



SECTION 1: IDENTIFICATION

GHS product identifier	Keratin Complex [®] 40Vol. Developer	
Other means of identification	None	
Recommended use of the product and restrictions on use	Hair Care/Treatment: FOR USE BY CERTIFIED PROFESSIONALS ONLY	
Supplier's details	Developed for and Distributed by: KERATIN COMPLEX Boca Raton, Florida (U.S.A.), Tel: (561) 206-6050 www.keratincomplex.com	Authorized Joint Holder of EU PIF: Bruce Green Ltd. Northampton, NN6 7PD
Emergency phone number:	For Hazardous Materials [or Dangerous Goods] Incident Spill, Leak, Fire, Exposure, or Accident call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-527-3887	

SECTION 2: HAZARD(S) IDENTIFICATION

Classification	Oxidizing Liquids Category 3	
	Serious Eye Damage / Eye Irritation Category 2A	
GHS label elements, including Precautionary Statements	 Warning  Warning	HEALTH STATEMENT
		Warning May intensify fire; oxidizer
		Warning Causes serious eye irritation
		PRECAUTIONARY STATEMENTS
		<i>Prevention</i>
		Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
		Keep away from clothing and other combustible materials.
		Wear suitable protective gloves, apron and eye protection.
		Wash hands thoroughly after handling.
		<i>Response</i>
		IN CASE OF FIRE: Use an extinguishing agent suitable for the surrounding fire.
		IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If irritation persists: Get medical attention.
		<i>Storage</i>
See Sections 7 and 10 of this SDS		
<i>Disposal</i>		
Dispose of contents/container in accordance with all federal, state and local applicable regulations.		
Other hazards which do result in classification	Not available	

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components Chemical Identity (IUPAC)	Identification Number (CAS Number)	Other Unique Identifier (EC Number)	Concentration Range (% ^{w/w})
Hydrogen Peroxide	7722-84-1	231-765-0	10 - 12

SECTION 4: FIRST-AID MEASURES

Description of necessary First-Aid measures	Inhalation:	Remove individual to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention if you feel unwell.
	Skin:	Wash the contaminated skin gently and thoroughly with running water and non-abrasive soap.
	Eye contact:	Immediately rinse cautiously with water for several minutes keeping eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention if you feel unwell.
	Ingestion:	Immediately call a Poison Center. Rinse mouth. Do not induce vomiting. Seek medical attention immediately.
	<i>General Advice:</i> If you have significant concerns please consult a physician, show this data sheet to the doctor in attendance.	
Most important symptoms/effects	Acute:	Overexposure if direct contact with eyes may causes severe damage, redness, itching and watering. Symptoms of skin overexposure may include redness, itching, and irritation of affected areas. The product can cause allergic skin reactions (e.g., rashes, dermatitis) in some sensitive individuals.
	Delayed:	Not available
Indication of immediate medical attention and special treatment needed if necessary	Notes to physician:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Specific Treatments:	Not available
	Protect of first-aiders:	Use protective equipment (Section 8)

SECTION 5: FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Use an extinguishing agent suitable for the surrounding fire.	
Unsuitable extinguishing media:	Not available	
Specific hazards arising from the product combustion:	Oxidizing liquid; may intensify fire. If heated, a pressure increase will occur and the container may burst.	
Hazardous thermal decomposition products:	May produce toxic fumes of carbon monoxide if burning.	
Special protective precautions and equipment for fire-fighters:	Protective precautions:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	Protective equipment:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with full face-piece operated in positive pressure mode.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures	For non-emergency personnel:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal equipment.
	For emergency responders:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental Precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).	
Methods and materials for containment and cleaning up	For Small Spills <i>e.g.,</i> <i>< 1 gallon</i> <i>(3.8L)</i>	Wear appropriate personal protective equipment (e.g., safety glasses, apron, and nitrile gloves). Maximize ventilation (open doors and windows) Removed spilled material with non-combustible absorbent material and place it into appropriate closed container(s) for disposal. Dispose in accordance with local, state and federal regulations. Wash all affected areas and outside of container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before reuse.
	For Large Spills <i>e.g.,</i> <i>> 1 gallon</i> <i>(3.8L)</i>	Deny area access to all unprotected individuals. Provide diking and contain with non-combustible inert material (e.g., sand or earth) to keep material from spreading. Transfer diked material to containers for recovery or disposal and solid diking material to separate containers for proper disposal according to local regulations (see Section 13). Remove contaminated clothing promptly and wash affected skin areas with mild soap and water. Keep spills and cleaning runoffs out of municipal sewers and open bodies of water.

