

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : REGU®-AGE PF

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Use of the Substance/Mixture : Ingredient for personal care products

**1.3 Details of the supplier of the safety data sheet**

Company : DSM Nutritional Products  
45 Waterview Blvd  
US-07054-1298 Parsippany

Telephone : (908) 475-7373  
Telefax : (908) 475-7406  
E-mail address : sds.nutritionalproducts@dsm.com  
Responsible/issuing person

**1.4 Emergency telephone number**

Emergency # 1-800-424-9300 (24 HR CHEMTREC)

**SECTION 2. HAZARDS IDENTIFICATION****Emergency Overview**

Form: liquid, Colour: light yellow - amber - clear - turbid, Odour: No information available.

OSHA Hazards : NO OSHA HAZARDS

**Potential Health Effects**

Symptoms of Overexposure : No specific symptoms known.

**Carcinogenicity:****IARC**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**ACGIH**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

**Additional hazards and advice**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Brief description of the product : Mixture (preparation) containing active ingredients and auxiliary substances

**Hazardous components**

Component	CAS-No.	Weight percent
glycerol	56-81-5	10 - 30

**SECTION 4. FIRST AID MEASURES****First aid procedures**

- General advice : No hazards which require special first aid measures.
- Inhalation : Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion.  
If symptoms persist, call a physician.
- Skin contact : Take off contaminated clothing and shoes immediately.  
Wash off with soap and plenty of water.
- Eye contact : Flush eyes with water as a precaution.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.
- Ingestion : Clean mouth with water and drink afterwards plenty of water.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.

**Notes to physician**

- Symptoms : No specific symptoms known.
- Treatment : Treat symptomatically.

**SECTION 5. FIREFIGHTING MEASURES****Flammable properties**

- Flash point : > 320 °F (> 160 °C)
- Ignition temperature : not determined
- Lower explosion limit : not determined
- Upper explosion limit : not determined

**Fire fighting**

- Suitable extinguishing media : Alcohol-resistant foam  
Dry chemical  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

**Protective equipment and precautions for firefighters**

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Specific hazards during firefighting : None known.  
 Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions : Use personal protective equipment.  
 Environmental precautions : Try to prevent the material from entering drains or water courses.  
 Methods for containment / Methods for cleaning up : Keep in suitable, closed containers for disposal.

**SECTION 7. HANDLING AND STORAGE****Handling**

Handling : For personal protection see section 8.  
 No special handling advice required.  
 Advice on protection against fire and explosion : Take precautionary measures against static discharges.

**Storage**

Requirements for storage areas and containers : Keep container tightly closed and dry.  
 Protect against light.  
 Advice on common storage : No special restrictions on storage with other products.  
 Storage temperature : 36 - 46 °F (2 - 8 °C)

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Exposure Guidelines****Components with workplace control parameters**

Components	CAS-No.	Value	Control parameters	Update	Basis
glycerol	56-81-5	TWA	10 mg/m <sup>3</sup>	2010-03-01	ACGIH
		Upper Respiratory Tract irritation			
		TWA	15 mg/m <sup>3</sup>	2007-01-01	OSHA P1
		total dust			
		TWA	5 mg/m <sup>3</sup>	2007-01-01	OSHA P1
		respirable fraction			

**Engineering measures**

For technical measures see section 7.

**Personal protective equipment**

Eye protection	: Safety glasses
Hand protection	: Glove material: for example nitrile rubber
Skin and body protection	: Protective suit
Respiratory protection	: No personal respiratory protective equipment normally required.
Hygiene measures	: General industrial hygiene practice.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES****Appearance**

Form	: liquid
Colour	: light yellow - amber - clear - turbid
Odour	: No information available.

**Safety data**

Flash point	: > 160 °C
Ignition temperature	: not determined
Thermal decomposition	no data available
Lower explosion limit	: not determined
Upper explosion limit	: not determined
Flammability (solid, gas)	: Not classified as supporting combustion according to the transport regulations.
Explosive properties	: no data available
Oxidizing properties	: no data available
Autoignition temperature	: no data available
pH	: 5.3 - 6.3
Melting point/range	: not determined
Boiling point/boiling range	: not determined
Vapour pressure	: not determined
Density	: not determined
Water solubility	: soluble
Partition coefficient: n-octanol/water	: no data available
Solubility in other solvents	: Oils and fats: insoluble

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Viscosity, dynamic	: not determined
Relative vapour density	: not applicable
Relative density	: 1.055 - 1.090, 20 °C
Evaporation rate	: not determined
Odour Threshold	: No information available.

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	: No hazards to be specially mentioned.
Chemical stability	: Stable under recommended storage conditions.
Hazardous reactions	: Possible incompatibility with materials listed under section 10.5.
Conditions to avoid	: Heat.
Materials to avoid	: Strong acids and strong bases Strong oxidizing agents
Hazardous decomposition products	: No decomposition if used as directed.

