupting properties Updated.
- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Updated.

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
- ASTM American Society for Testing and Materials
- AwSV Ordinance on facilities for handling substances that are hazardous to water
- BOD Biochemical Oxygen Demand
- c.c. Closed cup
- CAS Chemical Abstract Services
- CESIO European Committee of Organic Surfactants and their Intermediates
- COD Chemical Oxygen Demand
- DMEL Derived Minimum Effect Level
- DNEL Derived No Effect Level
- EbC50 Median concentration in terms of reduction of growth
- EC Effective concentration
- EINECS European Inventory of Existing Commercial Chemical Substances
- EN European Norm
- ErC50 Median concentration in terms of reduction of growth rate
- GGVSEB German ordinance for road, rail and inland waterway transportation of dangerous goods



GGVSee - German ordinance for sea transportation of dangerous goods

GLP - Good Laboratory Practice

GMO - Genetic Modified Organism

IATA - International Air Transport Association

ICAO - International Civil Aviation Organization

IMDG - International Maritime Dangerous Goods

ISO - International Organization For Standardization

LD/LC - Lethal dose/concentration

LOAEL - Lowest Observed Adverse Effect Level

LOEL - Lowest Observed Effect Level

LQ - Limited Quantity

M-Factor - Multiplying factor

NOAEL - No Observed Adverse Effect Level

NOEC - No Observed Effect Concentration

NOEL - No Observed Effect Level

o.c. - Open cup

OECD - Organisation for Economic Cooperation and Development

OEL - Occupational Exposure Limit

PBT - Persistent, bioaccumulative, toxic

PNEC - Predicted No Effect Concentration

REACH - REACH registration

RID - Convention concerning International Carriage by Rail

SVHC - Substances of Very High Concern

TA - Technical Instructions

TRGS - Technical Rules for Hazardous Substances

vPvB - Very persistent, very bioaccumulative

WGK - Water Hazard Class

Key literature references and sources for data

No data available.

List of relevant phrases

- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.

Training information

Comply with national laws regulating employee instruction.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.