



## Safety Data Sheet

according to 1907/2006/EC, Article 31

Trade name: **Azelaic Acid**

Version: 6

Revision: 2022.05.06

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

#### 1.1 Product identifier

**Trade name** Azelaic Acid  
**CAS number** 123-99-9

#### 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 households/general public/consumers  
SU22 Professional uses

**Uses advised against** Not determined

**Product category** PC39 Cosmetics, personal care products

**Process category** PROC 1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions  
PROC 2: Use in closed, continuous process with occasional controlled exposure.  
PROC 3: Use in closed batch process (synthesis or formulation).  
PROC 5: Mixing or blending in batch processes  
PROC 8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities.  
PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities.  
PROC 9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing).  
PROC 14: Production of preparations or articles by tableting, compression, extrusion, pelletisation.  
PROC 15: Use as laboratory reagent

**Environmental release category** ERC 2: Formulation into mixture

**Application of the substance / the mixture** Cosmetic  
Skin cosmetics  
Cosmetic Active Agent  
Cosmetic auxiliary

#### 1.3 Details of the supplier of the safety data sheet

**Manufacturer/Supplier**  
CORUM INC.  
6FL., No.360, Ruei Guang Rd.,  
Neihu Dist, Taipei 11492, Taiwan  
**Further information obtainable from**  
[marketing.support@corum.com.tw](mailto:marketing.support@corum.com.tw)

#### 1.4 Emergency telephone number

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

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### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008**

GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

#### 2.2 Label elements

**Label according to Regulation (EC) No 1272/2008**

The substance is classified and labelled according to the CLP regulation.

**Hazard Pictograms**

GHS07

**Signal word**

Warning

**Hazard statements**

H315 causes skin irritation

H319 causes serious eye irritation

**Precautionary statements**

P280

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

P264

Wash thoroughly after handling.

P302+P352

If on skin: wash with plenty of water.

P305+P351+P338

If in eyes: rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313

If skin irritation occurs: Get medical advice/attention.

P337+P313

If eye irritation persists: Get medical advice/attention.

P362+P364

Take off contaminated clothing and wash it before reuse.

#### 2.3 Other hazards

**Results of PBT and vPvB assessment****PBT:**

The substance does not meet the PBT criteria (not PBT) according to (EC) 1907/2006, Annex XIII.

**vPvB:**

The substance does not meet the vPvB criteria (not vPvB) according to (EC) 1907/2006, Annex XIII.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Chemical characterization: Substances

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### 3.2 Composition/information on ingredients

Chemical Name	CAS No.	EC No.	Specific concentration limits
Nonanedioic acid (azelaic acid)	123-99-9	204-669-1	Skin Irrit. 2; H315: C ≥ 50 %

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

#### General information

Take affected persons out into the fresh air.  
Do not leave affected persons unattended.  
Seek medical treatment.

#### After inhalation

If breathing, move person into fresh air. If not breathing, give artificial respiration. Get medical attention.

#### After skin contact

Immediately rinse with water. Remove contaminated clothing, contaminated footwear and dispose of safely. Wash clothing before reuse. Get medical attention if symptoms occur.

#### After eye contact

Immediately flush eyes with copious amounts of water for at least 15 minutes. Check for and remove any contact lenses. Do not let the victim rub eyes. Dust and process vapors may cause eye irritation. Seek medical treatment.

#### After swallowing

Do not induce vomiting; call for medical help immediately. Rinse mouth with plenty of water. If a person is vomiting while laying on his back, place him in the recovery position (turned onto his side).

### 4.2 Most important symptoms and effects, both acute and delayed

#### Symptoms

Temporary skin irritation (pruritus, burning or and stinging)  
Eye irritation

### 4.3 Indication of any immediate medical attention and special treatment needed

#### Note to physicians

Treatment should be in general symptomatic to relieve any effects.

## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1 Extinguishing media

#### Suitable extinguishing media

Use fire extinguishing methods suitable to surrounding conditions.

SMALL FIRE: Dry powder or carbon dioxide (CO<sub>2</sub>) extinguisher, dry sand or fire fighting foam

LARGE FIRE: Use water spray, water fog or foam. DO NOT use direct water jet.

