

TOKYO BRANCH

For Shaken 8-12, Nihonbashihoncho 2-chome, Chuo-ku, Tokyo, (P.C.103-0023) Japan Phone: +81-3-6667-8251 Fax: +81-3-6667-8250 OSAKA BRANCH

Osaka, (P.C. 556-0022) Japan Phone: +81-6-6563-1511 Fax: +81-6-6563-1510 NARA PLANT

Naha PENN 1596-9, Yuzaki, Kawanishi-cho, Shiki-gun, Nara Pref., (P.C. 636-0202) Japan Phone: +81-745-44-1788 Fax: +81-745-44-1681

Issue Date: 2018/10/22

SAFETY DATA SHEET (SDS) per OSHA HazCom 2012

According to 1907/2006/EC, Article 31

Section 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name : Collagen

Nitta Product : Collagen BM

Company Name : Nitta Gelatin Inc.

Address : 2-22 Futamata, Yao city, Osaka, Japan

Zip Code : 581-0024

Information department : Quality Assurance Department

Phone number : +81-72-949-5381

E-mail : info-qa@nitta-gelatin.co.jp

Emergency phone number : +81-72-949-5381

Section 2. HAZARDS IDENTIFICATION

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

LABEL ELEMENTS Labeling according to Regulation (EC)No1272/2008

[SYMBOL] None listed

[SIGNAL WORD] None listed

HMIS(Hazardous Materials Identification System) Class: 0~4]

HEALTH	0	
FIRE	1	
REACTIVITY	1	

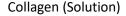
[Hazard statement]

May cause an allergic skin reaction

Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable vPvB: Not applicable





TOKYO BRANCH

8-12, Nihonbashihoncho 2-chome, Chuo-ku, Tokyo, (P.C.103-0023) Japan Phone: +81-3-6667-8251 Fax: +81-3-6667-8250 **OSAKA BRANCH**

Osaka, (P.C. 556-0022) Japan Phone: +81-6-6563-1511 Fax: +81-6-6563-1510 NARA PLANT

Naha PENN 1596-9, Yuzaki, Kawanishi-cho, Shiki-gun, Nara Pref., (P.C. 636-0202) Japan Phone: +81-745-44-1788 Fax: +81-745-44-1681

Section 3. COMPOSITION / INFORMATION ON INGREDIENTS

CAS number : N/A

Chemical name : Collagen

% content : 0.8% collagen

EC number : N/A

Impurities and stabilizing additives which are themselves classified and which contribute to the classification of the substance - Not applicable

Section 4. FIRST-AID MEASURES

Inhalation : Excessive inhalation of dust can mechanically impede respiration. Remove from

exposure and supply fresh air. If required provide artificial respiration. Get

medical aid if cough or other symptoms appear.

Skin contact : Wash off with soap and lukewarm water. If skin irritation or rash occurs, get

medical attention/advice.

Eye contact : Even if very small amount contact, rinsing by clean water for at least 15 minutes,

and get ophthalmologist's examination. Remove contact lenses, unless it sticks to

the eye. Then continue rinsing.

Ingestion : Product is non-hazardous; however, excessive ingestion at once may block a

throat. Rinse mouth with water, give about 250 ml of water to dilute in the stomach, and do not induce to vomit. Receive the doctor's treatment (stomach

pump) if other symptoms appear.

Section 5. FIRE FIGHTING PROCEDURES

Extinguishing media : Water (First aid), Chemical powder, Carbon dioxide, Form, and

dry sand. (This product cannot ignite, due to presence of excess

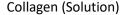
water)

Unsuitable extinguishing media : In case of large fires, do not use water.

General fire hazards : If this product is involved in a fire, the following can released:

Carbon monoxide and carbon dioxide. Nitrogen oxides (NOx)

and Sulfur oxides (SOx)





TOKYO BRANCH

For Shaken 8-12, Nihonbashihoncho 2-chome, Chuo-ku, Tokyo, (P.C.103-0023) Japan Phone: +81-3-6667-8251 Fax: +81-3-6667-8250

OSAKA BRANCH Osaka, (P.C. 556-0022) Japan Phone: +81-6-6563-1511 Fax: +81-6-6563-1510

NARA PLANT Naha PENN 1596-9, Yuzaki, Kawanishi-cho, Shiki-gun, Nara Pref., (P.C. 636-0202) Japan Phone: +81-745-44-1788 Fax: +81-745-44-1681

Specific extinction method : Shut off all sources of ignition. Wear proper protective

equipment. After extinguishing, keep personal out by roping

round until inside of material cools.

Special protective for fire-fighters : Wear full body protective clothing with breathing apparatus.

Section 6. ACCIDENTAL RELEASE MEASURES

Personal precautions,

Protective equipment and emergency procedures

: Wear protective goggles, gloves and long-sleeved clothing, when

handling.

: Avoid release of this material into sewer, watercourse or river. Environmental precautions

Removing method : No special treatment is necessary. In case the product is spilled, vacuum

or sweep up the material for disposal. Materials can be disposed of

according to local regulations.

CAUTION! : Surface that may be covered with the product will become extremely

slippery upon application of water. Wet spills should be thoroughly

flushed with lukewarm water until non-slippery.

Section 7. HANDLING AND STORAGE

Handling : It is recommended to use a dust respirator and goggle, if huge amount of dust

formation is expected (usually when handling large quantities).

Storage condition : Keep tightly closed. Store in cool and dry place. Store at 4-8°C.

Section 8. EXPOSURE CONTROL / PERSONAL PROTECTION

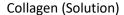
Chemical Name	ACGIH	NIOSH	OSHA-Final PELs
Gelatin	None listed	None listed	None listed

Exposure controls : Using ventilator is recommended when handling is generating high

particulate.

Control parameters : Not applicable Engineering measure : Not applicable

Protective Equipment





TOKYO BRANCH

For Shaken 8-12, Nihonbashihoncho 2-chome, Chuo-ku, Tokyo, (P.C.103-0023) Japan Phone: +81-3-6667-8251 Fax: +81-3-6667-8250

OSAKA BRANCH

Osaka, (P.C. 556-0022) Japan Phone: +81-6-6563-1511 Fax: +81-6-6563-1510

NARA PLANT

Naha PENN 1596-9, Yuzaki, Kawanishi-cho, Shiki-gun, Nara Pref., (P.C. 636-0202) Japan Phone: +81-745-44-1788 Fax: +81-745-44-1681

Respiratory protection : Respirators (protective mask)

Hand protection : Gloves (water resistant)

: Normal eyeglasses, normal eyeglasses with side shields, or safety goggles Eye protection

described by OSHA's eye and face protection regulations in 29 CFR

1910.133 or European Standard EN166.

Skin and body protection : Long-sleeved clothing (water resistant) and protective boots.

Respirators : Follow the OSHA respirator regulations found in 29 CFR 1910.134 or

> European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation

or other symptoms.

Proper measure for

health

: Wash hands thoroughly and gargle after handling, before eating and

drinking.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Solution

Color : Colorless and transparent (or slightly translucent)

Odor : Almost odorless

: 2.8 - 3.2pН

Boiling point : Not applicable Melting point : Not applicable Flash point : Not applicable

: No data Auto ignition temperature (ignition temperature) Explosion properties : No data Vapor pressure : No data Vapor density : No data : No data Vapor rate Specific gravity (relative density) : No data Decomposition temperature : No data

Solubility : Soluble in water

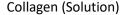
: No data n-Octanol / water partition coefficient

Section 10. STABILITY AND REACTIVITY

Stability : Stable under normal storage and handling

Possibility of hazardous reactions : May cause hydrolysis with water, and dry condition without

water cause insolubilization





TOKYO BRANCH

For Shaken 8-12, Nihonbashihoncho 2-chome, Chuo-ku, Tokyo, (P.C.103-0023) Japan Phone: +81-3-6667-8251 Fax: +81-3-6667-8250

OSAKA BRANCH

Osaka, (P.C. 556-0022) Japan Phone: +81-6-6563-1511 Fax: +81-6-6563-1510

NARA PLANT

Naha PENN 1596-9, Yuzaki, Kawanishi-cho, Shiki-gun, Nara Pref., (P.C. 636-0202) Japan Phone: +81-745-44-1788 Fax: +81-745-44-1681

Conditions to avoid : High temperature, high humidity, incompatible materials, dust

generation.

Incompatible material : No data

Hazardous decomposition products : Carbon monoxide and carbon dioxide, Nitrogen oxides (NOx),

Sulfur oxides (SOx).

Others : No information

Section 11. TOXICOLOGICAL INFORMATION

Acute toxicity : No data LD 50 / LC 50 RTECS : Not available Skin corrosion / irritation : No data Serious eye damage / eye irritation : No data Respiratory / skin sensitization : No data

Carcinogenicity : Not listed by EPA, ACGIH, IARC, NTP, OSHA

or CA Prop 65

: No data

Reproductive toxicity : No data Specific target organ toxicity- single exposure : No data Specific target organ toxicity- repeated exposure : No data Aspiration hazard : No data Others : No data

Section 12. ECOLOGICAL INFORMATION

Eco toxicity : No data

Fish toxicity : No data

Environmental fate, persistence and

degradability, mobility

Germ cell mutagenicity

: This product does not present long-term ecological

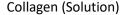
problems. It is considered biodegradable

General notes : Do not allow material to be released in 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, water bodies or sewage system. It will cause reduction in dissolved oxygen and could therefore contribute to BOD. Avoid transfer in the environment.





