

Material Safety Data Sheet (MSDS)

Original Issue Date: 2015.8.25

1 · IDENTIFICATION OF THE PRODUCT AND COMPANY

GENERAL NAME: — This product is not medical devices which is miscellaneous goods.

PRODUCT NAME: **RESIN SEP**

REFERENCE NUMBER: QZ □ 005

COMPANY NAME: Quest Corporation

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DEPARTMENT IN CHARGE: Management Dep. Quality Management System Div.

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PURPOSE OF USE : : Separation such as resin for denture base, etc. (Low viscosity type)

2 · HAZARD IDENTIFICATION

GHS classification

Physical hazards

EXPLOSIVES	: Not applicable
FLAMMABLE GAS	: Not applicable
FLAMMABLE AEROSL	: Not applicable
OXIDIZING GAS	: Not applicable
GASES UNDER PRESSURE	: Not applicable
FLAMMABLE LIQUIDS	: Not applicable
FLAMMABLE SOLIDS	: Not applicable
SELF-REACTIVE SUBSTANCE AND MIXTURES	: Not applicable
PYROPHORIC LIQUIDS	: Not applicable
PYROPHORIC SOLIDS	: Not applicable
SELF-HEATING SUBSTANCE AND MIXTURES	: Not applicable
SUBSTANCES AND MIXTURES WHICH, IN CONTACT WITH WATER, EMIT FLAMMABLE GASES	: Not applicable
OXIDIZING LIQUIDS	: Not applicable
OXIDIZING SOLIDS	: Not applicable
ORGANIC PEROXIDES	: Not applicable
CORROSIVE TO METALS	: Not applicable

Health hazards

ACUTE TOXICITY (ORAL) : Out of category

ACUTE TOXICITY (DERMAL)	: Out of category
ACUTE TOXICITY (GAS)	: Not applicable
ACUTE TOXICITY (VAPORS)	: Out of category
ACUTE TOXICITY (DUST)	: Out of category
ACUTE TOXICITY (MISTS)	: Unclassified
SKIN CORROSION/IRRITATION	: Out of category
RESPIRATORY	: Unclassified
SKIN SENSITIZATION	: Unclassified
GERM CELL MUTAGENICITY	: Out of category
CARCINOGENICITY	: Out of category
REPRODUCTIVE TOXICITY	: Out of category
SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY - SINGLE EXPOSURE-	: Out of category
SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY - REPEATED EXPOSURE	: Out of category
ABSORPTION RESPIRATORY ORGANS TOXICITY	: Out of category

Environmental hazards

ACUTE AQUATIC TOXICITY	: Out of category
CHRONIC AQUATIC TOXICITY	: Out of category

GHS Label elements

Precautionary pictogram : Not applicable

Caution

【SAFETY MEASURE】

- : Do not inhale mist, vapour, and spray
- : Use it outside or at the place where the ventilation is good
- : Wear the protective equipment such as glove, goggle.
- : Wash hands after using it
- : Seal the container

【EMERGENCY MEASURE】

Take the suitable fire-extinguishing method in case of a fire.

In case of inhalation:

Move the victim to fresh air, get him/her take rest in easy breathing position

In case of eye-contact:

Wash carefully with water for a few minutes. When the contact lens can be removed easily, remove them. Also after that, continue washing.

When a stimulus of eyes continues, get him/her medical attention

Wash the skin in running water and a shower.

In case of ingestion:

Get him/her medical attention immediately

In case of feeling illness: See a doctor immediately

【STORAGE】

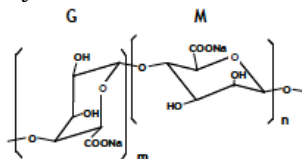
Avoid direct sunlight
 Keep the product well sealed with case in well-ventilated area.

【DISPOSAL】

Get the contaminant/contaminated container neutralized by licensed waste disposal contractor in accordance with the local related rules and regulations.

3 · COMPOSITION/INFORMATION ON INGREDIENTS

Distinction of Single substance and Compound : Compound
 Chemical Name or General Name : —

Component	Chemical Formula	CAS Number	Government and municipal offices reference number (CSCL Regulation, Industrial Safety and Health Law)
Sodium Alginate	Polymer  General Formula $(C_6H_8NaO_6)_n$	9005-38-3	(8)-237 11- (4) -21
Water	H_2O		
Pigment	—	Closed	Closed

- It is a polymer so the chemical formula is not specified. Generic structural formula is mentioned.
- Danger of harmful ingredients : No information.

4 · FIRST-AID MEASURES

INHALATION : Move the victim to fresh air, get him/her take rest in easy breathing position
 In case of feeling illness, see the doctor immediately

SKIN CONTACT : Wash the skin with flowing water or shower immediately
 When skin irritancy arises, see the doctor immediately
 In case of feeling illness, see the doctor immediately

EYE CONTACT : Wash carefully with water for a few minutes. When the contact lens can be removed easily, remove them. Also after that,

continue washing When a stimulus of eyes continues, see the doctor immediately
In case of feeling illness, see the doctor immediately.

