Anaerobic Activator 100ml

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

1.1. Product identifier

Trade name/designation:

Anaerobic Activator 100ml

Article No.:
T560001

UFI:
7HAW-MXWC-RA03-GGM0

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

Use of the substance/mixture:
Activator

1.3. Details of the supplier of the safety data sheet

Supplier:

KANDO Service GmbH
Hartleitnerstraße 3
4653 Eberstalzell
Austria
Telephone: +43 (0) 7241 213 79
E-mail: msds@kando.eu

1.4. Emergency telephone number

Vergiftungsinformationszentrale (VIZ), Stubenring 6, 1010 Wien, 24h: 01 406 43 43, Montag - Freitag: 8 bis 16 Uhr, Tel.: 01 406 68 98 (keine medizinische Auskunft) (Only available during office hours.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
flammable liquids *(Flam. Liq. 2)*	H225: Highly flammable liquid and vapour.	
Serious eye damage/eye irritation *(Eye Irrit. 2)*	H319: Causes serious eye irritation.	
STOT-single exposure *(STOT SE 3)*	H336: May cause drowsiness or dizziness.	

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:

GHS02
Flame

GHS07
Exclamation mark

Signal word: Danger

Hazard components for labelling:
propan-2-ol

Hazard statements for physical hazards	
H225	Highly flammable liquid and vapour.

Hazard statements for health hazards	
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

Supplemental hazard information: none

Precautionary statements Prevention	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid inhalation of mist/vapour/aerosol.

Precautionary statements Response	
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
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.

Precautionary statements Storage	
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.

2.3. Other hazards

Other adverse effects:
The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/information on ingredients

*

3.2. Mixtures

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 67-63-0 EC No.: 200-661-7 Index No.: 603-117-00-0 REACH No.: 01-2119457558-25	**propan-2-ol** Eye Irrit. 2 (H319), Flam. Liq. 2 (H225), STOT SE 3 (H336)  Danger **Acute Toxicity Estimate** ATE (oral) > 2,000 mg/kg ATE (dermal) > 2,000 mg/kg ATE (inhalation, gases) > 25 ppmV ATE (inhalation, vapour) > 20 mg/L	> 50 – ≤ 100 Vol-%
CAS No.: 68084-48-0 EC No.: 268-439-2 REACH No.: 01-2122078474-41	**Copper neodecanoate** Acute Tox. 4 (H302), Aquatic Acute 1 (H400), Aquatic Chronic 2 (H411)  Warning M-factor (acute): 10 **Acute Toxicity Estimate** ATE (oral) 500 mg/kg	≥ 0.25 – < 2.5 Vol-%

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:
Take off contaminated clothing.

Following inhalation:
Fresh air supply, respiratory care if necessary, warmth. Consult a doctor if symptoms persist. If unconscious, position and transport in stable lateral position.

In case of skin contact:
In case of contact with skin, wash off with plenty of soap and water.

After eye contact:
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Following ingestion:
Rinse out mouth immediately and drink plenty of water. Do NOT induce vomiting. Seek medical advice immediately and show this container or label.

4.2. Most important symptoms and effects, both acute and delayed
No further relevant information available.

4.3. Indication of any immediate medical attention and special treatment needed
No further relevant information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media:
Carbon dioxide (CO2), Extinguishing powder, Water spray jet
Fight larger fires with water spray or alcohol-resistant foam.

5.2. Special hazards arising from the substance or mixture
May form explosive gas-air mixtures.
Formation of toxic gases when heated or in case of fire.

Hazardous combustion products:
Carbon monoxide (CO), Carbon dioxide (CO2)
Risk of formation of toxic pyrolysis products.
Under certain fire conditions, traces of other toxic substances cannot be excluded.

5.3. Advice for firefighters
Protective equipment:Wear self-contained breathing apparatus.
Do not inhale explosion and combustion gases.

5.4. Additional information
Cool endangered containers with water spray.
Fire residues and contaminated extinguishing water must be disposed of in accordance with official regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
6.1.1. For non-emergency personnel
Personal precautions:
Wear protective equipment. Keep unprotected persons away. Provide adequate ventilation. Remove all sources of ignition. Avoid contact with eyes and skin.