**SECTION 11. TOXICOLOGICAL INFORMATION**

Acute oral toxicity	: no data available
Skin irritation	: No skin irritation (human, Patch Test 48 Hrs.) Test performed using a similar product.
Sensitisation	: no data available
Carcinogenicity	: This information is not available.
Genotoxicity in vitro	: no data available
Reproductive toxicity	: This information is not available.
STOT - repeated exposure Chronic exposure	: This information is not available.

**SECTION 12. ECOLOGICAL INFORMATION****Elimination information (persistence and degradability)**

Bioaccumulation	: no data available
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Distribution among environmental compartments : no data available

Biodegradability : no data available

**Further information on ecology**

Additional ecological information : There is no data available for this product.

**Ecotoxicology Assessment**

Results of PBT assessment

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).  
This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

**SECTION 13. DISPOSAL CONSIDERATIONS**

Further information : Offer surplus and non-recyclable solutions to a licensed disposal company.

User must determine if any wastes generated exhibit hazardous characteristics as per 40 CFR Part 261 or other national / local legislation.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

**SECTION 14. TRANSPORT INFORMATION****DOT**

Not dangerous goods

**TDG**

Not dangerous goods

**IATA**

Not dangerous goods

**IMDG**

Not dangerous goods

**RID**

Not dangerous goods

**Special precautions for user**

Not classified as dangerous in the meaning of transport regulations.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

not applicable

**SECTION 15. REGULATORY INFORMATION**

OSHA Hazards : No OSHA Hazards

CERCLA Reportable Quantity :

This material does not contain any components with a CERCLA RQ.

SARA 311/312 Hazards : No SARA Hazards

### EPCRA - EMERGENCY PLANNING COMMUNITY RIGHT - TO - KNOW

SARA 302 Reportable Quantity : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

This material does not contain any components with a SARA 302 RQ.

SARA 304 Extremely Hazardous Substances : This material does not contain any components with a section 304 EHS RQ.

SARA 313 Components : SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### Clean Air Act

Ozone-Depletion Potential : This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

glycerol	15.3365 %
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2-phenoxyethanol	0.9 %
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sodium benzoate	0.5 %
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### Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

### US State Regulations

Massachusetts Right To Know

Components	: glycerol	56-81-5
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Pennsylvania Right To Know

Components	: glycerol	56-81-5
	Protein hydrolyzates, rice bran	94350-05-7

New Jersey Right To Know

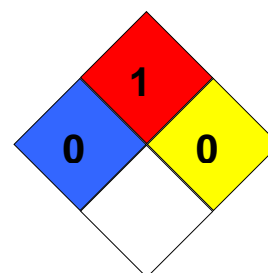
Components	: glycerol	56-81-5
	Protein hydrolyzates, rice bran	94350-05-7

### The components of this product are reported in the following inventories:

US.TSCA	Not On TSCA Inventory	
	Protein hydrolyzates, rice bran	94350-05-7
		9055-15-6

DSL

This product contains the following components that are not on the Canadian DSL nor NDSL lists.

Protein hydrolyzates, rice bran 94350-05-7  
9055-15-6**SECTION 16. OTHER INFORMATION****Further information**HMIS Classification : Health hazard: 1  
Flammability: 1  
Physical hazards: 0NFPA Classification : Health hazard: 0  
Fire Hazard: 1  
Reactivity Hazard: 0

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

E-mail address : sds.nutritionalproducts@dsm.com  
Responsible/issuing person

**Abbreviations:** ACGIH = American Conference of Governmental Industrial Hygienists. CERCLA = Comprehensive Environmental Response, Compensation and Liability Act. CFR = Code of Federal Regulations. CPR = Controlled Products Regulations. DSL = Canadian Domestic Substance List. DOT = Department of Transportation. EINECS = European Inventory of New and Existing Chemical Substances. EPA = Environmental Protection Agency. HCS = Hazardous Communication Standard. HEPA = High Efficiency Particulate Air. HMIS = Hazardous Material Identification System. IARC = International Agency for Research on Cancer. IATA = International Air Transport Association. IMDG = International Maritime Dangerous Good. NFPA = National Fire Protection Association. NIOSH = National Institute of Occupational Safety and Health. NJTSR = New Jersey Trade Secret Registry. NTP = National Toxicology Program. OSHA = Occupational Safety and Health Administration. SARA = Superfund Amendments and Reauthorization Act. TDG = Transportation of Dangerous Goods. TLV = Threshold Limit Value. TSCA = Toxic Substance Control Act. WHMIS = Workplace Hazardous Materials Information System.