

Safety Data Sheet

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

Trade name: **GenoWhite®**

Version: 11

Revision: 2023.11.20

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

1.1 Product identifier

Trade name **GenoWhite®**
CAS number **1016788-34-3**

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	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.support@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
PBT:

Based on available data, the ingredients of this mixture do not meet the PBT criteria (not PBT) according to (EC) 1907/2006, Annex XIII.

vPvB:

Based on available data, the ingredients of this mixture do not meet the vPvB criteria (not vPvB) according to (EC) 1907/2006, Annex XIII.

Determination of endocrine-disrupting properties

The product does not contain ingredients with endocrine-disrupting properties for humans.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Composition/information on ingredients

Name	Chemical name	Identification	Classification	SCLs, M-Factors	%
COMPONENT					
Acetyl Glycyl Beta-Alanine	-	(CAS No.) 1016788-34-3 (EC No.) 816-146-0	-	-	100%

3.2 Mixtures

Not applicable

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General information	No special measures required.
After inhalation	Supply fresh air; consult a doctor in case of complaints.
After skin contact	Immediately wash with water and soap and rinse thoroughly. Seek medical advice if irritation occurs.
After eye contact	Immediately rise opened eyes with running water for at least 20 minutes. Seek medical attention.
After swallowing	Do not induce vomiting. If the person is conscious, give small quantities of water to drink. Do not give anything by mouth to an unconscious person. Seek medical treatment.

4.2 Most important symptoms and effects, both acute and delayed

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

Note to physicians	No further relevant information available.
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SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Foam, dry chemical powder, carbon dioxide and BCF (where regulations permit)

Unsuitable extinguishing media

Not determined

5.2 Special hazards arising from the substance or mixture

Emits toxic fumes under fire conditions.

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In case of fire, the following can be released: carbon monoxide, carbon dioxide and nitrogen oxides.

5.3 **Advice for firefighters**

Protective equipment:

Wear breathing apparatus plus protective gloves.

Additional information

Alert Fire Brigade and tell them location and nature of hazard.

Use water delivered as a fine spray to control fire and cool adjacent area.

Prevent, by any means available, spillage from entering drains or water courses.

Do not approach containers suspected to be hot.

Cool fire exposed containers with water spray from a protected location.

If safe to do so, remove containers from path of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Non-emergency personnel:

Put on appropriate personal protective equipment.

Personal Protection Equipment for Emergency Responders:

Remove persons from danger area.

Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area).

6.2 **Environmental precautions**

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

Dispose according to local or international regulations.

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

Pick up mechanically using appropriate tools. Avoid raising dust.

Collect spilled product by suitable means. Transfer collected product and other contaminated materials to suitable tanks or containers for recycle, recovery or safe disposal.

6.4 **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

SECTION 7: HANDLING AND STORAGE

7.1 **Precaution for safe handling**

Advice on safe handling

Avoid ingestion, inhalation, skin and eye contact.

Minimize dust generation and accumulation.

Handle in accordance with good industrial hygiene practice and any legal requirements.

Information about fire - and explosion protection:

No special measures required.

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. If the contents are only partly used, reseal carefully and store in a dry place.

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Incompatible materials Avoid reaction with strong acid, alkali and oxidizing agents.

Storage class (VbF) No

Requirements to be met by storerooms and receptacles
No special measures required.

Information about storage in common storage facility
Not required

Further information about storage conditions
None

7.3 Specific end use(s) Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace

Exposure limits At this time, no TLV or limit value has been established, even though this material may produce adverse health effects. Airborne concentrations must be maintained as low as is practically possible and occupational exposure must be kept to a minimum.

DNEL Not determined

PNEC Not determined

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

8.2 Exposure controls

Appropriate engineering controls Ensure that eyewash and safety showers are in close proximity to work location. Good general ventilation is recommended for handling the product. No further data; see section 7.

Individual protection measures, such as personal protective equipment

General protective and hygienic measures

Avoid contact with the eyes and skin. Wash hands before breaks and at the end of work.

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

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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	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 Appropriate engineering controls to avoid dust in air.
Environmental exposure controls	Not determined

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical State	Powder
Appearance	Powder
Color	White
Odor	Odourless
Odor threshold	Not determined
<u>Property</u>	
pH value (5%)	2-3.5
Melting point/Melting range	165-180 °C
Boiling point/Boiling range	Not determined
Flash point	Not applicable
Flammability (solid, gaseous)	Not determined
Ignition temperature	Not determined
Decomposition temperature	Not determined
Self-igniting	Not determined
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	0.000249 hPa (Calculated, EPI Suite)
Vapor density	Not determined
Relative density	Not determined
Evaporation rate	Not determined
Solubility	Soluble Water- At 20 °C: 173 g/l
Partition coefficient (n-octanol/water at 25 °C)	-1.78 log POW (Calculated, EPI Suite)
Kinematic viscosity	Not applicable
Dynamic viscosity	Not applicable

9.2 Other information

Surface tension	Not determined
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Dissociation constant	Not determined
Granulometry	Not determined
Molecular weight	188.18 g/mol

Information with regard to physical hazard classes

Explosives	Void
Flammable Gases and Chemically Unstable Gases	Void
Flammable Aerosols	Void
Oxidising Gases	Void
Gases Under Pressure	Void
Flammable Liquids	Void
Flammable Solids	Void
Self-reactive Substances and Mixtures	Void
Pyrophoric Liquids	Void
Pyrophoric Solids	Void
Self-heating Substances and Mixtures	Void
Substances and Mixtures which in contact with water emit flammable gases	Void
Oxidising Liquids	Void
Oxidising Solids	Void
Organic Peroxides	Void
Substances and Mixtures corrosive to Metals	Void
Desensitized Explosives	Void

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Avoid reaction with strong acid, alkali and oxidizing agents.

10.2 Chemical stability

Stable under normal condition.

Thermal decomposition/conditions to be avoided

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions

See section 7.2.

10.4 Conditions to avoid

Heat, fire, moisture and incompatible substances

10.5 Incompatible materials

See section 7.2.

10.6 Hazardous decomposition products

Thermal decomposition products: carbon monoxide, carbon dioxide and nitrogen oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

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Name	Acetyl Glycyl Beta-Alanine CAS:1016788-34-3
Acute toxicity	*Based on the results of the available studies assessing acute toxicity of N-acetylglycyl β-alanine, the classification criteria stated in EU Regulation 1272/2008 are not met.
Skin corrosion/irritation	Two tests with product diluted at 5% showed no irritant effect: Acute skin tolerance, non irritant (dilution at 5%) In vitro skin irritation, non irritant (dilution at 5%)
Serious eye damage/irritation	Practically non irritant (dilution at 5%)
Respiratory tract	Not determined
Respiratory/skin sensitization	*No adverse effect observed (not sensitising) Hypoallergenic (GenoWhite®)
Toxicokinetics, metabolism and distribution	Not determined
Repeated dose toxicity	Not determined
Germ Cell mutagenicity	Non mutagenic (GenoWhite®) *Based on the results obtained in the available study, the test item Acetyl glycyl beta-alanine was found to be Non-mutagenic and Non-pro-mutagenic under the test conditions.
Carcinogenicity	Not determined
Reproductive toxicity	Not determined
STOT-single exposure	Not determined
STOT-repeated exposure	Not determined
Aspiration hazard	Not determined

*from ECHA webpage registration data

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

11.2 Information on other hazards

Endocrine disrupting properties	Substance is not listed.
Phototoxicity	Non phototoxic
Cytotoxicity	Non acute toxicity

SECTION 12: ECOLOGICAL INFORMATION

Name	Acetyl Glycyl Beta-Alanine CAS:1016788-34-3
12.1 Toxicity Aquatic toxicity	*Calculated values (ECOSAR) of LC50, EC50 and ChV for fish, daphnid and green algae are higher than cut values considered for classification. Daphnia mgana, static, NOEC: (48H) ≥ 100 mg test item/L Daphnia mgana, static, LOEC: (48H) > 100 mg test item/L Daphnia mgana, static, EC50: (48H) > 100 mg test item/L Pseudokirchneriella subcapitata, static, growth rate, NOEC: (72H) ≥ 100 mg test item/L Pseudokirchneriella subcapitata, static, yield, NOEC: (72H) ≥ 100 mg test item/L Pseudokirchneriella subcapitata, static, growth rate, LOEC: (72H) > 100 mg test item/L Pseudokirchneriella subcapitata, static, yield, LOEC: (72H) > 100 mg test item/L Pseudokirchneriella subcapitata, static, yield, EC50: (72H) > 100 mg test item/L
12.2 Persistence and	*Readily biodegradable

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degradability	OECD Guideline 301B (Ready Biodegradability: CO2 Evolution Test); activated sludge, domestic, non-adapted: 93,7 % degradation of test substance after 28 days
12.3 Bioaccumulative potential	*BCF = 3,162 L/kg wet-wt (Calculated from regression-based method, ECOSAR) Log Kow: -1,78 (Calculated, EPI Suite) Ready biodegradability test, calculated BCF and Log Kow indicate that the substance has a low bioaccumulative potential
12.4 Mobility in soil	No further relevant information available.
12.5 Results of PBT and vPvB assessment	PBT: Not applicable vPvB: Not applicable
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.

*from ECHA webpage registration data

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Recommendation

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

European waste catalogue

Not applicable

13.2 Uncleaning packaging

Recommendation

Disposal must be made according to official regulations.

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

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Marine pollutant No

14.6 Special precautions for user
Special precaution for user Not applicable

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

14.9 Maritime transport in bulk according to
IMO instruments Not applicable
UN "Model Regulation" Not applicable

SECTION 15: REGULATORY INFORMATION

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

Name	Acetyl Glycyl Beta-Alanine CAS:1016788-34-3
Inventory - United States - Toxic Substances Control Act (TSCA)	N
Inventory - Canada - Domestic Substances List (DSL)	N
Inventory - Canada - Non-Domestic Substances List (NDSL)	N
Inventory - Canada - Revised In Commerce List (R-ICL)	N
ECHA Inventory of substances	Y
Japan Existing and New Chemical Substances (ENCS)	N
Inventory of Existing Chemical Substances in China (IECSC)	Y
Korean Existing and Evaluated Chemical Substances (KECL)	N
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	N
Australian Inventory of Industrial Chemicals (AIIC)	N
New Zealand Inventory of Chemicals	N
TCSI - Taiwan Chemical Substance Inventory	Y
OECD - List of High Production Volume Chemicals	N

Y : listed, N : not listed, E : exempted

Directive 2004/42/EC
Seveso category
 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

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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.

Regulation (EC) No 273/2004 on drug precursors

Substance is not listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

Substance is not listed.

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer - ANNEX I (Ozone-depleting potential)

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

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Abbreviations and acronyms

NOAEL: Non Observed Adverse Effect Level

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)

LC50: 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

Sources



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Own data from manufacture

Chemical safety report according to REACH registration dossier