

# SAFETY DATA SHEET



Issuing Date: 01-Dec-2016

Revision Date: 01-Dec-2016

Version 1

This Safety Data Sheet (SDS) is not required under local legislation, implementing the UN Globally Harmonized System (GHS). This SDS is being provided as a courtesy to help assist in the safe handling and proper use of the product

## 1. IDENTIFICATION

<b>Product Name</b>	Crest Moisturizing Oral Rinse
<b>Product Identifier</b>	90996712_RET_NG
<b>Product Type:</b>	Finished Product - Consumer (Retail) Use Only
<b>Recommended Use</b>	Health Care.
<b>Details of the supplier of the safety data sheet</b>	The Procter & Gamble Company Mason Business Center 8700 Mason-Montgomery Road Mason, OH 45040-9462 +1 513 622-1000  Procter & Gamble Inc. P.O. Box 355, Station A Toronto, ON M5W 1C5 1-800-465-2945
<b>E-mail Address</b>	pgsds.im@pg.com
<b>Emergency Telephone</b>	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 is a personal care product that is safe for consumers and other users under normal and reasonably foreseeable use. This safety data sheet was developed based on regulations applicable to bulk substances in an industrial/occupational setting.

**For Consumer** - Ingredients in this product are not deemed to be hazardous when the product is used as intended.

**For Manufacturing** site personnel as follows:.

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

<b>Eye Damage / Irritation</b>	Category 2B
<b>Signal Word</b>	WARNING
<b>Hazard Statements</b>	Causes eye irritation
<b>Hazard pictograms</b>	
<b>Precautionary Statements</b>	Wash hands thoroughly after handling

**Precautionary Statements - Response** 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

**Precautionary Statements - Storage** None

**Precautionary Statements - Disposal** None

**Hazards not otherwise classified (HNOC)** 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 %
Glycerin	1,2,3-Propanetriol	No	56-81-5	15 - 20
Propylene glycol	Propylene Glycol	No	57-55-6	1 - 5

**Active pharmaceutical ingredient**

Chemical Name	Synonyms	CAS-No	Weight %
Sodium fluoride		7681-49-4	0.021

### 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.

**Skin contact** None under normal use.

**Ingestion** Call a physician or poison control center immediately if overdosed.

**Inhalation** None under normal use.

**Most important symptoms/effects, acute and delayed** May cause eye irritation.

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

**Notes to Physician** Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**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** None under normal use conditions.

**Advice for emergency responders** Use personal protective equipment as required.

**Environmental precautions**

**Household:**  
Product is safe to dispose of in household garbage or down the drain.

**Non-household:**  
Do not discharge product into natural waters without pre-treatment or adequate dilution

### Methods and materials for containment and cleaning up

**Methods for containment** No information available.

**Methods for cleaning up** No information available.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice.

### 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

Chemical Name	CAS-No	ACGIH TLV	OSHA PEL	Mexico PEL
Glycerin	56-81-5		TWA: 15 mg/m <sup>3</sup> mist, total particulate TWA: 5 mg/m <sup>3</sup> mist, respirable fraction (vacated) TWA: 10 mg/m <sup>3</sup> mist, total particulate (vacated) TWA: 5 mg/m <sup>3</sup> mist, respirable fraction	Mexico: TWA 10 mg/m <sup>3</sup>

Chemical Name	CAS-No	Alberta	Quebec	Ontario TWAEV	British Columbia
Glycerin	56-81-5	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>		TWA: 10 mg/m <sup>3</sup> TWA: 3 mg/m <sup>3</sup>
Propylene glycol	57-55-6			TWA: 10 mg/m <sup>3</sup> TWA: 50 ppm TWA: 155 mg/m <sup>3</sup>	

No relevant exposure guidelines for other ingredients

### Exposure controls

This safety data sheet was developed based on regulations applicable to bulk substances in an industrial/occupational setting. For **Consumers and Retail** personnel - follow product label directions and warnings when using and/or handling this product.

For **Distribution and Manufacturing** sites - follow the procedure as listed according to your Workplace Safety protocols.