6.1.2. For emergency responders
No data available

6.2. Environmental precautions
In case of spillage into water or sewage system, inform the competent authorities.
Dilute with plenty of water.
Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up
For cleaning up:
Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Other information:
Provide adequate ventilation.
Dispose of the ingested material in accordance with the regulations.

6.4. Reference to other sections

See section 7 for further information on safe handling.
For further information on personal protective equipment: see section 8.
For further information on disposal: see section 13.

6.5. Additional information

Vapours can form explosive mixtures with air.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Keep container tightly closed. Ensure good ventilation/extraction at the workplace. Ensure good room ventilation also in the floor area (vapours are heavier than air).

Fire prevent measures:

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels:

Store in a cool place. Keep/Store only in original container.

Hints on storage assembly:

Not required.

Storage class (TRGS 510, Germany): 3 – Flammable liquids

Further information on storage conditions:

Store in a cool, dry place in well-sealed containers. Store in a well-ventilated place. Protect from heat and direct sunlight.

7.3. Specific end use(s)

Recommendation:

No further relevant information available.

SECTION 8: Exposure controls/personal protection

*

8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
MAK (AT)	**propan-2-ol** CAS No.: 67-63-0 EC No.: 200-661-7	② 800 ppm (2,000 mg/m³) ⑤ (max. 4x15 min./Schicht)
MAK (AT)	**propan-2-ol** CAS No.: 67-63-0 EC No.: 200-661-7	① 200 ppm (500 mg/m³)

8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	500 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	89 mg/m³	① DNEL Consumer ② Long-term – inhalation, systemic effects
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	888 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	319 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	26 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects

Substance name	PNEC Value	① PNEC type
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	140.9 mg/L	① PNEC aquatic, freshwater
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	140.9 mg/L	① PNEC aquatic, marine water
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	2,251 mg/L	① PNEC sewage treatment plant
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	552 mg/kg	① PNEC sediment, freshwater
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	552 mg/kg	① PNEC sediment, marine water
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	28 mg/kg	① PNEC soil
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	140.9 mg/L	① PNEC aquatic, intermittent release

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No further details. See section 7.

8.2.2. Personal protection equipment

Eye/face protection:

Safety goggles

Skin protection:

Hand protection:
Wear gloves for protection against chemicals according to EN 374.
Check protective gloves for proper condition before each use.
The glove material must be impermeable and resistant to the product / substance / preparation.
Selection of the glove material considering the breakthrough times, permeation rates and degradation.
Breakthrough time: 480 min. (DIN EN 374)
Glove material: Nitril I, Viton, Butyl II, Butyl

Breakthrough time: 240 min. (DIN EN 374)
Glove material: Chloroprene Nitrile II, Nitril VI

This recommendation is based exclusively on chemical compatibility and testing according to EN 374 under laboratory conditions. Depending on the application, different requirements may arise. Therefore, the recommendations of the protective glove supplier must also be taken into account. The selection of a suitable glove depends not only on the material but also on other quality features and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of glove materials cannot be calculated in advance and must therefore be checked before use.
The exact breakthrough time must be obtained from the protective glove manufacturer and must be observed.

Respiratory protection:
In case of inadequate ventilation wear respiratory protection. Filter type: A

Other protection measures:
General protective and hygienic measures:
The usual precautions when handling chemicals must be observed.
Keep away from food, drink and animal feed.
Remove contaminated, saturated clothing immediately.
Wash hands before breaks and after work.
Avoid contact with eyes and skin.

8.2.3. Environmental exposure controls
No data available

SECTION 9: Physical and chemical properties

* 9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid
Colour: greenish blue
Odour: Alcohol
flammability: No data available

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	7		
Melting point	*No data available*		
Freezing point	*No data available*		
Initial boiling point and boiling range	82 °C		
Flash point	13 °C		
Evaporation rate	*No data available*		
Auto-ignition temperature	*No data available*		
Upper/lower flammability or explosive limits	*No data available*		
Vapour pressure	*No data available*		
Vapour density	*No data available*		
Density	*No data available*		
Bulk density	*not applicable*		
Water solubility	*No data available*		
Dynamic viscosity	10 mPa* s	20 °C	
Kinematic viscosity	*No data available*		

* 9.2. Other information
The product is not self-igniting. The product is not explosive, but the formation of explosive vapour/air mixtures is possible. formation of explosive vapour/air mixtures is possible.

