

Safety data sheet
according to 1907/2006/EC,
Article 31



Print date: 24.08.2021

revised on: 10.05.2022

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

- **1.1 Product identifier**
- **Trade name:** Activator AT
- **Item number:** 7000.2030
- **UFI:** PUH1-308Q-E00N-9UMJ
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** Defoamer
- **1.3 Details of the supplier providing the safety data sheet**
- **Manufacturer/Supplier:**
IMO GmbH
Gässlesweg 6
75334 Straubenhardt
Phone: 07082 49180
Fax: 07082 60436
info@imo-ag.com
internet: www.imo-ag.com
- **Informing department:** Competent person according to Regulation (EC) No. 1907/2006:
Technical center
Phone: +49-6251-171-744, Fax: +49-6251-171-844
- **1.4 Emergency number:** Tel.: +49-(0)6251-171-899

SECTION 2: Potential hazards

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
Met. Corr.1 H290 May be corrosive to metals. Eye Dam.
1 H318 Causes serious eye damage.
Aquatic Acute 1 H400 Very toxic to aquatic organisms.
Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

· 2.2 Labeling elements

- **Labeling according to Regulation (EC) No. 1272/2008**
The product is classified and labeled according to the CLP regulation.
- **Hazard pictograms**



GHS05 GHS09

- **Signal word** Danger
- **Hazard-determining components of labeling:**
Ethanol, 2-butoxy-, production of, by-products from
Quaternary ammonium compounds, di-C16-18-alkyldimethyl, chloride
- **Hazard warnings**
H290 May be corrosive to metals. H318 Causes serious eye damage.
H410 Very toxic to aquatic life with long lasting effects.
- **Safety instructions**
P273 Avoid release to the environment.
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 any contact lenses if possible. Continue rinsing.
P390 Take up spillage to avoid material damage.

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- **2.3 Other hazards**
- **Results of the PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** Mixture of the following substances with non-hazardous additions.

- **Hazardous ingredients:**

CAS: 93820-33-8 EINECS: 298-613-3 Reg. no.: 01-2119984313-35-XXXX	N-(2-ethylhexyl)isononan-1-amide Aquatic Acute 1, H400	25-50%
CAS: 92129-33-4 EINCS: 295-835-2 Reg. no.: 01-2119533058-42-XXXX	Quaternary ammonium compounds, Di-C16-18-alkyl dimethyl, chloride Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=1); Aquatic Chronic 1, H410 (M=10)	10-<20%
CAS: 161907-77-3 number: 310-287-7 Reg. no.: 01-2119475115-41-XXXX	Ethanol, 2-butoxy-, production of, by-products from Eye Dam. 1, H318	10-<20% EC
EC number: 931-216-1 Reg. no.: 01-2119472309-33-XXXX	Fatty acid, C18 unsaturated, reaction products with Triethanolamine, dimethyl sulfate quaternized Skin Irrit. 2, H315; Eye Irrit. 2, H319 Specific concentration limits: Skin Irrit. 2; H315: C ≥ 28 % Eye Irrit. 2; H319: C ≥ 28 %	10-<20%
CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0 Reg. no.: 01-2119457558-25-XXXX	propan-2-ol Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	1-<3%

- **Regulation (EC) No. 648/2004 on detergents / labeling of ingredients**

Cationic surfactants ≥5 - <15%

- **Additional information:**

The wording of the listed hazard statements can be found in section 16.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:**
Remove the affected person from the danger zone and lay them down.
Immediately remove any clothing contaminated with the product.
- **After inhalation:**
Supply fresh air, give artificial respiration if necessary, keep warm. If symptoms persist, consult a doctor.
- **After skin contact:**
Wash off immediately with soap and water and rinse thoroughly. If skin irritation persists, consult a doctor.
- **After eye contact:**
Rinse opened eye for several minutes under running water and consult a doctor.
- **After ingestion:**
Rinse out mouth and drink plenty of water. Consult a doctor immediately.