**Engineering Measures** No information available

### Personal Protective Equipment

**Eye Protection** **Manufacturing Sites:**  
Wear safety glasses with side shields (or goggles)  
**Distribution, Workplace and Household Settings:**  
No special protective equipment required

**Hand Protection** No special protective equipment required

**Skin and Body Protection** No special protective equipment required

**Respiratory Protection** No special protective equipment required

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State @20°C** Liquid  
**Appearance** Clear colorless  
**Odor** Mint-like  
**Odor threshold** No information available

<u>Property</u>	<u>Values</u>	<u>Note</u>
pH value	3.0 - 4.0	
Melting/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 limit	No information available	
Lower Flammability Limit	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: n-octanol/water	No information available	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Viscosity of Product	No information available	
VOC Content (%)	Products comply with US state and federal regulations for VOC content in consumer products.	

## 10. STABILITY AND REACTIVITY

**Reactivity** None under normal use conditions.

**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.

**Materials to avoid** None in particular.

**Hazardous Decomposition Products** None under normal use conditions.

## 11. TOXICOLOGICAL INFORMATION

**Product Information****Information on likely routes of exposure**

<b>Inhalation</b>	No known effect.
<b>Skin contact</b>	No known effect.
<b>Ingestion</b>	No known effect.
<b>Eye contact</b>	Avoid contact with eyes. Irritating to eyes.

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

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

**Component Information**

Chemical Name	CAS-No	Oral LD50	Dermal LD50	Inhalation LC50
Glycerin	56-81-5	LD50: 23000 mg/kg, bw. ca. OECD GHS. Species: Mouse	LD50: 45 mL/kg, bw. OECD GHS. Species: Guinea pig	L(Ct)50: 4655, 7 hours, mg/min/L; OECD GHS. Species: Rat

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

The product is not expected to be hazardous to the environment. The product is not expected to be hazardous to waste water treatment processes.

<b>Persistence and degradability</b>	No information available.
<b>Bioaccumulative potential</b>	No information available.
<b>Mobility</b>	No information available.
<b>Other adverse effects</b>	No information available.

**13. DISPOSAL CONSIDERATIONS****Waste treatment**

<b>Waste from Residues / Unused Products</b>	<b>Non-household:</b> . Product is safe to dispose of in household garbage or down the drain. The product is not expected to be hazardous to waste water treatment processes.
<b>Contaminated packaging</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations.
<b>California Hazardous Waste Codes (non-household setting)</b>	331

**14. TRANSPORT INFORMATION**

**DOT** Not regulated**IMDG** Not regulated**IATA** 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, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):.

Chemical Name	CAS-No	Hazardous Substances RQs	Extremely Hazardous Substances RQs	CERCLA/SARA 302 TPQ
Phosphoric acid	7664-38-2	5000 lb	-	
Sodium fluoride	7681-49-4	1000 lb	-	

#### **Food and Drug Administration (FDA)**

The product described in this Safety Data Sheet is regulated under the Federal Food, Drug, and Cosmetics Act and is safe to use as per directions on container, box or accompanying literature (where applicable)

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

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

#### **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
Phosphoric acid	7664-38-2	5000 lb	-	-	X
Sodium fluoride	7681-49-4	1000 lb	-	-	X

#### **California Proposition 65**

This product is not subject to warning labeling under California Proposition 65.

#### **U.S. State Regulations (RTK)**

Chemical Name	CAS-No	New Jersey
Glycerin	56-81-5	X
Propylene glycol	57-55-6	X

Chemical Name	CAS-No	Massachusetts
Glycerin	56-81-5	X

Chemical Name	CAS-No	Pennsylvania
Glycerin	56-81-5	X
Propylene glycol	57-55-6	X
Phosphoric acid	7664-38-2	X
Sodium fluoride	7681-49-4	X

**International Inventories****United States**

Product is a personal care product and regulated under FDA.

**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:** 01-Dec-2016

**Revision Date:** 01-Dec-2016

**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**

# SAFETY DATA SHEET



Issuing Date 18-Apr-2019

Revision date 18-Apr-2019

Version 1

According to Regulation (EC) No. 1907/2006 (REACH) and its latest amendment

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifier

**Product Identifier** 62794059\_BULK\_CLP\_EUR  
**Product Name** COAT 52 FLOSS COATING SUPERFLOSS  
**Synonyms** 91933820, 91933832

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

**Recommended use** Intermediate  
**Product Category** Unpackaged Bulk Product. This Safety Data Sheet must not be used for Packaged Consumer Product.