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### Unsuitable extinguishing media

Water with full jet

### 5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Carbon oxides (CO<sub>x</sub>)

Carbon monoxide (CO)

### 5.3 Advice for firefighters

Wear self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

#### **Additional Information**

Combustible powder

Cool endangered receptacles with water spray

See section 9: information on powder explosibility

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes and clothes.

Ensure adequate ventilation.

Avoid formation of dust.

Keep away from ignition sources.

Use respiratory protective device against the effects of fumes/dust/aerosol.

Keep unnecessary and unprotected personnel from entering.

Avoid contact with the spilled material. Do not touch or walk through spilled material.

Stop or contain leak at the source if safe to do so.

### 6.2 Environmental precautions

Do not allow to enter sewers/surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

### 6.3 Methods and material for containment and cleaning up

Use non-sparking tools.

\* Small spillage:

Pick up mechanically. Clean the area with water.

Dispose of the material collected according to regulations.

\* Large spillage:

Large spills may be shoveled into containers.

Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the wastewater collection system. Keep in suitable, closed containers for 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.

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### SECTION 7: HANDLING AND STORAGE

#### 7.1 Precaution for safe handling

##### Advice on safe handling

Prevent formation of dust.  
 Ensure good ventilation/exhaustion at the workplace.  
 Open and handle receptacle with care.  
 Protect from heat.  
 Keep ignition sources away - Do not smoke.  
 Use explosion-proof apparatus / fittings and spark-proof tools.

#### 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 in a dry place.

##### Incompatible materials

Store away from oxidizing agents.

##### 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

##### Exposure limits

Not required

##### DNEL

CAS: 123-99-9 azelaic acid		
Oral	DNEL systemic effects, long-term	2.5 mg/kg bw/day (population)
Dermal	DNEL systemic effects, long-term	5 mg/kg bw/day (population)
		10 mg/kg bw/day (workers)
Inhalative	DNEL systemic effects, long-term	4.348 mg/m <sup>3</sup> (population)
		17.632 mg/m <sup>3</sup> (workers)

##### PNEC

CAS: 123-99-9 azelaic acid	
PNEC water (freshwater)	0.02 mg/L (Freshwater invertebrates)
PNEC water (marine water)	0.002 mg/L (Marine water invertebrates)
PNEC sediment (marine water)	0.00931 mg/kg sed dw (marine water sediment organisms)
PNEC soil	0.00687 mg/kg soil dw (soil micro-organisms)
PNEC STP	912 mg/L (Micro-organisms)
PNEC water (int releases)	0.16 mg/L (Fish)

##### Additional information

The valid lists during this review were used as a basis.

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**8.2 Exposure controls****Appropriate engineering controls**

Applying good personal hygiene practices, such as the proper handling of contaminated clothing, the use of washing facilities before entering public areas, and the restriction of eating, drinking, and smoking in designated areas are essential to prevent chemical contamination.

If user operations generate dust, fume or mist, use local exhaust ventilation or other engineering controls to keep exposure to airborne contaminants below the exposure limit. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Ventilation equipment should be explosion-resistant if explosive concentrations of material are present.

**Personal protective equipment****Respiration protection**

Use suitable respiratory protective device in case of insufficient ventilation. Recommended exposure limits have not been established for this material. Whether there is a need for respiratory protection under court conditions of handling of this material should be evaluated by a qualified health specialist.

**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.

**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**

Tightly sealed goggles 

Wear safety glasses meeting the specifications of ansi standard Z87.1 where no contact with the eye is anticipated. Chemical safety goggles meeting the specifications of ansi standard Z87.1 should be worn whenever there is the possibility of splashing or other contact with the eyes.

**General protective measure**

Avoid contact with the eyes and skin.

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**General hygiene measure**

Do not inhale dust/smoke/mist.  
All skin and mucous membranes with potential exposure have to be protected with appropriate PPE.