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- **Notes for the doctor:**
Symptomatic treatment (decontamination, vital functions), no specific antidote known.
- **4.2 Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **4.3 Information on immediate medical assistance or special treatment**
Medical supervision for at least 48 hours.

SECTION 5: Fire-fighting measures

- **5.1 Extinguishing agents**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol-resistant foam.
- **5.2 Special hazards arising from the substance or mixture**
Can be released in the event of a fire:
Carbon monoxide and possibly toxic smoke and smoldering gases as a result of incomplete combustion.
Carbon dioxide (CO₂)
Nitrogen oxides (NO_x)
- **5.3 Instructions for firefighting**
- **Special protective equipment:**
Wear a full protective suit.
Wear self-contained breathing apparatus.
- **Further information**
Collect contaminated extinguishing water separately and do not allow it to enter the sewage system. 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**
Ensure adequate ventilation.
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental protection measures:**
Do not allow to enter drains or waterways.
In case of penetration into water or sewage system, inform the responsible authorities.
Do not allow to enter the subsoil/soil.
In the event of penetration into the ground, inform the responsible authorities.
- **6.3 Methods and material for containment and cleaning:**
Absorb with liquid-binding material (sand, diatomaceous earth, acid binder, universal binder, sawdust).
Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation.
For large quantities: Pump out the product.
- **6.4 Reference to other sections**
For information on safe handling see section 7. For information on personal protective equipment see section 8. For information on disposal see section 13.

SECTION 7: Handling and storage

- **7.1 Protective measures for safe handling**
Ensure good ventilation/extraction at the workplace.
- **Advice on protection against fire and explosion:** Keep ignition sources away - do not smoke.

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- **7.2 Conditions for safe storage in consideration of incompatibilities**
- **Storage:**
- **Requirements for storage rooms and containers:**
Store in a cool place.
During storage, the applicable regulations for the storage of substances hazardous to water must be observed in accordance with the water hazard class (e.g. WHG, VAWS, Extinguishing Water Retention Directive, etc.).
- **Storage instructions:**
Store separately from food.
Observe TRGS 510 (Storage of hazardous substances in portable containers).
- **Further information on storage conditions:**
Protect from frost.
The shelf life indicated on the label refers only to correct storage of closed containers.
- **Recommended storage temperature:** Do not store below 0 °C - very sensitive to frost
- **Storage class:** Storage class 10: Flammable liquids (TRGS 510)
- **Classification according to the Ordinance on Industrial Safety and Health (BetrSichV):**
Substances or mixtures corrosive to metals
- **Storage class according to TRGS 510:** 10
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protective equipment

- **8.1 Parameters to be monitored**
- **Components with limit values that require monitoring at the workplace:**

67-63-0 propan-2-ol

AGW (Germany) long-term value: 500 mg/m³, 200 ml/m³
2(II);DFG, Y

- DNEL values**161907-77-3 Ethanol, 2-butoxy-, production of, by-products from**

Oral DNEL Long-term, systemic effect 2.5 mg/kg bw/d (General public)
Dermal DNEL long-term, systemic effect 25 mg/kg bw/d (general public) Inhalative DNEL
long-term, systemic effect 195 mg/m³ (workers)
117 mg/m³ (general public)

67-63-0 propan-2-ol

Oral DNEL long-term, systemic effect 26 mg/kg bw/d (General public) Dermal DNEL
long-term, systemic effect 888 mg/kg bw/d (Workers)
319 mg/kg bw/d (General public) Inhalative
DNEL long-term, systemic effect 500 mg/m³ (Worker)
89 mg/m³ (general public)

- PNEC values**161907-77-3 Ethanol, 2-butoxy-, production of, by-products from**

PNEC - aqueous systems 0.31 mg/l (seawater)
4.5 mg/l (fresh water)
24.9 mg/l (water (intermittent release)) PNEC -
waste water treatment plant 500 mg/l (waste water treatment plant)
PNEC - Sediment 0.66 mg/kg dw (seawater)
6.6 mg/kg dw (freshwater)
PNEC - soil 1.32 mg/kg dw (soil)

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The glove material must be impermeable and resistant to the product / substance / preparation.