9.2.1. Information with regard to physical hazard classes
Explosives:
Not applicable
Flammable gases:
Not applicable

Aerosols:
Not applicable
Oxidizing gases:
Not applicable
Gases under pressure:
Not applicable
Flammable liquids:
Highly flammable liquid and vapour.
Flammable solids:
Not applicable
Self-reactive substances and mixtures:
Not applicable
Pyrophoric liquids:
Not applicable
Pyrophoric solids:
Not applicable
Self-heating substances and mixtures:
Not applicable
Substances or mixtures which, in contact with water, emit flammable gases:
Not applicable
Oxidizing liquids:
Not applicable
Oxidizing solids:
Not applicable
Organic peroxides:
Not applicable
Corrosive to metals:
Not applicable
Desensitised explosives:
Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity
No further relevant information available.

10.2. Chemical stability
Thermal decomposition / Conditions to avoid:
The product is stable under storage at normal ambient temperatures.
Protect from heat and direct sunlight.

10.3. Possibility of hazardous reactions
Formation of explosive gas mixtures with air.

10.4. Conditions to avoid
No further relevant information available.

10.5. Incompatible materials
No further relevant information available.

10.6. Hazardous decomposition products
No known hazardous decomposition products.

SECTION 11: Toxicological information

* **11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7
LD_{50} oral: >2,000 mg/kg (Rat)
LD_{50} dermal: >2,000 mg/kg (Rat)
LC_{50} Acute inhalation toxicity (gas): >25 ppmV 4 h (Rat)
LC_{50} Acute inhalation toxicity (vapour): >20 mg/L 6 h (Rat)

Acute oral toxicity:
Based on available data, the classification criteria are not met.

Acute dermal toxicity:
Based on available data, the classification criteria are not met.

Acute inhalation toxicity:
Based on available data, the classification criteria are not met.

Skin corrosion/irritation:
Based on available data, the classification criteria are not met.

Serious eye damage/irritation:
Causes serious eye irritation.

Respiratory or skin sensitisation:
Based on available data, the classification criteria are not met.

Germ cell mutagenicity:
Based on available data, the classification criteria are not met.

Carcinogenicity:
Based on available data, the classification criteria are not met.

Reproductive toxicity:
Based on available data, the classification criteria are not met.

STOT-single exposure:
May cause drowsiness or dizziness.

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

Aspiration hazard:
Based on available data, the classification criteria are not met.

11.2. Information on other hazards

Endocrine disrupting properties:
No further relevant information available.

SECTION 12: Ecological information

* **12.1. Toxicity**

propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7
LC_{50}: >1,000 mg/L 4 d (fish)
EC_{50}: >1,000 mg/L 2 d (crustaceans)
LC_{50}: 9,640 mg/L 4 d (fish, Pimephales promelas)
LC_{50}: 9,714 mg/L 1 d (Daphnia magna)
EC_{50}: >100 mg/L (Algae/water plant, Bacteria)
LOEC: 1,000 mg/L (Alge)
EC_{50}: >100 mg/L 2 d (crustaceans, Daphnia magna)
ErC_{50}: >100 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus)
LOEC: 1,000 mg/L (Algae/water plant, Algae)

Aquatic toxicity:
No further relevant information available.

Assessment/classification:
No further relevant information available.

12.2. Persistence and degradability

propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7
Biodegradation: Yes, rapidly
Remark: Readily biodegradable (according to OECD criteria).

Abiotic degradation:
No further relevant information available.

Biodegradation:
No further relevant information available.

12.3. Bioaccumulative potential

propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7
Log K_{OW}: 0.05

Accumulation / Evaluation:
No further relevant information available.

12.4. Mobility in soil
No further relevant information available.

12.5. Results of PBT and vPvB assessment

propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7
Results of PBT and vPvB assessment: —
Copper neodecanoate CAS No.: 68084-48-0 EC No.: 268-439-2
Results of PBT and vPvB assessment: —

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties
None of the ingredients are included.

12.7. Other adverse effects
Drinking water hazard even when small quantities leak into the subsoil.
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Dispose of waste according to applicable legislation.

