



Shandong Yangcheng Biotechnology. Co., Ltd.

No.1666, Donghuan Rd, Juancheng County, Shandong Province, China 274600

Tel: +86-537-2318768

Fax: +86-537-2081171

Material Safety Data Sheet

N-acetyl-L-tyrosine

SECTION 1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name: N-Acetyl-L-tyrosine

CAS No.: 537-55-3

1.2 Details of the supplier of the safety data sheet

Company: Shandong Yangcheng Biotech Co., Ltd

No.1666,Donghuan Road, JuanCheng County Heze City

Shandong Province, China

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<http://www.yangchengbio.com>

SECTION 2 Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC)

No 1272/2008: The substance is not classified as hazardous to health or the environment according to the CLP regulation.

Classification according to directive 67/548/

EEC or directive 1999/45/ EC: not applicable

Information concerning piticular hazards

For human and environment: not applicable

Other hazards that do not result in classification: no information known

2.2 label elements

Classification according to Regulation (EC)

No 1272/2008: not applicable

Hazard pictograms not applicable

Signal words not applicable

Hazard statements not applicable

2.3 other hazards

Results of PBT and vPvB assessment

PBT: not applicable

vPvB: not applicable

SECTION 3 Composition/information on ingredient

3.1 substances



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CAS No.:	537-55-3
EC No.:	208-671-3

SECTION 4 First aid measures

4.1 description of first aid and measures

After inhalation	supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. seek immediate medical advice
After skin contact	Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice
After eye contact	Rinse opened eye for several minutes under running water. Then consult doctor.
After swallowing	Seek medical treatment
4.2 most important symptoms and effects Both acute and delayed	No further relevant information available
4.3 indication of any immediate medical attention and special treatment needed	No further relevant information available

SECTION 5 firefighting measures

5.1 extinguishing media

Suitable extinguishing agents	CO ₂ , extinguishing powder or water jet. Fight larger fires with water jet or alcohol -resistant foam.
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5.2 special hazards arising from the substances or mixture

if this product is involved in a fire. The following can be released:
Carbon monoxide and carbon dioxide.
Nitrogen oxides(NO_x)

5.3 advice for firefighters

Protective equipment	Wear self-contained breathing apparatus Wear full protective suit
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SECTION 6 accidental release measures

6.1 personal precautions, protective

Equipment and emergency procedures	Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation
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6.2 environment precaution

Do not allow material to be released to the environment without proper governmental permit.
Do not allow product to reach sewage system or water bodies.
Do not allow to enter the ground/soil.

6.3 method and material for containment and cleaning up

Collect mechanically



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Prevention second hazards:	No special measures required
6.4 reference to other section	See section 7 for information on safe handling See section 8 for information on personal protection equipment See section 13 for information on disposal

SECTION 7 handling and storage

7.1 precautions for safe handling	Keep containers tightly sealed Store in cool, dry place in tightly sealed containers.
Information about protection against explosion and fires:	No information known
7.2 conditions for safe storage, including any incompatibilities	
Storage	
Requirements to be met by storerooms and Containers:	No special requirements
Information about storage in one common storage facilities:	Store away from oxidizing agent
Further information about storage conditions:	Keep container tightly sealed Store in cool, dry conditions in well sealed containers.
7.3 specific end use(s)	No further relevant information available.

SECTION 8 Exposure controls/personal protection

Additional information about design of Technical systems:	Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.
8.1 control parameters	
Components with critical values that require monitoring at the workplace:	Not required
Additional information:	No data
8.2 exposure controls	
Personal protective equipment	
General protective and hygienic measures	The usual precautionary measures should be adhered to in handling the chemicals. Keep away from foodstuffs, beverages and food. Instantly remove any soiled and impregnated garments Wash hands during breaks and at the end of the work. Maintain an ergonomically appropriate working environment.
Breathing equipment:	Use breathing protection with high concentrations.
Protection of hands:	Check protective gloves prior to each use for their proper condition.



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The selection of the suitable glove is not only depend on the material, but also on the marks of quality and varies from manufacturer to manufacturer.

Material of gloves:	Imperious gloves
Penetration time of glove material:	Not determined
Eye protection:	Safety glasses
Body protection:	Protective work clothing.