- **Glove material** Nitrile

rubber Butyl rubber

Fluororubber (Viton)

The selection of a suitable glove depends not only on the material, but also on other quality features and varies from manufacturer to manufacturer. Since 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.

- **Penetration time of the glove material**

The exact breakthrough time must be obtained from the protective glove manufacturer and adhered to.

- **Eye/face protection** Basket goggles (CEN: EN 166:2001)

- **Body protection:**

Select personal protective equipment depending on the activity and possible exposure, e.g. apron (CEN: EN 14605:2005+A1:2009), protective boots (CEN: EN ISO 20345:2011), Chemical protective suit (CEN: EN ISO 13688:2013).

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General information**

- **Color**

Yellow

- **Odor:**

After alcohol

- **Odor threshold:**

Not determined.

- **Melting point/freezing point:**

Not determined.

- **Boiling point or start of boiling and**

- **Boiling range**

100 °C

- **Flammability**

Not applicable.

- **Lower and upper explosion limit**

- **Lower:**

Not determined.

- **Upper:**

Not determined.

- **Flash point:**

88 °C (DIN 51 755)

- **Ignition temperature**

The product is not self-igniting.

- **Decomposition temperature:**

Not determined.

- **pH value (10 g/l) at 20 °C:**

3,5

- **Viscosity:**

- **Kinematic viscosity**

Not determined.

- **Dynamic at 20 °C:**

approx. 120 mPas (Brookfield)

- **Solubility**

- **Water:**

Dispersible

- **Partition coefficient n-octanol/water (log-value)**

Not determined.

- **Vapor pressure:**

Not determined.

- **Density and/or relative density**

- **Density at 20 °C:**

0.927 g/cm³

- **Relative density**

Not determined.

- **Vapor density**

Not determined.

- **9.2 Other information**

- **Appearance:**

- **Form:**

Liquid

- **Important information on health, environmental protection and safety**

- **Ignition temperature:**

not determined

- **Explosive properties:**

The product is not explosive.

- **Solvent content:**

- **Organic solvents:**

1,5 %

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- VOC (EU)	1,50 %
- Change of state	
- Evaporation rate	Not determined.
- Information on physical hazard classes	
- Explosive substances/mixtures and articles with explosive	not applicable
- Flammable gases	Not applicable
- Aerosols	not applicable
- Oxidizing gases	Not applicable
- Gases under pressure	not applicable
- Flammable liquids	Not applicable
- 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 and mixtures that come into contact with Flammable gases in water	not applicable
- Oxidizing liquids	Not applicable
- Oxidizing solids	Not applicable
- Organic peroxides	not applicable
- Substances and mixtures corrosive to metals	
May be corrosive to metals.	
- Desensitized substances/mixtures and Products containing explosives	not applicable

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if stored and handled as directed.
- **10.3 Possibility of hazardous reactions** Evolution of highly flammable gases/vapors.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**
None when used as intended.
For decomposition products in the event of fire, see section 5.

SECTION 11: Toxicological information

- **11.1 Information on hazard classes according to Regulation (EC) No. 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **LD/LC50 values relevant for classification:**

93820-33-8 N-(2-Ethylhexyl)isononan-1-amid

Oral LD 50 >2,000 mg/kg (rat) (OECD 401)

92129-33-4 Quaternary ammonium compounds, di-C16-18-alkyldimethyl, chloride

Dermal LD 50 >2,000 mg/kg (rat)

161907-77-3 Ethanol, 2-butoxy-, production of, by-products from

Oral LD 50 2,630 mg/kg (rat)

Dermal LD 50 3,540 mg/kg (rabbit)

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Trade name: Activator AT**Fatty acid, C18 unsaturated, reaction products with triethanolamine, dimethyl sulfate quaternized**

