Safety Data Sheet
according to 1907/2006/EC, Article 31

Trade name: **GenoWhite™** Version: 5 Revision: 2020.11.27

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 11492, 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

Warning, substance not yet fully tested. May cause eye irritation
Results of PBT and vPvB assessment
Not applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Chemical characterization: Substances

3.2 Composition/information on ingredients

Chemical Name	CAS No.	EC No.
Acetyl Glycyl Beta-Alanine	1016788-34-3	816-146-0

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

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

5.3 Advice for firefighters

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 form 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 handing.
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.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions	Suitable container: Lined metal pail/can. Store in tightly closed packings. Check all containers are clearly labelled and free from leaks.
Incompatible materials	Avoid reaction with strong acid, alkali and oxidizing agents.
Storage class (VbF)	No

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

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

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 reparation/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
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
Oder threshold	Not determined

Property	
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 ºC: 120 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
Dissociation constant	Not determined
Granulometry	Not determined
Molecular weight	188.18 g/mol

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

Acute toxicity
LD/LC50 values relevant for classification
Not determined

Primary Irritant effect

Skin corrosion/irritation	Two tests with product diluted at 5% showed no irritant effect: Acute skin tolerance (48- hour single patch test, semi-occlusive): Non irritant In vitro skin irritation, OECD Guideline 439: Non irritant
Serious eye damage/irritation	HET-CAM Test (in vitro), dilution at 5%: practically non irritant
Respiratory tract	Not determined
Respiratory/skin sensitization	Not determined
Additional toxicological information	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 (carcinogenity, mutagenicity and toxicity for reproduction)

Germ Cell mutagenicity	Ames test (OECD Guideline 471, Bacterial Reverse Mutation Test and test Mehod B13/B14 of Comission Directive 2000/32/EC): Non mutagenic/non pro-mutagenic
Carcinogenicity	Not determined
Reproductive toxicity	Not determined
STOT-single exposure	Not determined
STOT-repeated exposure	Not determined
Aspiration hazard	Not determined

SECTION 12: ECOLOGICAL INFORMATION

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.

12.2 Persistence and degradability
OECD Guideline 301B (Ready Biodegradability: CO2 Evolution Test); activated sludge, domestic, non-adapted: 93,7 % degradation of test substance after 28 days
Readily biodegradable

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 indiate 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
Not applicable

12.6 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.

SECTION 14: TRANSPORT INFORMATION

14.1 UN-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

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

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 not listed.

Canada Domestic Substances List (DSL)/ Canada Non-Domestic Substances List (NDSL)
Substance is not listed.

European Inventory of Existing Chemical Substances (EINECS)
Substance is not listed.

Japan Existing and New Chemical Substances (ENCS)
Substance is not listed.

China Inventory of Existing Chemical Substance (IECSC)
Substance is not listed.

Korean Existing and Evaluated Chemical Substances (KECL)
Substance is not listed.

Philippines Inventory of Chemicals and Chemical Substances (PICCS)
Substance is not listed.

Australian Inventory of Chemical Substances (AICS)
Substance is not listed.

National regulations
Other regulations, limitations and prohibitive regulations
Not determined

Substances of very high concern (SVHC) according to REACH, Article 57 and 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
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
Own data from manufacture
Chemical safety report according to REACH registration dossier