INGESTION : Rinse mouth out. (Vomit)
In case of feeling illness, see the doctor immediately

5 · FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA : In case of small fire, it is applicable to use dry powder, carbon dioxide and water
In case of big fire, it is applicable to use water and fire-extinguishing foam.

FORBIDDEN EXTINGUISHING MEDIA : No information available

PARTICULAR HAZARD AND TOXICITY

: There is a possibility of generating stimulativeness and corrosive or toxic gas by a fire.
There is a possibility that a container may explode by heating.

PARTICULAR EXTINGUISHING MEDIA

: If not dangerous, move a container from fire zone.
Don't put in water in a container.
Fire fighting extinguishes the fire from the furthest distance that can be performed effectively using an uninhabited hose holding fixture or a nozzle with a monitor
In case of big fire, extinguishes the fire using an uninhabited hose holding fixture or a nozzle with a monitor
If this is impossible, refuge from the place and burn it.

PROTECTIVE EQUIPMENT : Wear proper apparatus and protective clothing

6 · ACCIDENTAL RELEASE MEASURES (In case of Product Dissolution)

PRECAUTIONS TO PERSONS, PROTECTION AND EMERGENCY MEASURE:

- When not having stuck suitable protective clothes, don't touch the damaged container or disclosure thing.
- Immediately, a suitable distance for all the directions is isolated as a disclosure zone.
- Entry other than the persons concerned is forbidden.
- Stop on the wind.
- Keep away from lowlands.
- A worker wears suitable protective equipment (see the clause of "8.Exposure Control/Personal Protection), and avoids the contact and inhalation to eyes and the

skin.

ENVIRONMENTAL PROTECTION MEASURES :

- It is discharged by the river etc. So warns against causing influence to environment.
- Don't emit into environment.

COLLECTING MEASURES AND NEUTRALIZATION :

- It absorbs or covers with the dry ground, sand, or incombustible substance, and moves to a container.
- Disclosure things are swept up together, and it collects in an empty container.

The method of containment and purification, and equipment : Stop the leak if not dangerous. Install all the equipment used when dealing with a disclosure thing.

The preventive measure of a second accident : All the sources of ignition are removed promptly. Smoking, sparks, and flame in the neighborhood forbid.

7 · HANDLING AND STORAGE

Handling

TECHNICAL COUNTERMEASURE : Follow the equipment measure mentioned in section 8.0 (Exposure Controls/Personal Protection) and wear proper apparatus/protective clothing

LOCAL EVACUATION OF AIR/

GENERAL VENTILATION : Use the local ventilation equipment and conduct general ventilation in section 8.0 (Exposure Controls/Personal Protection).

SAFETY PRECAUTIONS : The high temperature thing in the circumference, a spark, and use of fire are forbidden.
Do not contact, inhale or swallow
In order to maintain the concentration in the air below at an exposure limit, perform ventilation for an exhaust gas.
After handling, wash hands well.
Use only in the outdoors or a well-ventilated zone.

PHYSICAL CONTACT AVOIDANCE : Refer to section 10.0 (Stability And Reactivity)

Storage

TECHNICAL COUNTERMEASURE : A dangerous object is preserved in a storage place or lighting, proof and ventilation equipment required in order to deal with it is formed.

MIXED TOUCHING DANGEROUS
SUBSTANCE : Refer to section 10.0 (Stability And
Reactivity)

STORAGE CONDITION : Separates from an oxidizer and keeps it.
Keep the product well sealed with case in
well-ventilated area.

CONTAINER PACKING
MATERIAL : Use the container specified by Fire Defense Law

8 · EXPOSURE CONTROL / PERSONAL PROTECTION
CONTROL PARAMETERS : Not Identified

TOLERABLE LEVEL: (Exposure full limits, Biological exposure index) :
It is not set up. (Japan Society for Occupational Health
2010 version)

FACILITIES RECOMMENDED : Use the electricity, ventilation, and a light, etc., of
the explosion prevention specified by a manufacturer
In the workshop where this substance is treated, installation of eyewash stand and
safety shower is desirable.

【Protection】

RESPIRATORY PROTECTION : Appropriate respiratory protector
HAND PROTECTION : Appropriate protective gloves
EYE PROTECTION : Appropriate protector, safety goggles or a face visor
SKIN PROTECTION : Wash hands well after handling it.