Oral LD 50 5,000 mg/kg (rat)
Dermal LD 50 >2,000 mg/kg (rat)

67-63-0 propan-2-ol

Oral LD 50 4,570 mg/kg (rat) (OECD Test Guideline 401) Dermal
LD 50 >12,800 mg/kg (rabbit) (OECD Test Guideline 402) Inhalative LC
50 (4h) 30-73 mg/l (rat)
LC 50 (6h) >25 mg/l (Rat) (OECD Test Guideline 403)

- **Corrosive/irritant effect on the skin**

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

- **Serious eye damage/irritation**

Causes serious eye damage.

- **Sensitization of the respiratory tract/skin**

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**

67-63-0 propan-2-ol

Oral NOAEL (reproductive toxicity) 500 mg/kg bw/day (rat (parents)) (OECD 415)

- **Specific target organ toxicity at single exposure**

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

- **Specific target organ toxicity with 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**

None of the ingredients are included.

SECTION 12: Environmental information

- **12.1 Toxicity**

- **Aquatic toxicity:**

93820-33-8 N-(2-Ethylhexyl)isononan-1-amid

LC 50 (96h) (static) >1,000 mg/l (zebrafish) (OECD 203)

EC 50 (48h) (static) 0.475 mg/l (Daphnia magna) (OECD 202)

ErC 50 (72h) (static) 0.962 mg/l (Desmodesmus subspicatus) (OECD 201)

67-63-0 propan-2-ol

LC 50 (24h) 9,714 mg/l (Daphnia magna) (OECD 202)

LC 50 (96h) 9,640 mg/l (Pimephales promelas) (OECD

203) LC 50 (48h) 8,970 mg/l (Leuciscus idus)

EC 10 (18h) 5,175 mg/l (Pseudomonas putida) (DIN

38412) EC 50 (48h) 13.299 mg/l (Daphnia magna)

EC 50 (72h) >1,000 mg/l (Desmodesmus subspicatus)

- **12.2 Persistence and degradability** Biodegradable

- **Biodegradability**

67-63-0 propan-2-ol

Biolog. Biodegradability 21 % (OECD 301 E)

99.9 % (OECD 303 A)

- **Other information:** no data available.

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12.3 Bioaccumulative potential
67-63-0 propan-2-ol

BCF 0.19 (clubfish)

- **12.4 Mobility in soil** No further relevant information available.

- **12.5 Results of the PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **12.6 Endocrine disrupting properties**

For information on endocrine disrupting properties see section 11.

- **12.7 Other adverse effects** No further relevant information available.

- **Further ecological information:**

- **AOX note:** The product is free of organohalogen compounds.

- **General information:**

Toxic to aquatic organisms

The surfactant contained in this preparation fulfills (The surfactants contained in this preparation fulfill) the conditions of biodegradability as laid down in Regulation (EC) No.

648/2004 on detergents. Documents confirming this will be kept at the disposal of the competent authorities of the Member States and made available only to them, either directly or at the request of a detergent manufacturer.

Water hazard class 2 (self-classification): clearly hazardous to water

Do not allow to enter ground water, water bodies or drains, even in small quantities.

Danger to drinking water if even small quantities leak into the ground.

SECTION 13: Disposal instructions

- **13.1 Waste treatment processes**

- **Recommendation:**

Must not be disposed of together with household waste. Do not allow to enter the sewage system. Must be subject to special treatment in accordance with official regulations.

- **Waste code number:**

The mentioned waste codes are recommendations based on the intended use of this product. However, special use and disposal conditions at the user may also require a different waste code assignment.

- **European Waste List**

12 03 01* aqueous washing liquids

11 01 11* aqueous rinsing liquids containing dangerous substances

11 01 98* other wastes containing dangerous substances

- **Uncleaned packaging:**

- **Recommendation:**

Disposal in accordance with official regulations.