SECTION 7: HANDLING AND STORAGE

FOR USE BY CERTIFIED PROFESSIONALS ONLY		
Precautions for safe handling	Protective measures:	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep away from clothing, incompatible materials (see Section 10) and combustible materials. Keep away from heat.
	Advice on general occupational hygiene:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Separate from reducing agents and combustible materials.	

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters	Chemical Identity (IUPAC)	Occupational Exposure Limit	Source	
	Hydrogen Peroxide	TWA 1 ppm (1.4 mg/m ³)	OSHA PEL	
Appropriate Engineering Controls	Good general ventilation should be sufficient to control exposure to airborne contaminants.			
Environmental Exposure Controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.			
Individual Protection Measures, such as Personal Protective Equipment (PPE)	Hygiene measures:	When using do not eat, drink or smoke. Avoid contact with eyes, skin and clothing.		
	Eye / face protection:	Wear safety glasses (optional)		
	Skin protection	Hand protection:	Wear suitable gloves	
		Body protection:	Wear suitable protective clothing	
	Other skin protection:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling the product.		
Respiratory protection:	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.			
Thermal hazards:	Not relevant			

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Color	White
Odor	Odorless
Melting point/freezing point	Not available
Boiling point	>100°C(>212°F)
Flammability	Not relevant – Not flammable
Lower and upper explosion limit/flammability	Not relevant
Flash point	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
pH at 25°C	2.5 – 3.5
Viscosity at 25°C	1,000 – 3,000 cps
Solubility	Soluble in water
Partition coefficient: n-octanol/water (log value)	Not available
Vapor pressure	Not available
Relative density	1
Relative vapor density	Not available
Particle characteristics	Not relevant – Liquid

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Not available.
Chemical Stability	Product is stable under normal ambient storage conditions of temperature and pressure.
Possibility of Hazardous Reactions	Risk of intensifying a fire may occur if product comes to contact with combustible materials.
Conditions to Avoid	Keep protected from direct sunlight, excessive heat or ignition source in a cool place. Do not burn or freeze.
Incompatible materials	Reducing agents, metal and combustible materials.
Hazardous decomposition products	Under normal conditions of storage use, hazardous decomposition products should not be produced.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological effects:	Acute toxicity:		Not available				
	Irritation / Corrosion:	Hazardous Components	Results	Species:	Score	Exposure	Observation
		Chemical Identity (IUPAC)					
		Hydrogen Peroxide	Eyes: Severe irritant	Rabbit	-	1 mg	-
	Sensitization:		Not available				
	Mutagenicity:		Not available				
	Carcinogenicity:	Classification:	Hazardous Components	OSHA	IARC	NTP	
			Chemical Identity (IUPAC)				
			Hydrogen Peroxide	-	3	-	
	Reproductive toxicity:		Not available				
	Teratogenicity:		Not available				
	Specific target organ toxicity (single exposure):		Not available				
	Specific target organ toxicity (repeated exposure):		Not available				
Aspiration hazard:		Not available					
Information on the likely routes of exposure	Skin exposure: No known significant effects or critical hazards.						
Symptoms related to the Physical, Chemical and Toxicological Characteristics	Eye contact:	Adverse symptoms may include the following: pain or irritation, watering, redness.					
	Inhalation:	Not available					
	Skin contact:	Not available					
	Ingestion:	Not available					
Delayed and immediate effects and also chronic effects from Short and Long Term Exposure	Short term exposure:	Potential immediate effects:	Not available				
		Potential delayed effects:	Not available				
	Long term exposure:	Potential immediate effects:	Not available				
		Potential delayed effects:	Not available				
	Potential chronic health effects:	General:	Not available				
Carcinogenicity:		Not available					
Mutagenicity:		Not available					
Teratogenicity:		Not available					
	Developmental effects:	Not available					
	Fertility effects:	Not available					
Numerical measures of Toxicity	Acute toxicity estimates:	Not available					







