

SAFETY DATA SHEET



Issuing Date: 10-Sep-2018

Revision date 26-Jun-2019


Version 1.01

1. IDENTIFICATION

Product Name	EC30 Shampoo
Product Identifier	MF EXP-17-AV5990-S_RANDD_NG
Product Type:	R&D Material
Recommended Use	Intermediate.
Product Category	Unpackaged Bulk Product. This Safety Data Sheet must not be used for Packaged Consumer Product.
Details of the supplier of the safety data sheet	TSDC 5280 Vine Street St. Bernard, OH 45217 Phone: 513.551.3136
E-mail Address	pgsds.im@pg.com
Emergency Telephone	Transportation (24 HR) CHEMTREC - 1-800-424-9300 (U.S./ Canada) or 1-703-527-3887 Mexico toll free in country: 800-681-9531

2. HAZARD IDENTIFICATION

This product is classified under 29CFR 1910.1200(d) and the Canadian Hazardous Products Regulation as follows:.

Skin corrosion/irritation	Category 2
Eye Damage / Irritation	Category 1
Signal Word	DANGER
Hazard Statements	Causes skin irritation Causes serious eye damage
Hazard pictograms	

Precautionary Statements	Wear protective gloves and protective clothing Wear eye/face protection Wear protective gloves Wash hands thoroughly after handling
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Precautionary Statements - Response	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
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present and easy to do. Continue rinsing
 Immediately call a POISON CENTER or doctor/physician
 IF ON SKIN: Wash with plenty of water and soap
 If skin irritation or rash occurs: Get medical advice/attention
 Take off contaminated clothing and wash before re-use

Precautionary Statements - Storage None

Precautionary Statements - Disposal None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients are listed according to 29CFR 1910.1200 Appendix D and the Canadian Hazardous Products Regulation

Chemical Name	Synonyms	Trade Secret	CAS No	Weight-%
SLE1S	SLE1S	No	68585-34-2	10 - 15
Citric acid	1,2,3-Propanetricarboxylic acid, 2-hydroxy-	No	77-92-9	5 - 10
Siloxanes and Silicones, di-Me, 3-aminopropyl group-terminated	Siloxanes and Silicones, di-Me, 3-aminopropyl group-terminated	No	106214-84-0	1 - 5

Additional information Actual substance concentrations fall within the ranges stated. Maximum values do not necessarily represent the values present in the formula.

4. FIRST AID MEASURES

First aid measures for different exposure routes

Eye contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Immediately call a POISON CENTER or doctor/physician.

Skin contact IF ON SKIN: Wash with plenty of water and soap. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

Ingestion IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.

Inhalation IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if exposed or you feel unwell.

Most important symptoms/effects, acute and delayed Risk of serious damage to eyes. MAY CAUSE SKIN IRRITATION.

F. Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Water. Dry chemical. Alcohol resistant foam.

Unsuitable Extinguishing Media None.

Special hazard None known.

Special protective equipment for fire-fighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
Specific hazards arising from the chemical	None.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions	Wear protective gloves/protective clothing and eye/face protection.
Advice for emergency responders	Use personal protective equipment as required.
Environmental precautions	Should not be released into the environment

Methods and materials for containment and cleaning up

Methods for containment	Contain spill. The product should not be allowed to enter drains, water courses or the soil.
Methods for cleaning up	Clean up promptly by scoop or vacuum. Avoid dust formation.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling	Clean up spill immediately. Do not allow to enter into surface water or drains. Empty containers should be taken for local recycling, recovery or waste disposal. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Use personal protective equipment as required.
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Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place.
Incompatible products	None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines	No exposure limits noted for ingredient(s).
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No relevant exposure guidelines for other ingredients

Exposure controls

Engineering Measures	Manufacturing Sites: Use with local exhaust ventilation
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Personal Protective Equipment

Eye Protection	Manufacturing Sites: Wear eye/face protection Distribution, Workplace and Household Settings: Requires Eye Protection Wear safety glasses with side shields (or goggles)
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Hand Protection	Manufacturing Sites: Wear protective natural rubber, nitrile rubber, Neoprene™ or PVC gloves
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Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion

Distribution, Workplace and Household Settings:

Protective gloves

Skin and Body Protection

Manufacturing Sites:

Wear suitable protective clothing

Respiratory Protection

Manufacturing Sites:

Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust)

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Solid
Appearance	white
Odor	Perfume
Odor threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks</u>
pH	4.5	10% aqueous solution
Melting point / freezing point	No information available	
Boiling point / boiling range	No information available	
Flash point	No information available	
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limits in Air		
Upper flammability or explosive limits	No information available	
Lower flammability or explosive limits	No information available	
Vapor pressure	No information available	
Vapor density	No information available	
Relative density	No information available	
Water solubility	No information available	
Partition coefficient	No information available	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Viscosity	No information available	

10. STABILITY AND REACTIVITY

Reactivity	Reacts with (some) acids/bases: release of (highly) toxic gases/vapours.
Stability	Stable under normal conditions.
Hazardous polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.
Conditions to Avoid	None under normal processing.
Incompatible materials	None in particular.
Hazardous decomposition products	None under normal use conditions.

11. TOXICOLOGICAL INFORMATION

Product Information

Information on likely routes of exposure

Inhalation	No known effect.
Skin contact	Irritating to skin.
Ingestion	No known effect.
Eye contact	Risk of serious damage to eyes. Avoid contact with eyes.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Acute toxicity	No known effect.
Skin corrosion/irritation	Irritating to skin.
Serious eye damage/eye irritation	Risk of serious damage to eyes.
Skin sensitization	No known effect.
Respiratory sensitization	No known effect.
Germ cell mutagenicity	No known effect.
Neurological Effects	No known effect.
Reproductive toxicity	No known effect.
Developmental toxicity	No known effect.
Teratogenicity	No known effect.
STOT - single exposure	No known effect.
STOT - repeated exposure	No known effect.
Target Organ Effects	No known effect.
Aspiration hazard	No known effect.
Carcinogenicity	No known effect.

Component Information

Chemical Name	CAS No	Oral LD50	Dermal LD50	Inhalation LC50
Citric acid	77-92-9	5400 mg/kg bw (//OECD 401)	> 2000 mg/kg bw (OECD 402)	-

12. ECOLOGICAL INFORMATION

Ecotoxicity

Persistence and degradability	No information available.
Bioaccumulative potential	.
Mobility	No information available.
Other adverse effects	No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from Residues/Unused Products	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging	Disposal should be in accordance with applicable regional, national and local laws and regulations.
California Hazardous Waste Codes (non-household setting)	561

14. TRANSPORT INFORMATION

<u>DOT</u>	Not regulated
<u>IMDG</u>	Not regulated
<u>IATA</u>	Not regulated

15. REGULATORY INFORMATION

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following substance(s) which are either listed as hazardous air pollutants (HAPS) or VOC's per the Clean Air Act:

Chemical Name	CAS No	CAA (Clean Air Act) - 1990 Hazardous Air Pollutants
Methanol	67-56-1	X

Chemical Name	Volatile organic compounds
Methanol	Present
Methyl acetate	Present

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):.

Chemical Name	CAS No	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium hydroxide	1310-73-2	1000 lb	-	-	X

California Proposition 65

This product contains the following Proposition 65 chemicals:.

Chemical Name	CAS No	California Prop. 65
Methanol	67-56-1	Developmental

U.S. State Regulations (RTK)

Chemical Name	CAS No	New Jersey
Methanol	67-56-1	X

Chemical Name	CAS No	Pennsylvania
Methanol	67-56-1	X
Methyl acetate	79-20-9	X
Sodium hydroxide	1310-73-2	X

International Inventories

United States

For R&D Use Only

Canada

This product is in compliance with CEPA for import by P&G

Legend

United States Toxic Substances Control Act Section 8(b) Inventory (TSCA)

CEPA - Canadian Environmental Protection Act

16. OTHER INFORMATION**Issuing Date:** 10-Sep-2018**Revision date** 26-Jun-2019**Disclaimer.**

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

End of SDS