

CONTACT OFFICE & OSAKA PLANT
22, Futamata 2-chome, Yao-city,
Osaka Pref., (P.C. 581-0024) Japan
Phone : +81-72-949-5381
Fax : +81-72-949-8087

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
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
1596-9, Yuzaki, Kawanishi-cho, Shiki-gun,
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ISSUED DATE : 2018/10/03

SAFETY DATA SHEET(SDS)
per OSHA HazCom 2012
according to 1907/2006/EC, Article 31

Section1. PRODUCT AND COMPANY IDENTIFICATION

Product name	Collagen
NITTA PRODUCT	beMatrix Collagen FD
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
Email	info-qa@nitta-gelatin.co.jp
Emergency telephone number	+81-72-949-5381

Section2. 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

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Section3. COMPOSITION / INFORMATION ON INGREDIENTS

CAS number :	N/A
Chemical name :	Collagen
% content :	100% (Not less than 85% as protein as supplied)
EC number :	N/A

Impurities and stabilizing additives which are themselves classified and which contribute to the classification of the substance

Not applicable

Section4. 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 may block a throat at one time. After rinse mouth with water, give about 250 ml of water to thin in the stomach, and do not induce to vomit. Receive the doctor's treatment(stomach pump) if other symptoms appear.

Section5. FIRE FIGHTING PROCEDURES

- Extinguishing media** : water(First aid), Chemical powder, Carbon dioxide, Form, and Dry sand.
(This product cannot ignition, cause include many 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 (NO_x) Sulphur oxides

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(SOx)

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

Section6. ACCIDENTAL RELEASE MEASURES

Personal precautions, Protective equipment and emergency procedures :

Wear protective goggles, gloves and long-sleeved clothing, when handling.

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

Removing method : No special treatment are 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.

Section7. HANDLING AND STORAGE

Handling: It is recommended to use of a dust respirator and goggle only if strong dust formation is to be expected when handling larger quantities.

Storage

Conditions: It is recommended to store in tight containers under room temperature and avoid high temperature, high humidity and sunbeam.

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Section8. EXPOSURE CONTROL / PERSONAL PROTECTION

Chemical Name	ACGIH	NIOSH	OSHA-Final PELs
COLLAGEN	none listed	none listed	none listed

OSHA Vacated PEL's: COLLAGEN: None listed

Exposure controls : Using ventilator is recommended if handling is generating high dust concentrations.

Control parameters : Not applicable

Engineering measure : Not applicable

Protective equipment

Respiratory protection : Respirators(Protective mask)

Hand protection : gloves(water resistant)

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

Section9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Sponge

Color : white to light yellow-brown

Odor : faint, characteristic

pH : No Data

Boiling point : Not applicable

Melting point : Not applicable

Flash point : Not applicable

Auto-ignition temperature(ignition temperature) : No Data

Explosion properties : No Data

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Vapor pressure : No Data
Vapor density : No Data
Vapor rate : No Data
Specific gravity(relative density) : No Data
Decomposition temperature : No Data
Solubility : Soluble in water
n-Octanol/water partition coefficient : No Data

Section10. 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.
Conditions to avoid : High temperature, high humidity, incompatible materials, dust generation.
Incompatible Materials : No Data
Hazardous decomposition products : ¥Carbon monoxide and carbon dioxide
Nitrogen oxides(NOx)
Sulphur oxides(Sox)
Others : No information

Section11. TOXICOLOGICAL INFORMATION

Acute Toxicity : No Data
LD50/LC50 RTECS : Not available
Skin Corrosion/Irritation : No Data
Serious eye damage/eye irritation : No Data
Respiratory sensitization/skin sensitization : No Data
Germ cell mutagenicity : No Data
Carcinogenicity : Not listed by EPA, ACGIH, IARC, NTP, OSHA or CA Prop 65
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

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Section12. ECOLOGICAL INFORMATION

eco toxicity : No Data

fish toxicity : No Data

Environmental fate, persistence and degradability, mobility :

This product does not present a long-term ecological problems

It is considered biodegradable.

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, water bodies or sewage system. It will cause a reduction in dissolved oxygen and could therefore contribute to BOD. Avoid transfer into the environment.

Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

Other adverse effects : No further relevant information available

Section13. DISPOSAL CONSIDERATIONS

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

Section14. TRANSPORT INFORMATION

International regulations : DOT, ADN, IMDG, IATA

UN class of dangerous material in definition of the UN : not available

UN number : not available

Packing Group : not available

Marine pollution material : not available

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

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Transport in bulk according to Annex of MARPOL73/78 and the IBC Code :
Not available

Section15. REGULATORY INFORMATION

- The Fire Services Act : Not application
- Industrial Safety and Health Act:Not application

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

North America regulations

All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances 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 is not listed.

Prop 65-Developmental toxicity: Substance is not listed.

Prop 65-Developmental toxicity, female: Substance is not listed.

Prop 65-Developmental toxicity, male: Substance is not listed.

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

Australian inventory of Chemical Substances: Substance is not listed.

Standard for the Uniform Scheduling of Drug and Poisons: Substance is 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 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 not listed.

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

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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]

Abbreviations and acronyms:

GHS : Globally Harmonized System of Classification and Labelling of Chemicals
HMIS : Hazardous Materials Identification System(USA)
PBT : Persistence Bioaccumulation 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.