Contaminated packaging should be emptied optimally and can then be recycled after appropriate cleaning.

- **Recommended cleaning agent:** Water, if necessary with the addition of cleaning agents.

SECTION 14: Transport information

- **14.1 UN number or ID number**

- **ADR, IMDG, IATA**

UN1760

- **14.2 UN proper shipping name**

- **ADR**

UN1760 CORROSIVE LIQUID,
N.O.S. (dialkyldimethylammonium chloride),
ENVIRONMENTALLY HAZARDOUS
CORROSIVE LIQUID, N.O.S.

- **IMDG**

(dialkyldimethylammonium chloride), MARINE
POLLUTANT

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· **IATA** CORROSIVE LIQUID, N.O.S.
(dialkyldimethylammonium chloride)

· **14.3 Transport hazard classes**

· **ADR**



· **Class** 8 (C9) Corrosive substances
· **Hazard label** 8

· **IMDG**



· **Class** 8 Corrosive substances
· **Label** 8

· **IATA**



· **Class** 8 Corrosive substances
· **Label** 8
· **14.4 Packaging group**
· **ADR, IMDG, IATA** III
· **14.5 Environmental hazards:**
· **Marine pollutant:** Yes
 · **Special marking (ADR):** Symbol (fish and tree)
 Symbol (fish and tree)
· **14.6 Special precautions for the user**
 User Attention: Corrosive substances
· **Number to identify the hazard**
 (Kemler number): 80
· **EMS number:** F-A,S-B
· **Stowage Category** A
· **Stowage Code** SW2 Clear of living quarters.
· **14.7 Transport of bulk goods by sea**
 according to IMO instruments Not applicable.

· **Transportation/further information:**

· **ADR**
· **Limited quantity (LQ)** 5L
· **Released quantities (EQ)** Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml
· **Transport category** 3
· **Tunnel restriction code** E

· **IMDG**

· **Limited quantities (LQ)** 5L

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- **Excepted quantities (EQ)** Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml
- **UN "Model Regulation":** UN 1760 CORROSIVE LIQUID, N.O.S. (DIALKYLDIMETHYLAMMONIUM CHLORIDE), 8, III, DANGEROUS FOR THE ENVIRONMENT

SECTION 15: Legislation

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients are included.
- **Seveso category** E1 Hazardous to the aquatic environment
- **Quantity threshold (in tons) for use in lower-tier establishments** 100 t
- **Quantity threshold (in tons) for use in upper-tier establishments** 200 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Restriction conditions: 3
- **National regulations:**
- **Notes on employment restrictions:**
Observe employment restrictions for young people.
- **Technical guidance on air:**
- **Class Share in %**
- **NK** 1-<3
- **Water hazard class:**
WGK 2 (self-classification): clearly hazardous to water.
AwSV (Germany) of 18.4.2017, Annex 1
- **Other regulations, restrictions and prohibitions**
The surfactant contained in this preparation fulfills (The surfactants contained in this preparation fulfill) the conditions of biodegradability as laid down in Regulation (EC) No. 648/2004 on detergents. Documents confirming this will be kept at the disposal of the competent authorities of the Member States and made available only to them, either directly or at the request of a detergent manufacturer.
Observe TRGS 510 (Storage of hazardous substances in portable containers).
- **BG leaflet:**
M 004 "Irritant substances/corrosive substances"
M 053 "General occupational safety measures for handling hazardous substances"
- **15.2 Chemical safety assessment:** A chemical safety assessment has not been carried out.

SECTION 16: Other information

The information is based on our current state of knowledge, but does not constitute a guarantee of product properties and does not establish a contractual legal relationship.

- **Relevant sentences**
H225 Highly flammable liquid and vapor. H315 Causes skin irritation.
H318 Causes serious eye damage. H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness. H400 Very toxic to aquatic organisms.
H410 Very toxic to aquatic life with long lasting effects.
- **Version number of the previous version:** 3,000
- **Abbreviations and acronyms:**
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods

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