9 · PHYSICAL AND CHEMICAL PROPERTIES

【APPEARANCE】

SHAPE : Liquid
COLOR : Pink (Red)
ODOR : Scentless ~ Minor peculiar odor
PH : 6 ~ 8
MELTING POINT / FREEZING
POINT : No data
BOILING POINT, INITIAL
BOILING POINT AND
BOILING RANGE : No data
FLASH POINT : No data
EXPLOSIVENESS : No data
VAPOR PRESSURE : No data
VAPOR DENSITY (AIR = 1) : No data
SPECIFIC GRAVITY (DENSITY) : Almost 1.0 g/cm³
SOLUBILITY : Almost 100g/close to 100g (20℃)

OCTANOL-WATER PARTITION
COEFFICIENT : No data
AUTO IGNITION TEMPERATURE : No data
DECOMPOSITION TEMPERATURE : No data
ODOR THERESHOLD : No data
EVAPORATION RATE(BUTYLE ACERATE = 1) : Not applicable
FLAMMABILITY (SOLID, GAS) : No data
VISCOSITY : No data

10 · HAZARD INFORMATION

STABILITY : It is stable under normal use and storage conditions.
When magnesium ion and a calcium ion are added, it
gelates.

POSSIBILITY OF HAZARD

REACTIONS : When making contamination with strong oxidizing agent,
there is a fear of reacts.

MATERIALS TO AVOID : Direct Sunlight, Heat

HAZARDOUS DECOMPOSITION

PRODUCTS : Carbon monoxide, Carbon dioxide

11 · TOXICOLOGICAL INFORMATION (The condition about a person and epidemiological information are included.)

【ACUTE TOXICITY】

ORAL : Rat DL50 > : 5000mg/kg
Even if it is swallowed toxicity is low, there is no
information on acute toxicity.

DERMAL : No data
ABSORPTION (VAPORS) : No data
ABSORPTION (DUST) : No data
SKIN PENETRATION : No data

【IRRITATION】

SKIN : No data
EYES : No data
OTHER : A special toxicity is not reported.

12 · ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION : A natural polymer is a principal raw material, so
the toxicity to hydrobiont is low.

DEGRADABILITY : A natural polymer is a principal raw material, so the biological
degradation is good.

CUMULATIVE DOSE : No Data

ICHTHYOTOXICITY : No Data

MOBILITY : It can be moved to water system and soil environment by physico-chemical quality.

13. DISPOSAL CONSIDERATIONS

SURPLUS DISPOSAL : Dispose the product in accordance with the local related rules and regulations. If the local authority assigns the licensed waste disposal contractors to do so dispose it with the licensed waste disposal contractors. Deliver the control manifest for industrial waste (manifesto) to an industrial waste treatment company, and entrust waste treatment. In the case, get them notice of the dangerousness and the hazardousness. Discharging directly the waste fluid and detergent drain containing this product in a river etc., reclaiming land as it is, or abandoning avoids.

CONTAMINATED CASE OR

CONTAMINATED PACKAGE : A container is made purification and is recycled or performs suitable disposal in accordance with related laws and regulations, and the standard of local government. When an empty container is discarded, remove content completely.

14. TRANSPORT INFORMATION

【DOMESTIC REGULATION】

GROUND TRANSPORTATION : No Special Regulation (Non-hazardous materials)

SEA TRANSPORTATION : No Special Regulation (Non-hazardous materials)

AIR TRANSPORTATION : No Special Regulation (Non-hazardous materials)

SPECIAL SAFETY MEASURE

: For a dangerous object, load up the products without falling, dropping or damage and prevent collapse of cargo piles securely. Carry so that the container which stored the dangerous object and the dangerous object does not cause friction remarkably or agitation. Don't convey together with food or feed.

【UN Classification】

Classification : Not applicable

UN number : Not applicable

15 · REGULATORY INFORMATION

FIRE DEFENSE LAW : Not applicable

INDUSTRIAL SAFETY AND

HEALTH ACT : Not applicable

SHIP SAFETY ACT : Not applicable

AVIATION LAW : No information

MARINE POLLUTION PREVENTION LAW : No information

WATER POLLUTION CONTROL LAW : Not applicable

PRTR LAW : Not applicable

POISON AND DELETERIOUS

SUBSTANCE CONTROL LAW : Not applicable

16 · OHER INFORMATION

【REFERENCE DATA】

Japan Advanced Information Center of Safety and Health
GHS Standard Model Label / Model MSDS Information
Sodium alginate
Label/ MSDS Creation Business Handbook (GHS Standard)
The Chemical Daily Co., Ltd.
Intelligible chemical management of the manufacturing industry
Ohmsha, Ltd.
Safety control of a chemistry article and communication / The book which
understands MSDS and GHS MARUZEN PUBLISHING CO.,LTD
PRTR / MSDS All the object substance data The Chemical Daily Co.,
Ltd.
GHS Classification Result Data Base nite (National Institute of
Technology and Evaluation) HP
GHS Model MSDS Information Japan Industrial Safety and Health Assoc.
Japan Advanced Information Center of Safety and Health HP
SHOWA CHEMICAL CO., LTD. Sodium alginate

Although this data is based on the knowledge at the time of creation, it is not necessarily enough.

Therefore, since it does not guarantee at all, please be careful of handling enough.