SECTION 12: ECOLOGICAL INFORMATION

Toxicity	Hazardous Components Chemical Identity (IUPAC)	Result		Species			Exposure	
	Hydrogen Peroxide	Acute EC50 1.2mg/L	Marine water	Algae	Dunaliella tertiolecta	Exponential growth phase	72	hours
		Acute EC50 5.38mg/L	Fresh water	Algae	Pseudokirchneriella subcapitata		96	hours
		Acute EC50 2320µg/L	Fresh water	Daphnia	Daphnia magna	Neonate	48	hours
		Acute EC50 93ppm	Fresh water	Fish	Oncorhynchus mykiss		96	hours
Chronic NOEC50 989.7ppm		Fresh water	Fish	Ocorhynchus tshawytscha	Egg	43	days	
Persistence and Degradability	Not available							
Bioaccumulative potential	Hazardous Components Chemical Identity (IUPAC)	LogP _{ow}		BCF		Potential		
	Hydrogen Peroxide	-1.36		-		low		
Mobility in soil	Soil/water partition coefficient (K _{oc}): Not available							
Other Adverse Effects	Not available							

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal methods	Dispose of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Care should be taken when handling emptied containers that have not been cleaned or rinse out. Dispose according to Federal, State, and local regulations regarding health, air, and water pollution.
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SECTION 14: TRANSPORT INFORMATION

	DOT	TDG	Mexico	ADR/RID	IMDG	IATA-DGR
Un Number	UN2984	UN2984	UN2984	UN2984	UN2984	UN2984
Proper Shipping Name	Hydrogen peroxide, aqueous solutions	HYDROGEN PEROXIDE AQUEOUS SOLUTION	PEROXIDO DE HIDROGENO EN SOLUCION ACUOSA	HYDROGEN PEROXIDE AQUEOUS SOLUTION	HYDROGEN PEROXIDE AQUEOUS SOLUTION	Hydrogen peroxide, aqueous solutions
Transport Hazard Class						
Packing Group	III	III	III	III	III	III
Environmental Hazards	Not available					
Transport In Bulk	Not available					
Special Precautions	Do not heat or freeze: (Best-suggested environmental conditions for transport: 25°C ± 2° Celsius and 60% ± Relative Humidity)					
ADDITIONAL INFORMATION						
DOT Classification	Limited quantity		Packaging instruction		Special provisions A1, IB2, IP5, T4, TP1, TP6, TP24, TP37	
	Yes		<i>Passenger aircraft</i>			
			Quantity limitation: 2.5 L			
			<i>Cargo aircraft</i>			
TDG Classification	Explosive Limit and Limit Quantity Index			Passenger Carrying Road or Rail Index		
	5			2.5		
Mexico Classification	Special provisions					
	65					
ADR/RID	Hazard identification number		Limited quantity		Special provisions	Tunnel code
	50		LQ13		65	(E)
IMDG Class	Emergency schedules (EmS)					
	F-H, S-Q					
IATA-DGR Class	Passenger and Cargo Aircraft		Cargo Aircraft Only		Limited Quantities – Passenger Aircraft	
	Quantity limitation: 2.5 L		Quantity limitation: 30 L		Quantity limitation: 1 L	
	Packaging instructions: 514		Packaging instructions: 515		Packaging instructions: Y514	

SECTION 15: REGULATORY INFORMATION

Safety, Health and Environmental Regulations specific for the product in question	Regulated as a Cosmetic under FDA (US), HPB (Canada), Cosmetic Regulation (EU)
	UNITED STATES OF AMERICA:
	<i>Federal</i> All of the ingredients in the formulation are compliant with the Federal Food, Drug, and Cosmetics Act (FDA) and this product is safe to be used by professional hair dressers previously trained and certified to use this product.
	<i>California</i> This product is not subject to warning labeling under California Proposition 65
	CANADA: All ingredients are CEPA approved for import to Canada.
EUROPE: All of the ingredients in the formulation are compliant with European Commission Health and Consumers Cosmetics - CosIng current Regulations/Directives	
AUSTRALIA: All of the ingredients where evaluated in part under HSIS.	