**Environmental exposure controls**

No further relevant information available

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

已註解 [CM1]: 比對後替換為更新 SDS 的數據

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

<b>Physical State</b>	Powder
<b>Appearance</b>	Powder
<b>Color</b>	White
<b>Odor</b>	Characteristic
<b>Odor threshold</b>	Not determined
 <b><u>Property</u></b>	
<b>pH value (5%)</b>	Not determined
<b>Melting point/Melting range</b>	105-109 °C (peer-reviewed literature)
<b>Boiling point/Boiling range</b>	357.1 °C (peer-reviewed literature)
<b>Flash point</b>	180 °C (Open cup)
<b>Flammability (solid, gaseous)</b>	Product is not flammable.
<b>Ignition temperature</b>	Not determined
<b>Decomposition temperature</b>	Not determined
<b>Self-igniting</b>	Not determined
<b>Danger of explosion</b>	Product does not present an explosion hazard.
<b>Explosion limit</b>	
<b>Lower</b>	50 g/m <sup>3</sup> (0.75 micron powder)
<b>Upper</b>	Not determined
<b>Oxidizing properties</b>	Not determined
<b>Explosive properties</b>	Not determined
<b>Vapor pressure at 25 °C</b>	<1.33E-4 hPa (peer-reviewed database)
<b>Vapor density</b>	1.03 g/cm <sup>3</sup>
<b>Relative density at 25 °C</b>	1225 g/m <sup>3</sup> (peer-reviewed literature)
<b>Evaporation rate</b>	Not determined
<b>Solubility</b>	
<b>water at 20 °C:</b>	2.4 g/l (peer-reviewed literature)
<b>alcohols at 20 °C:</b>	N.D. g/l (SOLUBLE)
<b>Partition coefficient (n-octanol/water at 20 °C)</b>	1.57 log POW (peer-reviewed database)
<b>Kinematic Viscosity</b>	Not applicable
<b>Dynamic Viscosity</b>	Not applicable

**9.2 Other information****Important information on protection of health and environment, and on safety**

<b>Explosive properties</b>	The product is not explosive.
<b>Softening point/range</b>	Not applicable
<b>Oxidising properties</b>	According to the structure, this substance has no oxidizing properties.

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**Information with regard to physical hazard classes**

<b>Explosives</b>	Not applicable
<b>Flammable gases</b>	Not applicable
<b>Aerosols</b>	Not applicable
<b>Oxidising gases</b>	Not applicable
<b>Gases under pressure</b>	Not applicable
<b>Flammable liquids</b>	Not applicable
<b>Flammable solids</b>	Not applicable
<b>Self-reactive substances and mixtures</b>	
	Not applicable
<b>Pyrophoric liquids</b>	Not applicable
<b>Pyrophoric solids</b>	Not applicable
<b>Self-heating substances and mixtures</b>	
	Not applicable
<b>Substances and mixtures, which emit flammable gases in contact with water</b>	
	Not applicable
<b>Oxidising liquids</b>	Not applicable
<b>Oxidising solids</b>	Not applicable
<b>Organic peroxides</b>	Not applicable
<b>Corrosive to metals</b>	Not applicable
<b>Desensitised explosives</b>	Not applicable
<b>Surface tension</b>	Not applicable
<b>Dissociation constant</b>	pKa: 4.55 International Union of Pure and Applied chemistry London: Butterworth (1961), cited in HSDB
<b>Granulometry</b>	Not determined
<b>Additional information</b>	Azelaic acid powder explosibility data (test results for 0.75 micron powder) Minimum oxygen for combustion (MOC): 11.59 % Minimum Ignition Energy: 5-10 mJ Maximum explosion pressure (Pmax): 7.7 bar Maximum rate of pressure rise (DP/DT Max): 665 bar/sec

### SECTION 10: STABILITY AND REACTIVITY

**10.1 Reactivity**

No hazardous reactions if stored and handled as prescribed/indicated.

**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 hazardous reactions if stored and handled as prescribed/indicated.

**10.4 Conditions to avoid**

Avoid creating or accumulating fines or dusts.

Protect from contacting with light, heat and moisture.

**10.5 Incompatible materials**

Strong oxidizing agents.



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**10.6 Hazardous decomposition products**

No hazardous decomposition products if stored and handled as prescribed/indicated.

