

Material Safety Data Sheet (MSDS)

Activonol-M

SECTION 1 : PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Name	: Activonol-M
Use of the Substance/Preparation	: Cosmetic additive
1.2 Manufacturer/Supplier/Distributor Information	
Manufacturer	: ActivON Co., Ltd.
Address	: (363-888) 977, Sungjae-ri, Ochang-eup, Cheongwon-gu, Cheongju-city, Chungcheongbuk-do
Emergency number	: Tel 82-31-206-7461, Fax 82-31-206-7462
Supplier/Distributor	: ActivON Co., Ltd.
Address	: (16681) Digital empire II 103-410, 88, Sinwon-ro, Yeongtong-gu, Gyeonggi-do, Korea
Emergency number	: Tel 82-31-893-8882, Fax 82-70-8786-5200 E-mail activon@activon.kr

SECTION 2: HAZARDS IDENTIFICATION

Classification in accordance to Directive No. 1272/2008/EC (CLP)

2.1 Hazard. Risk Classification: Eye Irritation 2; Aquatic Chronic 3

2.2 Label elements including precautionary statements

Symbol:



Signal Word:

Warning

Hazard Risk Statement:

H319: Causes serious eye irritation

H412: Harmful to aquatic life which long lasting effect

Precautionary Statements:

P264: Wash thoroughly after handling the treated area.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P321: Keep emergency medical attention.

P391: Collect spillage.

P302+P352: If on skin: Wash with plenty of soap and water.

P332+P313: If skin irritation occurs: Get medical advice/attention.

P362+P364: Take off contaminated clothing and wash it before reuse.

P305+P351+P338: If in eyes: Rinse cautiously with water for several minutes.

Remove contact lenses if present and easy to do – continue rinsing.

P337+P313: If eye irritation persists : Get medical advice/attention

2.3 Other Hazard. Risk which are not included in the classification criteria

Physical hazards: None

Ecological hazards: None

SECTION 3: INGREDIENT

3.1 Substances

Product Name: Activonol-M

Composition: Hydroxyacetophenone, Caprylyl Glycol, Dipropylene Glycol, Dipotassium Glycyrrhizate

INCI name	CAS No.	EC No	Composition	Classification
Hydroxyacetophenone	99-93-4	202-802-8	25-50	H319, H412
Caprylyl Glycol	1117-86-8	214-254-7	10-25	H319
Dipropylene Glycol	110-98-5	203-821-4	25-60	-
Dipotassium Glycyrrhizate	68797-35-3	272-296-1	<0.1	-

3.2 Mixtures

Activonol-M consists of approximately 25-50% Hydroxyacetophenone, 10-25% Caprylyl Glycol, 25-60% Dipropylene Glycol, <0.1% Dipotassium Glycyrrhizate

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General remark: Consult a physician. Show this safety data sheet to the doctor in attendance.

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Eyes: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin: Wash off with soap and plenty of water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information

No data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Normal measures for preventive fire protection.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION



HEADQ

Digital Empire II, 103-410, 88, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16681, Korea

TEL: 82-31-893-8882 / FAX: 82-70-8786-5200 / activon@activon.kr / www.activon.kr

FACTORY

977 Sungjae-ri, Ochang-eup, Cheongwon-gu, Cheongju-si, Chungcheongbuk-do, 363-888

TEL: 82-31-893-8882 / FAX: 82-70-8786-5200 / activon@activon.kr / www.activon.kr

- 8.1 Respiratory Protection : At a minimum, workers should wear a NIOSH-approved full-face air-purifying respirator.
- 8.2 Eye Protection : Chemical Safety goggles.
- 8.3 General Hygiene Measures : wash thoroughly after handling
- 8.4 Ventilation : Mechanical exhaust required.
- 8.5 Skin Protection : Chemical resistant gloves.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 Appearance : Transparent liquid
- 9.2 Odour: Characteristic
- 9.3 Odour threshold: No data available
- 9.4 pH: No data available
- 9.5 Melting point/freezing point: 5~10 °C
- 9.6 Initial boiling point and boiling range: No data available
- 9.7 Flash point : 139 °C
- 9.8 Evaporation rate: No data available
- 9.9 Flammability (solid, gas): No data available
- 9.10 Upper/lower flammability or explosive limits: No data available
- 9.11 Vapor pressure: No data available
- 9.12 Solubility: 3% in water, miscible in glycol
- 9.13 Vapor density: No data available
- 9.14 Relative density: No data available
- 9.15 Partition coefficient: n-octanol/water: No data available
- 9.16 Auto-ignition temperature: No data available
- 9.17 Decomposition temperature: No data available
- 9.18 Viscosity: No data available
- 9.19 Particle Size : No data available
- 9.20 Molecular mass: No data available

