

Safety Data Sheet

according to 1907/2006/EC, Article 31, (Commission Regulation (EU) 2020/878)

Trade name: **Epi-On®**

Version: 8

Revision: 2023.03.25

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name **Epi-On®**
CAS number **1272659-40-1 (and) 7732-18-5 (and) 107-88-0**

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

Recommended Use	SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites SU21 Consumer uses: Private household/general public/consumers SU22 Professional uses
Uses advised against	Not determined
Product category	Not determined
Process category	Not determined

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier
CORUM INC.
6FL., No.360, Ruei Guang Rd.,
Neihu Dist., Taipei 114729, Taiwan
Further information obtainable from
marketing@corum.com.tw

1.4 Emergency telephone number

Company phone number CORUM Tel. 886-2-8751-6060
Fax. 886-2-8751-6363

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008
This substance is not classified according to the CLP regulation

2.2 Label elements

Label according to Regulation (EC) No 1272/2008
Not applicable

2.3 Other hazards

Results of PBT and vPvB assessment
Not applicable
The substance does not have endocrine disrupting properties.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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3.1 Substances

Not applicable

3.2 Mixtures

Composition/information on ingredients

Name	Product Identifier	Classification	SCLs, M-Factors	Concentration (% w/w)
Azelamidopropyl Dimethyl Amine	(CAS No.) 1272659-40-1	-	-	48-52%
Water	(CAS No.) 7732-18-5 (EC No.) 231-791-2	Not Classified	-	35-40%
1,3-Butylene glycol	(CAS No.) 107-88-0 (EC No.) 203-529-7	Not Classified	-	10-15%

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General information	Remove contaminated clothing. Seek medical treatment.
After inhalation	Supply fresh air. Consult a doctor in case of complaints.
After skin contact	Immediately wash with soap and copious amounts of water. If symptoms develop, seek medical attention.
After eye contact	Check and remove any contact lenses. Rinse opened eye for 15 minutes under running water. If symptoms persist, consult a doctor.
After swallowing	Rinse mouth with water. Call a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms No further relevant information available

4.3 Indication of any immediate medical attention and special treatment needed

Note to physicians No further relevant information available

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

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

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Unsuitable extinguishing media

Not determined

5.2 Special hazards arising from the substance or mixture

No further relevant information available

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

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. For personal protection see section 8.

Avoid contact with skin, eyes and clothes.

6.2 Environmental precautions

Do not allow product to reach sewage system or any water course.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, and sawdust). Sweep up, place in a bag and hold for waste disposal.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE

7.1 Precaution for safe handling

Advice on safe handling

No special precautions are necessary if used correctly.
Avoid free fall and splashing.
Prevent the risk of slipping.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Protect from contacting with light, heat and moisture. Store in tightly closed container at 25°C. It is best to use the entire contents of the pack after opening.

Incompatible materials

None known based on information supplied

Storage class (VbF)

No

7.3 Specific end use(s)

No further relevant information available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

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Exposure limits	The product does not contain relevant quantities of materials with critical values that have to be monitored at the workplace.
DNEL	Not determined
PNEC	Not determined
Additional information	The valid lists during this review were used as a basis.

8.2 Exposure controls

Personal protective equipment

Respiration protection Not necessary if room is well-ventilated

Hands protection

Protective gloves



The glove material has to be impermeable and resistant to the product/the substance/the preparation. Due to missing tests no recommendation to the glove material can be given for the product/the preparation/the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection Chemical safety goggles

General protective measure Avoid contact with the eyes and skin.

General hygiene measure The usual precautionary measures are to be adhered to when handling chemicals.

Environmental exposure controls No further relevant information available

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical State	Liquid
Appearance	Liquid
Color	Clear to yellow
Odor	Typical
Odor threshold	Not determined

Property

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pH value (30% aq.)	5.0-7.0
Melting point/Melting range	Not determined
Boiling point/Boiling range	Not determined
Flash point	Not determined
Flammability (solid, gaseous)	Not applicable
Ignition temperature	Not determined
Decomposition temperature	Not determined
Self-igniting	Product is not self-igniting.
Danger of explosion	Product does not present an explosion hazard.
Explosion limit	
Lower	Not determined
Upper	Not determined
Oxidizing properties	Not determined
Explosive properties	Not determined
Vapor pressure	Not determined
Vapor density	Not determined
Relative density	Not determined
Evaporation rate	Not determined
Solubility	Not determined
Partition coefficient (n-octanol/water at 25 °C)	Not determined
Kinematic viscosity	Not applicable
Dynamic viscosity	Not determined

9.2 Other information

Surface tension	Not determined
Dissociation constant	Not determined
Granulometry	Not determined

Information with regard to physical hazard classes

Explosives	Not determined
Flammable Gases and Chemically Unstable Gases	Not determined
Flammable Aerosols	Not determined
Oxidising Gases	Not determined
Gases Under Pressure	Not determined
Flammable Liquids	Not determined
Flammable Solids	Not determined
Self-reactive Substances and Mixtures	Not determined
Pyrophoric Liquids	Not determined
Pyrophoric Solids	Not determined
Self-heating Substances and Mixtures	Not determined
Substances and Mixtures which in contact with water emit flammable gases	Not determined
Oxidising Liquids	Not determined
Oxidising Solids	Not determined
Organic Peroxides	Not determined
Substances and Mixtures corrosive to Metals	Not determined
Desensitized Explosives	Not determined

SECTION 10: STABILITY AND REACTIVITY

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10.1 Reactivity

Not determined

10.2 Chemical stability

The product is stable under ordinary condition.