TOKYO BRANCH

8-12, Nihonbashihoncho 2-chome, Chuo-ku, Tokyo, (P.C.103-0023) Japan Phone: +81-3-6667-8251 Fax: +81-3-6667-8250

OSAKA BRANCH

Osaka, (P.C. 556-0022) Japan Phone: +81-6-6563-1511 Fax: +81-6-6563-1510

NARA PLANT

Naha PENN 1596-9, Yuzaki, Kawanishi-cho, Shiki-gun, Nara Pref., (P.C. 636-0202) Japan Phone: +81-745-44-1788 Fax: +81-745-44-1681

Results of PBT and vPvB assessment

PBT : Not applicable vPvB : Not applicable

Other adverse effects : No further relevant information available

Section 13. DISPOSAL CONSIDERATIONS

Contents must be disposed of in compliance with the respective national and local regulations. Dispose of contents/container to waste disposing company having the official approval of laws and regulations.

Section 14. TRANSPORT INFORMATION

International regulation : DOT, ADN IMDG. IATA

UN class of dangerous material in

definition of the UN

: Not available

UN number : Not available Packing group : Not available : Not available Marine pollution material

Domestic regulations : Follow all regulation on the transport in your country or

region

Safety measure and condition on

transportation

: protect against tumble, fall, physical damage and direct

sunlight during loading to avoid shift in transit

Emergency response guideline number : Not available

Transport in bulk according to Annex

of MARPOL73/78 and the IBC Code

: Not available

Section 15. REGULATORY INFORMATION

The fire service act : Not applicable

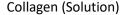
Industrial safety and health act : Not applicable

Safety, health and environmental regulations/legislation specific for the

substance or mixture

: North American regulations

All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances





TOKYO BRANCH

For Shaken 8-12, Nihonbashihoncho 2-chome, Chuo-ku, Tokyo, (P.C.103-0023) Japan Phone: +81-3-6667-8251 Fax: +81-3-6667-8250

OSAKA BRANCH

Osaka, (P.C. 556-0022) Japan Phone: +81-6-6563-1511 Fax: +81-6-6563-1510

NARA PLANT

Naha PENN 1596-9, Yuzaki, Kawanishi-cho, Shiki-gun, Nara Pref., (P.C. 636-0202) Japan Phone: +81-745-44-1788 Fax: +81-745-44-1681

Control Act Chemical substance Inventory.

All components of this product are listed on the Canadian Domestic Substances List(DSL)

SARA Section 313(specific toxic

chemical listings)

: Substance is not listed.

California Proposition 65

Prop 65-Chemicals known to cause cancer : Substance not listed

Prop 65-Developmental toxicity : Substance not listed

Prop 65-Developmental toxicity (female) : Substance not listed

Prop 65-Developmental toxicity (male) : Substance not listed

Information about limitation of use : For use only by technically qualified individuals

Australian inventory of Chemical : Substance not listed

Substances

Standard for the Uniform Scheduling of

Drug and Poisons

: Substance not listed

Water hazard class : Water hazard class 1 (Self-assessment)- slightly

hazardous for water.

Other regulations, limitations and prohibitive regulations

ELINCS (European List of Notified : Substance not listed

Chemical Substances)

Substances of very high concern (SVHC)

according to REACH, Article 57

REACH-Pre-registered substances

: Substance not listed

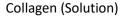
: Substance not listed

Chemical safety assessment : A Chemical Safety Assessment has not been carried out.

Section 16.OTHER INFORMATION

References

- JIS Z 7253-2012
- ACGIH 2000 TLVs and PEIs (2000)
- Japan Society For Occupational Health(JSOH) Recommendations for allowable concentrations (1999)
- CLP Regulation (EC) No. 1272/2008 [CLP/GHS]





TOKYO BRANCH

Tokyo, (P.C. 103-0023) Japan Phone: +81-3-6667-8251 Fax: +81-3-6667-8250

OSAKA BRANCH

0-34R 5HARCH 4-26, Sakuragawa 4-chome, Naniwa-ku, Osaka, (P.C. 556-0022) Japan Phone: +81-6-6563-1511 Fax: +81-6-6563-1510

NARA PLANT

Naha PLAN 1596-9, Yuzaki, Kawanishi-cho, Shiki-gun, Nara Pref., (P.C. 636-0202) Japan Phone: +81-745-44-1788 Fax: +81-745-44-1681

Abbreviations and acronyms

GHS	:Globally Harmonized System of classification and labeling chemicals
HMIS	: Hazardous Material Identification System (USA)
PBT	: Persistance Bioaccumualtion Toxicity
VPvB	: very Persistent and very Bioaccumulative
CAS	: Chemical Abstracts Service (division of the American Chemical Society)
EINECS	: European Inventory of Existing Commercial Chemical Society
ACGIH	: American Conference of Governmental Industrial Hygienists(USA)
OSHA	: Occupational Safety and Health Administration (USA)
IARC	: International Agency for Research on Cancer
EPA	: Environmental Protection Agency (USA)
NTP	: National Toxicology Program (USA)
DOT	: US Department of Transportation
IMDG	: International Maritime Code for Dangerous Goods
IATA	: International Air Transport Association

The above information is given in good faith and to the best of our knowledge.

It is not intended to guarantee specific properties but solely to assist in setting up suitable pre cautionary measures. No guarantee can be given for risks arising from unforeseen circumstance.