SECTION 16: OTHER INFORMATION

Date of preparation of the SDS	
April 15, 2019	
Key/legend to abbreviations and acronyms used in the SDS.	
ACGIH	American Conference of Governmental Industrial Hygienist
ADR	The European Agreement concerning the International Carriage of Dangerous Goods by Road
°C	Degrees Celsius
CAS	Chemical Abstract Service
CEPA	Canadian Environmental Protection Act
CFR	Code of Federal Regulations
Cps	Centipoises
EC	European Community
EEC	European Economic Community
e.g.	Meaning "for example." It is short for the Latin <i>exempli gratia</i> , "for the sake of example."
FDA	Food and Drug Administration
GHS	Globally Harmonized System
HPB	Health Protection Branch
HSIS	Hazardous Substances Information System
IATA	International Air Traffic Association
IUPAC	International Union of Pure and Applied Chemistry
IMDG	International Maritime Dangerous Goods
mg/m ³	Milligrams per cubic meter
OSHA	Occupation Safety & Health Administration
PEL	Permissible Exposure Limit
PIF	Product Information File
Ppm	Parts Per Million
Ref	Reference
Vol.	Volume
TWA	Time Weighted Average
UN	United Nations
Literature references.	
<ul style="list-style-type: none"> Globally Harmonized System of Classification and Labeling of Chemicals (GHS), Seventh revised edition, United Nations, New York and Geneva, 2017 ST/SG/AC.10/30/Rev.7 	
Sources for data	
<ul style="list-style-type: none"> European Commission Database For Information On Cosmetics Substances And Ingredients (CosIng) United States Of America's National Library Of Medicine's Toxicology Data Network (TOXNET) The European Agreement Concerning The International Carriage Of Dangerous Goods By Road, United Nations, New York And Geneva, 2016, ECE/TRANS/257(ADR) Safe Work Australia, Hazardous Substances Information System (HSIS) International Air Transport Association, Dangerous Goods Regulations (IATA) The National Institute for Occupational Safety and Health (NIOSH) – website address: https://cdc.gov/niosh Haz-Map® Occupational Health Database, U.S. National Library of Medicine. Information on Hazardous Chemicals and Occupational Diseases by Jay A. Brown, M.D., M.P.H. - website address: https://hazmap.nlm.nih.gov 	

GHS Pictograms



GHS01
Explosive



GHS02
Flammable



GHS03
Oxidizer



GHS04
Pressurized



GHS05
Corrosive



GHS06
Toxic



GHS07
Harmful Irritating



GHS08
Health Hazard



GHS09
Environment

Precautionary pictograms From European Union
(COUNCIL DIRECTIVE 92/58/EEC of 24 June 1992)



Eye protection



Respiratory equipment



Face protection



Safety overalls



Safety boots

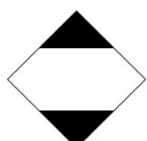


Safety gloves

ADR, Annex A General provisions and provisions concerning dangerous substances and articles; Classification; Class Specific Provisions



Class 5.1 HAZARD
Oxidizing Substances



Limited Quantities
Except For Air Transport



Limit Quantities by Air

Declaration

Keratin Complex believes that the information contained in this SDS is correct as of its last revision date (same as listed above). However, because conditions and usage methods of our products are beyond Keratin Complex control, of or in ways we cannot anticipate, we give no warranty, expressed or implied, as to accuracy of the information and assume no responsibility for any damage to person, property or business arising from such use. Moreover, it is the responsibility of the purchaser or user of this product to ensure that is properly and safely used. This SDS does not replace any other document, such as instructional leaflets or inserts. Under no circumstances does it constitute an exemption from the obligation to know and apply all the regulations governing its activity. This SDS replaces all previous versions of this product's SDS.

End SDS.