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects****Acute toxicity** Based on available data, the classification criteria are not met.**LD/LC50 values relevant for classification**

The values used for classification are taken by analogy to substances of similar structure.

CAS: 123-99-9 azelaic acid		
Oral	LD50	>10,000 mg/kg (rat) (OECD 401 with CAS 334-48-5)
	LD50	>2,000 mg/kg bw (rat) (OECD 401) with CAS 124-07-2)
Dermal	LD50 (static)	>2,000 ml/ kg bw (rabbit) (OECD 434) with CAS 57-11-4)
Inhalative	LC50/4 h	>0.152 mg/L/air (rat) (flowing stream of saturated vap. with CAS 124-07-2)

**Primary Irritant effect****Skin corrosion/irritation**

Irritant to skin  
 Skin irritation has been reported in exposure to animals and workers handling azelaic acid (peer reviewed database).  
 Bingham, E.; Cohrssen, B.; Powell, C.H.; Patty's Toxicology Volumes 1-9 5th ed. ohn Wiley & Sons. New York, N.Y. (2001)., p. 5:772]  
 Classification by analogy to substances of similar structure.  
 CAS number: 68937-75-7  
 Method: equivalent or similar to OECD Test Guideline 404 (Acute skin irritation/corrosion)  
 Species: Rabbit

**Serious eye damage/irritation**

Adverse effects observed (irritating).  
 Eye irritation has been reported in exposure to animals and workers handling azelaic acid (peer reviewed database).  
 Bingham, E.; Cohrssen, B.; Powell, C.H.; Patty's Toxicology Volumes 1-9 5th ed. ohn Wiley & Sons. New York, N.Y. (2001)., p. 5:772]  
 Classification by analogy to substances of similar structure.  
 CAS number: 334-48-5  
 Equivalent or similar to OECD 405 (Acute Eye Irritation/Corrosion) in rabbits, New Zealand White (male)

**Respiratory/skin sensitization**

Based on available data, the classification criteria are not met.  
 Method study: equivalent or similar to OECD Guideline 406 (Skin Sensitisation)

**Additional toxicological information****Toxicokinetics, metabolism and distribution**

Azelaic acid is excreted through urine (mean of 76.9% of infused dose). Reported in HDSB, Bertuzzi A et al; Clin Pharmacokinet 20 (5):411-9 (1991)

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**Repeated dose toxicity** Based on available data, the classification criteria are not met.  
Read across from structural analogue CAS 112-85-6.

CAS: 123-99-9 azelaic acid		
Oral	NOAEL Rep. Dose	1,000 mg/kg bw/d (rat) (OECD 422) with CAS 112-85-6)

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

**Germ Cell mutagenicity** Based on available data, the classification criteria are not met.  
Read-across from available studies with analogue substances (fatty acids, category approach)  
Negative findings in bacterial reverse mutation test (Ames test OECD 471), chromosome aberration test (OECD 473) and gene mutation test in mammalian cells (OECD 476)

**Carcinogenicity** No further relevant information available.

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

CAS: 123-99-9 azelaic acid		
Oral	NOAEL (repr)	1,000 mg/kg bw/day (rat) (OECD 422) with CAS 112-85-6)

**STOT-single exposure** Based on available data, the classification criteria are not met.

**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 toxicological effects**

**Endocrine disrupting properties** Substance is not listed.

### SECTION 12: ECOLOGICAL INFORMATION

**12.1 Toxicity**

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

CAS: 123-99-9 azelaic acid	
EC10 (static)	912 mg/L (Pseudomonas putida) (equivalent or similar to ISO 10712 with CAS 124-07)
LC50/96 h (static)	>16 mg/L /meas. (geom (Oryzias latipes) (OECD 203) with CAS 334-48-5)
EC50/48h	>20 mg/L /based on mo (Daphnia sp.) (OECD 202) with CAS 334-48-5)
EC50/72h	>67 mg/L /meas. TWA (Pseudokirchneriella subcapitata) (2) with CAS 123-99-9)
NOEC (28d) (dynamic)	2 mg/L /based on mort (Danio rerio) (OECD 305E) with CAS 629-25-4)
NOEC/21d (static)	0.2 mg/L /semi-static (Daphnia sp.) (OECD 211) with CAS 334-48-5)

**12.2 Persistence and degradability**

Readily biodegradable

Based on ready biodegradability studies with structural analogues (category approach: fatty acids).

Degree of degradability: 105 % in 30 days (closed bottle test, OECD 301D).

The substance does not contain chromophores that absorb at wavelengths > 290 nm and therefore is not expected to be susceptible to direct photolysis by sunlight.

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**12.3 Bioaccumulative potential**

Literature data of a similar substance

BCF: 3,162 L/kg ww or dimensionless

The estimated BCF of 3 suggests the potential for bioconcentration in aquatic organisms is low.

**12.4 Mobility in soil**

log Koc: 1.02 (prediction KOCWIN v. 2.00, MCI-method)

If released to soil, the substance is expected to have moderate mobility based upon an estimated Koc of 10.57.

The pKa of the substance is 4.55, indicating that this compound will exist almost entirely in the anion form in the environment and anions generally do not adsorb more strongly to soils containing organic carbon and clay than their neutral counterparts.

**Additional ecological information**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**12.5 Results of PBT and vPvB assessment****PBT:**

The substance does not meet the PBT criteria (not PBT) according to (EC) 1907/2006, Annex XIII.

**vPvB:**

The substance does not meet the vPvB criteria (not vPvB) according to (EC) 1907/2006, Annex XIII.

**12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

**12.7 Other adverse effects**

No further relevant information available

**SECTION 13: DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods****Recommendation**Smaller quantities can be disposed of with household waste.  
Observe all federal, state and local environmental regulations**13.2 Uncleaning packaging****Recommendation**

Disposal must be made according to official regulations.

**Recommended cleansing agents**

Water, if necessary together with cleansing agents.

**SECTION 14: TRANSPORT INFORMATION****14.1 UN-Number****ADR/RID**

Not applicable

**ADN**

Not applicable

**IMDG**

Not applicable

**IATA**

Not applicable

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**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 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)**

Substance is listed.

**Inventory - Canada - Domestic Substances List (DSL)**

Substance is listed.

**Inventory - Canada – Non-Domestic Substances List (NDSL)**

Substance is not listed.

**European Inventory of Existing Chemical Substances (EINECS)**

Substance is listed.

**Japan Existing and New Chemical Substances (ENCS)**

Substance is listed.

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**China Inventory of Existing Chemical Substance (IECSC)**

Substance is listed.

**Korean Existing and Evaluated Chemical Substances (KECL)**

Substance is listed.

**Philippines Inventory of Chemicals and Chemical Substances (PICCS)**

Substance is listed.

**Australian Inventory of Chemical Substances (AICS)**

Substance is listed.

**New Zealand Inventory of Chemicals**

Substance is listed.

**TCSI - Taiwan Chemical Substance Inventory**

Substance is listed.

**OECD – List of High Production Volume Chemicals**

Substance is not listed.

**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

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

Substance is not listed.

**15.2 Chemical safety assessment**

A chemical safety assessment has not been carried out.

**SECTION 16: OTHER INFORMATION**

This information is furnished without warranty, express or implied, except that it is accurate to the best knowledge of CORUM Inc. It relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. CORUM Inc. assumes no legal responsibility for use of or reliance upon this information.

**Abbreviations and acronyms**

NOAEL: Non Observed Adverse Effect Level



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LOAEL: Lowest Observed Adverse Effect Level  
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)  
50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
SVHC: Substances of Very High Concern  
PBT: Persistent Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
STOT: Specific Target Organ Toxicity  
ADR: Agreement on Dangerous Goods by Road  
RID: Regulations concerning the Intl Transport of Dangerous Goods by Rail  
ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
IMDG: International Maritime Dangerous Goods  
IATA: International Air Transport Association  
BCF: Bioconcentration Factor  
ChV: Fish Chronic Toxicity Value

### Sources

Own data from manufacture  
Hazardous Substances Data Bank (HSDB), a database of the National Library of Medicine's TOXNET system (<http://toxnet.nlm.nih.gov>)  
REACH Registration data.