SECTION 9 physical and chemical properties

9.1 information on basic physical and chemical properties

General information

Appearance

Form:	Powder
Smell:	Not determined
Odour threshold:	Not determined
PH-value:	Not applicable
Change in condition	
Melting point/melting range:	152-154°C
Boiling point/boiling range:	Not determined
Sublimation temperature/start:	Not determined
Flash point:	Not applicable
Inflammability(solid,gaseous)	Not determined.
Ignition temperature:	Not determined.
Decomposition temperature:	Not determined.
Self-inflammability:	Not determined.
Danger of explosion:	The product is not explosive.
Critical values for explosion:	
Lower:	Not determined.
Upper:	Not determined.
Steam pressure:	Not applicable.
Density:	Not determined.
Relative density:	Not determined.
Vapour density:	Not applicable.
Evaporation rate	Not applicable.
Solubility in/miscibility with	
Water	Not determined.
Partition coefficient:(n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
9.2 other information	No further relevant information available

SECTION 10: Stability and reactivity



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10.1 Reactivity	No information known.
10.2 Chemical stability	Stable under the recommended storage conditions.
Thermal decomposition/conditions to be avoided.	No decomposition if used and stored according to specifications.
10.3 possibility of hazardous reactions	No dangerous reactions known.
10.4 incompatible materials	Oxidizing agents
10.5 hazardous decomposition products	Carbon monoxide and carbon dioxide Nitrogen oxides(NO _x)

SECTION 11 Toxicological information

11.1 information on toxicological effects

Acute toxicity	No effects known.
LD/LC50 values that are relevant for Classification:	No data
Skin irritation or corrosion:	May cause irritation
Eye irritation or corrosion:	May cause irritation
Sensitization:	No sensitizing effect known.
Germ cell mutagenicity:	No effects known.
Carcinogenicity:	No classification data on carcinogenicity properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.
Reproductive toxicity:	No effect known.
Specific target organ system toxicity-repeated exposure:	No effect known.
Aspiration hazard:	No effect known.
Additional toxicological information:	To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

SECTION 12 Ecological information

12.1 Toxicity	
Aquatic toxicity:	No further relevant information available.
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.
Additional ecological information:	
General notes:	Do not allow material to be released to the environment without proper governmental permits.
	Water hazard class 1(self-assessment): slightly hazardous for water.
	Do not allow undiluted product or large quantities of it to reach ground water,



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water bodies or sewage system.

Avoid transfer into the environment

12.5 Results of PBT and vPvB assessment

PBT:

Not applicable.

vPvB:

Not applicable.

12.6 Other adverse effects

No further relevant information available.

SECTION 13 Disposal considerations

13.1 waste treatment method

Recommendation:

Hand over to disposers of hazardous waste.

Must be specially treated under adherence to official regulations.

Consult state, local or national regulations for proper disposal.

Uncleaned packagings:

Recommendation:

Disposal must be made according to official regulations.

SECTION 14 Transport information

UN-Number

ADR, IMDG,IATA

None

14.2 UN proper shipping name

ADR, IMDG,IATA

None

14.3 Hazard transport class(es)

ADR, IMDG,IATA

Class

None

14.4 Packaging group

ADR, IMDG,IATA

None

14.5 Environmental hazards:

Not applicable.

14.6 Special precaution for user:

Not applicable.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC

Code:

Not applicable.

Transport/additional information:

Not dangerous according to the above specifications.

SECTION 15 Regulatory information

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

Australian inventory chemical

Substances

Substance is listed.

Standard for the Uniform Schedule of

Drugs and Poisons

Substance is not listed.

National regulations

Information about limitation of use:

For use only by technical qualified individuals.

Water hazard class:

Water hazard class 1(self-assessment): slightly hazardous for water.

Other regulations, limitations and prohibitive regulations



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ELINCS(European List of Notified chemical

Substances):	Substance is not listed.
Substances of very high concern(SVHC)	
According to REACH, Article 57:	Substance is not listed.
REACH-Pre-registered substances:	Substance is listed.
15.2 Chemical safety assessment:	A chemical safety assessment is not be carried out.

SECTION 16 Other information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitable of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this MSDS, or in combination with other product or process, is the responsibility of the user.

Department issuing data specification sheet: Health, Safety and Environmental Department.

Abbreviations and acronyms:

- ADR: accord europeen sur le transport des marchandises dangereuses par Route(European Agreement concerning the international Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods.
- IATA: International Air Transport Association
- GHS: Globally harmonized System of Classification and Labelling of Chemicals.
- EINECS: European Inventory of Existing Commercial Chemical Substances.
- CAS: Chemical Abstract Service(division of the American chemical society)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent