GHS Material Safety Data Sheet

1. IDENTIFICATION	
1.1 Product name :	AGINON
1.2 Company Details :	
Manufacturer	RADIANT
Address	31, Geodudanji-1gil, Dongnae-myeon, Chuncheon, Gangwon-do, Republic of Korea
Tel	033-244-1243
Fax	033-244-1367
1.3 Others	
Application Area	Cosmetics
Maximum Used Amount :	No Limitation

2. HAZARD IDENTIFICATION		
2.1 Hazard Classification	No data	
2.2 Label Elements Including Precautionary Statements		
Symbol	No data	
Signal word	No data	
Hazard statements	No data	
Precautionary statements		
Prevention	No data	
Response	No data	
Storage	No data	
Disposal	No data	
2.3 Other Hazard. Risk which are not included in the classification criteria	Butylene Glycol	
	Health	1
	Fire	1
	Response	0

3. COMPOSITION / INFORMAION ON INGREDIENTS

INCI Name	CAS No.	Contents(%)
Butylene Glycol	107-88-0	50.0
Water	7732-18-5	49.75
Thamnolia Vermicularis Leaf Extract	N/A	0.25

4. FIRST-AID MEASURES

4.1 If in Eyes	Immediately upon contact with the material, Wash skin and eye with the running water at least 20 minutes. Get immediate medical attention.
4.2 If on Skin	Immediately upon contact with the material, Wash skin and eye with the running water at least 20 minutes. Remove contaminated clothing and shoes and Isolate contaminated area. Wash clothing and shoes thoroughly before reuse. Get immediate medical attention.
4.3 If Inhaled	Get emergency medical attention. Remove person to a place with fresh air. If not breathing, try artificial respiration. If the men is difficult to breathe, give an administer oxygen.
4.4 If Ingested	Do not feed anything to an unconscious person. Get immediate medical attention.
4.5 Other Note to physicians	Have medical personnel know about the material and take protective measures Do not administer adrenaline.

5. FIRE-FIGHTING MEASURES	
5.1 Suitable (and Unsuitable) Extinguishing Media	Small-scale fire : dry sand, dry chemical, alcohol-resistant foam, water spray, general foam, CO2 (Suitable extinguishing media) Large-scale fire : water spray/mist, general foam(Suitable extinguishing media) High pressure water (Unsuitable extinguishing media)
5.2 Specific Hazards Arising from the Chemical	Can be ignited by heat, spark, flame Container may explode on heating Some of the materials are burning but not easily ignited. May cause irritation and poisonous gas in case of fire Inhalation of the substance may be harmful Some fluids my cause vapors inducing dizziness, suffocation.
5.3 Special Protective Equipment and Precautions for Fire-Fighters:	Rescuers should wear appropriate protective equipment. Extinguish the area and maintain safety distance. Be aware that it may be melted and transported. Dig ditches for the disposal of extinguish water and keep them from dispersing. Move container from fire area if it is not hazardous. In case of tank fire, extinguish at maximum distance or use manless fire equipment In case of tank fire, cool containers with large amounts of water even after the fire has evolved. In case of tank fire, step away immediately if there is treble sound in pressure release device during the tank fire or if the thank is discolored In case of tank fire, step away from the tank engulfed in flames. In case of tank fire, for large-scale fire, use manless fire equipment or let it burn it not possible. Splashed water by the container is heated and exploded may cause burns to skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions & Protective Equipment	Remove all ignition sources. Stop the leak if it is not dangerous. Note the substances and conditions to avoid Ventilate contaminated areas. Do not touch exposed objects or walk around. Prevent dust formation. Do not enter the space without an adequate respirator, such as an air respirator or a breathing mask, until adequate air (18-23.5% oxygen) is secured.
6.2 Environmental Precautions	Prevent of inflow to waterways, sewers, basements and enclosed space.
6.3 Methods for Cleaning up	In case of small leakage, flush contaminated area with large amount of water In case of small leakage, absorb with sand, non-combustible material and put it in the container. In case of large leakage, make a dich far away from liquid spill. Place the spill in a clean, dry container with a clean shovel and close loosely, then transfer container from leak area. In case of powder leakage, cover with plastic sheet to prevent diffusion and keep it dry.

7. HANDLING AND STORAGE

7.1 Handling Precautions	Note the substances and conditions to avoid Wash thoroughly after handling Work with engineering management and personal protective equipment. Be careful of the high temperature. Be careful not to spill. In case of material spillage, reduce the oxygen concentration in the air and cause suffocation in an enclosed space Check the oxygen concentration before entering the place. There is a danger of oxygen loss due to high concentration in the air, resulting in loss of consciousness or death. Be careful not to spill. In case of material spillage, there is possibility of serious suffocation in an enclosed space as liquid evaporates rapidly and replaces air Be careful not to spill. In case of material spillage, the harmful concentration of this gas reaches very quickly in the air. Do not spray. When spray, the harmful concentration of air particles can reach very quickly. Keep the temperature below 20℃as this material evaporates slowly and reaches hazardous concentration at 20℃. Do not spray. Evaporation hardly occurs at 20℃, however, the harmful concentration of air particles can reach very quickly when be sprayed (especially for powder) Check the oxygen concentration before entering the site. Do not spray as it evaporate faster when be sprayed.
7.2 Storage Conditions	Keep tightly closed. Store in a cool, dry place. Note the substances and conditions to avoid.

8. EXPROSURE CONTROLS / PERSONAL PROTECTION	
8.1 Exposure standards for chemicals, Biological exposure standards, etc.	
Internal regulations	No data
ACGIH regulations	Not applicable
Biological Limit Values	Not applicable
Other Limit Values	No data
8.2 Engineering Controls	Need process isolation, exhaust or keep air levels below exposure limits.
8.3 Personal Protective Equipment	
Respiratory protection	Wear respiratory protection which has been approved by the Occupational Safety and Health Administration in accordance with the physicochemical properties of the exposed gas/liquid The following types of respiratory protection are recommended for gas / liquid substances. The following types of respiratory protection are recommended for gas / liquid substances – Separated type face masks (for organic compounds (acidic gases properties for acid gas)) or isolated type face masks(for organic compounds (acidic gases properties for acid gas) or direct-front type face masks (for organic compounds (acidic gases properties for acid gas)) or counter type of respirator masks (for organic compounds (acidic gases properties for acid gas)) or electric respirator masks. If oxygen is low (<19.5%), wear a ventilation mask or self-contained breathing apparatus
Eye protection	Wear breathable goggles to protect the eyes against particulate matter that may cause eye irritation or other health hazards Install an emergency cleaning facility (shower) and a facial cleansing equipment in a location where workers can easily access. Wear hermetic goggles to protect your eyes from gaseous organic substances that cause eye irritation or other health hazards Wear safety goggles or breathable goggles to protect eyes from organic vapor which can cause eye irritation or other health hazards

	Wear breathable safety goggles to protect eyes against particulate matter that may cause eye irritation or other health hazards Wear hermetic safety goggles to protect eyes from gaseous organic substances that cause eye irritation or other health hazards Wear safety goggles or a ventilated goggles to protect your eyes from vaporous organic materials that cause eye irritation or other health hazards Wear eye protection which may cause irritation to eyes or other health hazards. - hermetic safety goggles for gaseous organic substances, enclosed safety goggles - safety goggles or breathable safety goggles for organic vapor substances - breathable goggles for particulate substances.
Hand protection	Wear protective gloves of proper material in consideration of the physical and chemical properties of the chemical
body protection	Wear appropriate protective clothing, considering the physical and chemical properties of the chemical

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Appearance	Light Yellow - Brown Liquid
9.2 Odor	Typical
9.3 Specific Gravity at 20℃	0.980 - 1.100
9.4 pH(10% sol.)	4.00 - 7.00
9.5 Heavy metal	≤ 20ppm
9.6 Arsenic (As)	≤ 2ppm
9.7 Flash point	121℃