Thermal decomposition/conditions to be avoided

No decomposition if used according to specifications

10.3 Possibility of hazardous reactions

No dangerous reactions known

10.4 Conditions to avoid

No further relevant information available

10.5 Incompatible material

Strong oxidizing agents

Strong acids

Strong bases

10.6 Hazardous decomposition products

No further relevant information available

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

LD/LC50 values relevant for classification

None of the components is classified as hazardous for acute oral, dermal or inhalation exposure.

Primary Irritant effect

Skin corrosion/irritation

None of the components is classified as skin irritant.

Serious eye damage/irritation

Not irritating effect

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

Respiratory tract

Not determined

Respiratory/skin sensitization

None of the components is classified as skin sensitizer.

Respiratory sensitization not determined

Additional toxicological information

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

Toxicokinetics, metabolism and distribution

Not determined

Repeated dose toxicity

Not determined

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

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Germ Cell mutagenicity	None of the components is classified as mutagenic.
Carcinogenicity	Not determined
Reproductive toxicity	Not determined
STOT-single exposure	Not determined
STOT-repeated exposure	Not determined
Aspiration hazard	Not determined

11.2 Information on other hazards

Endocrine disrupting properties Substance is not listed

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Watertic toxicity

None of the components is classified as hazardous for acute Watertic toxicity

12.2 Persistence and degradability

No further relevant information available

12.3 Bioaccumulative potential

No further relevant information available

12.4 Mobility in soil

No further relevant information available

12.5 Results of PBT and vPvB assessment

Not applicable

12.6 Endocrine disrupting properties

Substance is not listed

12.7 Other adverse effects

No further relevant information available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Recommendation

Observe community, national or regional regulations for waste handling and treatment.

13.2 Uncleaning packaging

Recommendation

Disposal must be made according to official regulations. Packaging may be reused or recycled after cleaning. Packaging that may not be cleansed are to be disposed of in the same manner as the product.

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SECTION 14: TRANSPORT INFORMATION

14.1 UN number or ID number

ADR/RID	Not applicable
ADN	Not applicable
IMDG	Not applicable
IATA	Not applicable

14.2 UN proper shipping name

ADR/RID	Not applicable
ADN	Not applicable
IMDG	Not applicable
IATA	Not applicable

14.3 Transport hazard class(es)

ADR/RID	Not applicable
ADN	Not applicable
IMDG	Not applicable
IATA	Not applicable

14.4 Packing group

ADR/RID	Not applicable
ADN	Not applicable
IMDG	Not applicable
IATA	Not applicable

14.5 Environmental hazard

Marine pollutant	No
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14.6 Special precautions for user

Special precaution for user	Not applicable
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14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

14.8 ICAO/ IATA –DGR

Not regulated as a dangerous good

SECTION 15: REGULATORY INFORMATION

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

Inventory - United States - Toxic Substances Control Act (TSCA)

107-88-0 Butylene glycol

7732-18-5 Water

Canada Domestic Substances List (DSL)

107-88-0 Butylene glycol

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7732-18-5 Water

Canada - Non-Domestic Substances List (NDSL)

Substance is not listed

European Inventory of Existing Chemical Substances (EINECS)

107-88-0 Butylene glycol

7732-18-5 Water

Japan Existing and New Chemical Substances (ENCS)

107-88-0 Butylene glycol

7732-18-5 Water

China Inventory of Existing Chemical Substance (IECSC)

107-88-0 Butylene glycol

7732-18-5 Water

Korean Existing and Evaluated Chemical Substances (KECL)

107-88-0 Butylene glycol

7732-18-5 Water

Philippines Inventory of Chemicals and Chemical Substances (PICCS)

107-88-0 Butylene glycol

7732-18-5 Water

Australian Inventory of Chemical Substances (AICS)

107-88-0 Butylene glycol

7732-18-5 Water

New Zealand Inventory of Chemicals

107-88-0 Butylene glycol

7732-18-5 Water

TCSI - Taiwan Chemical Substance Inventory

107-88-0 Butylene glycol

7732-18-5 Water

OECD - List of High Production Volume Chemicals

107-88-0 Butylene glycol

7732-18-5 Water

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex II

Substance is not listed

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

Substance is not listed

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

Substance is not listed

National regulations

Other regulations, limitations and prohibitive regulations

Not determined

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Substances of very high concern (SVHC) according to REACH, Article 59(10)

Not determined

15.2 **Chemical safety assessment**

A chemical safety assessment has not been carried out.

SECTION 16: OTHER INFORMATION

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Abbreviations and acronyms

NOAEL: Non Observed Adverse Effect Level
LOAEL: Lowest Observed Adverse Effect Level
WAF: Water Accommodated Fraction
NOEC: No Observed Effect Concentration
GHS: Globally Harmonized System of Classification and Labeling Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstract Service (division of the American Chemical Society)
VbF: Ordinance on the storage of combustible liquids, Austria
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
STOT: Specific target organ toxicity
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
PBT: Persistent Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative

Sources

Own data from manufacture
Chemical safety report according to REACH registration dossier