

Durae Corporation
Dangjeong-ro 56, Gunpo-si, Gyeonggi-do 15847, South Korea
Tel : +82-31-397-6066 Fax : +82-31-397-5322

Material Safety Data Sheet

1. Product and company name

- Trade name: Pine needle glycoprotein-0.1B
- Use: Cosmetic ingredient
- Company: Durae Corporation
Dangjeong-ro 56, Gunpo-si, Gyeonggi-do 15847, South Korea
Tel : +82-31-397-6066 Fax : +82-31-397-5322

2. Hazard identification

GHS classification of the substance or mixture

- Physical/chemical hazards : The classification criteria are not met.
- Health hazards : Not Classified
- Environmental hazards : The data available do not support any environmental Hazard
- Human health hazards : The data available do not support any adverse human health hazard

GHS label elements, including precautionary statements

- Hazard symbol : None
- Signal word : None
- Prevention : Wear appropriate personal protective equipment

3. Composition / INCI information on ingredients

INCI Name/Chemical Name	CAS No.	EINECS No.	Content
Glycoproteins	66455-27-4	-	0.1%
Water	7732-18-5	231-791-2	49.9%
Butylene Glycol	107-88-0	203-529-7	50%

4. First aid measures

- In case of skin contact : Wash with plenty of water for at least 15 minutes.
- In case of eye contact : Rinse away thoroughly with plenty of water at least at 15 minutes.
Seek immediate medical attention if it is needed.
- In case of ingestion : Wash out mouth immediately.
If large amount swallowed or symptoms develop obtain medical attention.
- In case of inhalation : There is no specific hazard to health caused by inhalation.
As a precaution, in inhalation, remove the victim from the contaminated area to fresh air.
Seek immediate medical attention, if it is needed.

5. Fire fighting measures

- Suitable extinguishing media : Dry chemical powder, regular foam, carbon dioxide, water spray, and dry powder.
- Specific hazards arising from chemical : The dried mixture may be combustible and will Burn if involved in a fire, evolving noxious fumes (eg. Carbon, nitrogen and phosphorous oxides).
- Special protective actions for fire-fighters : Move container from fire area if it can be done without risk. Use extinguishing media appropriate to surrounding fire. Fight the fire from a safe distance or protected location. Full protective clothing and self-contained breathing apparatus must be worn.

6. Accidental release measure

- Personal precautions, protective equipment, and emergency procedures
: Wear appropriate personal protective equipment including self-contained breathing apparatus which conform to the relevant national or international standards.
Work at the windward side.
Shut off all sources of ignition; No fires, smoking, flames or heat in area.
In case of spillage, evacuate personnel from immediate vicinity.
If the substance has adhered to people, wash the affect area with plenty of water.
- Methods and materials for containment and cleaning up
: Absorb spillages of solutions with a suitable inert material (e.g.sand or soil).
Carefully transfer the spillage to waste containers.
Containers filled with waste material must be labeled in the same way as the original containers.
Lager quantities and dispose of waste material should be collected and treated according to local regulations by incineration.
- Environmental Protection Measures : Avoid liquid to enter sewer/public waters.
Absorb the small overflows with inert solids.

7. Handling and storage

- Precautions for safe handling
: The substance should be handled under conditions of good industrial hygiene and in conformity with any local regulations in order to avoid unnecessary exposure.
Avoid any ingestion and skin contact and wear impermeable gloves, safety goggles and full personal protective equipment.
Shut off all sources of ignition : No fires, smoking, flames or heat in area.
Keep away from strong acids, strong bases and oxidizing materials.
- Conditions for safe storage, including any incompatibilities
: Store containers upright and tightly closed in a well-ventilated cool location, and keep away from sunlight.
- Shelf life : 12 months from manufactured date.

8. Exposure controls and personal protection

-Respiratory protection : Use local exhaust ventilation and make available emergency shower and eye wash in the work area. Use explosion-proof electrical/ventilating/lighting. Use only non-sparking tools.

- Individual protection measures, such as personal protective equipment

Eye/face protection : Wear safety glasses with side shields.

Skin protection : Wear suitable protective clothing.

Wear suitable gloves.

Respiratory protection : As the need arises, use an effective gas respirator to an organic solvent.

9. Physical and chemical properties

-Appearance :	Transparent Liquid
-Color :	Light Yellow~Yellow
-Odor :	Characteristic Odor
-Vapour pressure :	No information
-Viscosity :	No information
-Solubility :	No information
- pH :	4.5 ~ 6.5
-Specific gravity :	0.900~1.100
-Boiling point :	No information
-Flammability(solid, gas) :	No information

10. Stability and reactivity

-Reactivity : None significant effects know.

-Chemical stability : Stable under usual conditions

-Conditions to avoid : Heat, flames, sparks, dusting, and other sources of ignition.

-Materials to avoid : Avoid contact with strong alkalis and metals.

-Hazardous decomposition products : CO₂, H₂O

11. Toxicological information

-Acute toxicity

(Oral)

Water : No information

(Dermal)

Water : No information

12. Ecological information

-Toxicity

Acute fish toxicity : No data available

Acute crustacean toxicity : No data available

Acute algae toxicity : No data available

13. Disposal considerations

Disposal methods.

- Waste from Residues : Dispose of by incineration or landfill in accordance with local regulations. Stack gases should be scrubbed.
- Contaminated Packaging : Dispose of by incineration or landfill in accordance with local regulations.

14. Transport information

-UN No. : None

-UN proper shipping name : None

-TransportHazard class : None.

-Packing group, if applicable : None

-Environmental hazards

Marine pollutant : Not applicable

ICAO/IATA : Not applicable

-Special precautions for user : Transport in properly sealed containers.

Avoid spilling the substance by taking appropriate precautions.

Keep away from sunlight or rain and avoid rough handling or dropping.

Label all packaging and containers in accordance with regulations in force.

15. Regulatory information

-EU Classification Not classified according to pertinent EC regulation.

16. Other information

The information describing our product with regard to possible security requirements is based on the present state of our knowledge and experience and upon sources which we believe to be creditable. It is supplied with no guarantee, expressed or implicit, of exactitude, and it does not imply any responsibility for loss, damage or expense, derived from handling, use or elimination of the product.