10. STABILITY AND REACTIVITY	
10.1 Chemical Stability and Possibility of Hazardous Reactions:	Container may explode on heating. Some can be burned, but not easily be ignited. Non-flammable, the substance itself is not burned but decomposes by heating and may cause corrosive / toxic fumes. Can cause irritating, corrosive and toxic gases when in fire. Stable at normal temperature and pressure.
10.2 Conditions to avoid	Ignition source such as heat, spark, flame
10.3 Materials to avoid	Combustible material, reductive material, water reactive material
10.4 Hazardous materials generated during decomposition	During burning, may produce irritating and highly toxic gases by pyrolysis or combustion. Corrosive / Toxic fume
11. TOXICOLOGICAL INFORMATION	
11.1 Information on the likely Routes of Exposure 11.2 Information on the Health Hazards	See Chemical Information Search at Korea Occupational Safety & Health Agency (www. Kosha.or.kr)
12. ECOLOGICAL INFORMATION	
12.1 Ecotoxicity 12.2 Persistence and Degradability 12.3 Bioaccumulative Potential 12.4 Mobility in Soil 12.5 Additional Environmental Information	See Chemical Information Search at Korea Occupational Safety & Health Agency (www. Kosha.or.kr)

13. DISPOSAL CONSIDERATIONS	
13.1 Product Disposal	Pre-treat with oil and water separation method if possible to separate oil and water.
13.2 Disposal considerations	Consider the precautions specified in the regulations if specified in the Waste Management Act.

14. TRANSPORT INFORMATION	
14.1 UN No.	UN transport hazard class: None
14.2 Proper Shipping Name	Not applicable
14.3 Hazard Class in Transportation	Not applicable
14.4 Container Class	Not applicable
14.5 Marine Pollutant	No data
14.6 Special precautions you need or need to know in relation to transport or transportation	
Emergency measures in case of fire	Not applicable
Emergency measures in case of leakage	Not applicable
14.7 IATA transportation regulations	This product is not regulated as a hazardous material by the IATA transportation regulations

15. REGULATORY INFORMATION	
15.1 Regulation by the Industrial Safety and Health Act	Not applicable
15.2 Regulation by the Hazardous Chemical Substances Control Act	Not applicable
15.3 Regulation by Dangerous Substance Safety Management Act	4 Class 3 petroleum (water-soluble liquid) (4000L)
15.4 Regulation by Wastes Management Act	Designated waste

15.5 Other Domestic or International Regulations	
Domestic regulation	
- Persistent Organic Pollutant Control Act	Not applicable
International regulation	
- USA management information (OSHA Regulation)	Not applicable
- USA management information (CERCLA Regulation)	Not applicable
- USA management information (EPCRA 302 Regulation)	Not applicable
- USA management information (EPCRA 304 Regulation)	Not applicable
- USA management information (EPCRA 313 Regulation)	Not applicable
- USA management information (Rotterdam Convention substance)	Not applicable
- USA management information (Stockholm Convention substance)	Not applicable
- USA management information (Montreal Protocol substance)	Not applicable
- EU classification information (confirmed classification result)	Not applicable
- EU classification information (Risk phrases)	Not applicable
- EU classification information (Safety phrases)	Not applicable

16. OTHER INFORMATION

16.1 Information Source	Korea Occupational Safety & Health Agency (www. Kosha.or.kr)
16.2 First Issuing Date :	2018. 06. 15
16.3 Revision No. & The Latest Revision Date	1, 2024. 01. 05
16.4 Others	
Application Area	Cosmetics
Maximum Used Amount:	No Limitation

This information is based on known knowledge to date.
The purpose of this Material Safety Data Sheet is to ensure the safety and health of substances, operators and the environment
The data in this Material Safety Data Sheet is not guarantee the properties of the material.