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

08 04 09 *	Waste adhesives and sealants containing organic solvents or other dangerous substances

**: Evidence for disposal must be provided.*

Waste code packaging

15 01 10 *	packaging containing residues of or contaminated by dangerous substances

**: Evidence for disposal must be provided.*

Waste treatment options

Appropriate disposal / Package:
Uncleaned packaging:Dispose of waste according to applicable legislation.
Recommended cleaning agent: Water, if necessary with the addition of cleaning agents.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
UN 1219	UN 1219	UN 1219	UN 1219
14.2. UN proper shipping name			
ISOPROPANOL (ISOPROPYLALCOHOL), solution	ISOPROPANOL (ISOPROPYLALCOHOL), solution	ISOPROPANOL (ISOPROPYL ALCOHOL) solution	ISOPROPANOL (ISOPROPYL ALCOHOL) solution
* **14.3. Transport hazard class(es)**			
 3	 3	 3	 3
14.4. Packing group			
II	II	II	II
14.5. Environmental hazards			
No	No	No	No
14.6. Special precautions for user			
Special Provisions: 601 **Limited quantity (LQ):** 1 L **Excepted Quantities (EQ):** E2 **Hazard identification number (Kemler No.):** 33 **Classification code:** F1 **Tunnel restriction code:** (D/E) **Remark:** Caution: Flammable liquid substances!	**Special Provisions:** 601 **Limited quantity (LQ):** 1 L **Excepted Quantities (EQ):** E2 **Classification code:** F1 **Remark:** Caution: Flammable liquid substances!	**Special Provisions:** - **Limited quantity (LQ):** 1 L **Excepted Quantities (EQ):** E2 **EmS-No.:** F-E, S-D **Remark:** Caution: Flammable liquid substances!	**Special Provisions:** A180 **Limited quantity (LQ):** Y341 **Excepted Quantities (EQ):** E2 **Remark:** Caution: Flammable liquid substances!

14.7. Maritime transport in bulk according to IMO instruments
not applicable

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Restrictions on use:

Restriction conditions: 3
Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex II: None of the ingredients are included.
Regulation (EU) 2019/1148
Annex I - RESTRICTED EXPORT SUBSTANCES FOR EXPLOSIVES (upper concentration limit for a permit pursuant to Article 5(3)): None of the ingredients are included.
Annex II - EXPLOSIVES REPORTABLE FOR EXPLOSIVES: None of the ingredients are included.
Regulation (EC) No 273/2004 on drug precursors: None of the ingredients are included.
Regulation (EC) No 111/2005 laying down rules for the monitoring of trade in drug precursors between the Community and third countries: None of the ingredients are included.

15.1.2. National regulations
No data available

15.2. Chemical Safety Assessment
A chemical safety assessment has not been carried out.

SECTION 16: Other information

* **16.1. Indication of changes**

3.2.	Mixtures
8.1.	Control parameters
9.1.	Information on basic physical and chemical properties
9.2.	Other information
11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008
12.1.	Toxicity
14.3.	Transport hazard class(es)
16.1.	Indication of changes
16.2.	Abbreviations and acronyms

* **16.2. Abbreviations and acronyms**

ACGIH	American Conference of Governmental Industrial Hygienists
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
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DNEL	derived no-effect level
EC_{50}	Effective Concentration 50%
ES	Exposure scenario
EWC	European Waste Catalogue
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
KG	body weight
LC_{50}	Lethal (fatal) Concentration 50%
LD_{50}	Lethal (fatal) Dose 50%
MAK	Maximum concentration in the workplace air (CH)
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety & Health
OECD	Organisation for Economic Cooperation and Development
OSHA	Occupational Safety & Health Administration
PBT	persistent and bioaccumulative and toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Dangerous goods regulations for transport by rail
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations
ZNS	central nervous system

16.3. Key literature references and sources for data
No data available

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
flammable liquids *(Flam. Liq. 2)*	H225: Highly flammable liquid and vapour.	
Serious eye damage/eye irritation *(Eye Irrit. 2)*	H319: Causes serious eye irritation.	
STOT-single exposure *(STOT SE 3)*	H336: May cause drowsiness or dizziness.	

16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements	
H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

16.6. Training advice
No data available

16.7. Additional information
To the best of our knowledge, the information contained herein is accurate. However, neither the above-mentioned supplier nor its subsidiaries assume any liability with regard to the correctness or completeness of the information provided. A final determination of the suitability of individual materials is the sole responsibility of the user. All materials may involve unknown risks and should be used with caution. While certain risks are described herein, we cannot guarantee that these are the only possible risks.

* Data changed compared with the previous version.