SECTION 10: STABILITY AND REACTIVITY

- 10.1 Reactivity
no data available
- 10.2 Chemical stability
Stable under recommended storage conditions.
- 10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

no data available

10.5 Incompatible materials

Strong oxidizing agents Strong oxidizing agents, Strong bases

10.6 Hazardous decomposition products

Other decomposition products - no data available

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

a) Acute toxicity

Hydroxyacetophenone	: LD50 Oral – mouse – 1.500 mg/kg
Caprylyl Glycol	: LD50 Oral – Rat – 2.000 mg/kg
Dipropylene glycol	: LD50 Oral – rat – male and female - >5.000 mg/kg LC50 Inhalation – rat – male and female – 4h - >2.34 mg/l

b) Skin corrosion

Hydroxyacetophenone	: Skin – Rabbit Result: Not irritating
Caprylyl Glycol	: Skin – Rabbit Result : Irritating to eyes
Dipropylene glycol	: Skin – Rabbit Result : Not irritating

c) Serious eye damage

Hydroxyacetophenone	: Eyes – Rabbit (EPA OTS 798.4500) Result : Irritating
Caprylyl Glycol	: Eyes – Rabbit Result : Irritating to eyes
Dipropylene glycol	: Eyes – rabbit Result : No eye irritation

d) Respiratory/skin sensitization

Hydroxyacetophenone: in vivo-	Guinea pig Not sensitization (EPA OTS 798. 4100)
Caprylyl Glycol	: in vivo assay – Mouse Dose not cause skin sensitization
Dipropylene glycol	: Buehler Test – guinea gig

Did not cause sensitization on laboratory animals

e) Germ cell mutagenicity

Hydroxyacetophenone	: In vitro Ames test Salmonella typhimurium strains TA 98, 100, 1535, 1537, 1538 Result : negative
Caprylyl Glycol	: In vitro mammalian cell gene mutation test Chinese hamster lung cells Result : negative Ames test Result : Not mutagenic in Ames test
Dipropylene glycol	: In vitro assay Lymphocyte Result : negative Mutagenicity (micronucleus test) Rat – male

f) Carcinogenicity

Hydroxyacetophenone	: IARC : No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Caprylyl Glycol	: IARC : No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Dipropylene glycol	: IARC : No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

g) Reproductive Toxicity

Hydroxyacetophenone	: Reproductive toxicity – rat – Oral Effects on Fertility : Litter size (e.g.;#fetuses per litter; measured Before birth)
Caprylyl Glycol	: no data available
Dipropylene glycol	: Reproductive toxicity – rat – Oral Maternal effects : Other effects.

h) Specific target organ toxicity (single exposure) No data available.

i) Specific target organ toxicity (repeated exposure) No data available.

j) Aspiration hazard

No data available.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish

Hydroxyacetophenone	: No data available
Caprylyl Glycol	: LC50 218.388 mg/l 96 hr
Dipropylene glycol	: LC50 1888.3 mg/l 96 hr

Toxicity to crustacea

Hydroxyacetophenone	: No data available
Caprylyl Glycol	: EC50 117.346 mg/l 48 hr
Dipropylene glycol	: LC50 1841.9 mg/l 48 hr Daphnia magna

Toxicity to algae

Hydroxyacetophenone	: ErC50 6.3 mg/l 72 hr (GLP)
Caprylyl Glycol	: EC50 48.33.8 mg/l 96 hr
Dipropylene glycol	: EC50 1064.8 mg/l 96 hr

12.2. Persistence and degradability

Persistence

Hydroxyacetophenone	: 1.1934 log Kow
Caprylyl Glycol	: EC50 48.338 mg/ l 96 hr
Dipropylene glycol	: 1.07 log Kow

Degradability

No data available

12.3. Bioaccumulative potential

Condensability

Hydroxyacetophenone:	1.1934
Caprylyl Glycol	: 5.904
Dipropylene glycol	: 1.4 ~ 0.3

Biodegradable

Hydroxyacetophenone:	1.1934
Caprylyl Glycol	: 5.904
Dipropylene glycol	: 1.4 ~ 0.3

12.4. Mobility in soil (and other compartments if available)

Hydroxyacetophenone : 108.2

Caprylyl Glycol : 10.62

12.5. Results of PBT and vPvB assessment No data available

12.6 Additional information

Fish(Oncorhynchus mykiss) 96hr LC50=25mg/L(GLP)(ECHA), crustacea(Daphnia magna) 48hr EC50=50mg/L(GLP), 21d NOEC=1mg/L(OECD Guideline 211)(ECHA), algae(Selenastrum capricornutum) 72hr Er50=6.3mg/L, 72 NOEC=2.8mg/L(EPA OTS 797.1050, GLP)(ECHA)

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION**Land transport**

ADR Not classified as a dangerous good under transport regulations

RID Not classified as a dangerous good under transport regulations

Inland waterway transport

AND Not classified as a dangerous good under transport regulations

Sea transport

IMDG Not classified as a dangerous good under transport regulations

Air transport

IATA/ICAO Not classified as a dangerous good under transport regulations

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
no data available

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

16. Other information

16.1 Information source and references: ActivON Co., Ltd.

16.2 Issuing date: March 10th, 2016

16.3 Revision number and date: V2.0 March 4th, 2019

16.4 others



HEADQ

Digital Empire II, 103-410, 88, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16681, Korea
TEL: 82-31-893-8882 / FAX: 82-70-8786-5200 / activon@activon.kr / www.activon.kr

FACTORY

977 Sungjae-ri, Ochang-eup, Cheongwon-gu, Cheongju-si, Chungcheongbuk-do, 363-888
TEL: 82-31-893-8882 / FAX: 82-70-8786-5200 / activon@activon.kr / www.activon.kr