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

P&G Manufacturing Ireland Ltd.  
Green Road, Newbridge, Co Kildare, Ireland  
+353 45 437 200

For further information, please contact: pgsds.im@pg.com

### 1.4 Emergency Telephone Number

**Emergency Telephone** EUROPE: CONTACT CHEMTREC (24 hr) +(41) 22 58 004 8213 (day phone); BELGIUM: Centre Antipoison/ Antigifcentrum: 070/245.245 BENELUX FR: Centre Antipoison 070/245.245, Chemtrec: +(32)-28083237; BULGARIA: +359 2 9154 409; CZECH REPUBLIC: Chemtrec +(420)-228880039; DENMARK: Alarmcentralen, telefon 112 (Giftlinjen: 82 12 12 12); ESTONIA: 16662; FINLAND: Myrkytystietokeskus, Puhelin 09-471 977; FRANCE: Chemtrec +(33)-975181407; N° d'appel d'urgence Orfila : 01 45 42 59 59; GERMANY: Chemtrec 0800-181-7059; +49 (0) 6131-232466 (24h); GREECE: Τηλ. Κέντρου Δηλητηριάσεων: 210-7793777; HUNGARY: Chemtrec +(36)-18088425; 06 80 20 11 99; IRELAND: 1800 509 497; ITALY: Chemtrec 800-789-767; Numero di emergenza: 06 50971; LATVIA: Ārkārtas situācijās zvanīt uz Saindēšanās informācijas centru - tel. 67042473; LITHUANIA: (8 5) 236 20 52; NETHERLANDS: Chemtrec +(31)-858880596; Nationaal Vergiftigingen Informatie Centrum: Tel. 030 - 2748888 (Uitsluitend voor een behandelde arts bereikbaar in geval van accidentele vergiftigingen); NORWAY: Nødnnummer: 113 (Giftinformasjonssentralen, telefon 22 59 13 00) POLAND: Chemtrec +(48)-223988029; tel. alarmowy 112 lub 801 25 88 25 (poniedziałek – piątek, godz. 8:30 -17); PORTUGAL: Tel. emergência CIAV: 808 250 143; RUSSIA Chemtrec 8-800-100-6346; ROMANIA: 021 3183606 SLOVAKIA: Toxikologické informačné centrum +421 2 5477 4166; SPAIN: Chemtrec 900-868538; 91. 722. 21.00; SWEDEN: Chemtrec +(46)-852503403; Giftinformationscentralen, telefon 112.; SWITZERLAND: 145 (24h); TURKEY: 0 800 261 63 65 – 0 216 463 80 00 (Mesai günleri saat 09.00 ile 17.00)



arasında ulaşabilirsiniz.) Ulusal Zehir Merkezi: 114; UK: Chemtrec +(44)-870-8200418;  
0800 328 8304

## 2. HAZARD IDENTIFICATION

### 2.1 Classification of the substance or mixture

#### GHS / CLP - Regulation (EC) No 1272/2008

**Corrosive to metals**                      **Category 1** - (H290)

Full text of H-Statements referred to under section 16

### 2.2 Label elements

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

#### Hazard pictograms



**Signal Word**                                      WARNING

**Hazard statements**                              H290 - May be corrosive to metals

**Precautionary Statements**                      P234 - Keep only in original packaging  
P390 - Absorb spillage to prevent material damage  
P234 - Keep only in original container  
P406 - Store in corrosion resistant container with a resistant inner liner

### 2.3 Other hazards

**Other hazards**                                      None.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Not applicable.

### 3.2 Mixtures

Chemical name	CAS No.	EC-No	REACH Registration No	Weight-%	GHS / CLP Classification 1272/2008 [CLP]	M-Factor (acute)	M-Factor (chronic)
2-Propenoic acid, 2-hydroxyethyl ester, polymer with 1,1'-methylenebis[4-isocyanatocyclohexane] and 2-oxepanone	52404-33-8			> 50	NC		
Benzophenone	119-61-9	204-337-6		1 - 3	STOT RE 2(H373) Aquatic Chronic 2(H411)		
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	278-355-8		0.1 - 1	Repr. 2(H361f)		

ne oxide							
Triphenylstibine	603-36-1	210-037-6		<=0.1	NC		

Full text of H-Statements referred to under section 16

## 4. FIRST AID MEASURES

### 4.1 Description of first-aid measures

<b>Skin contact</b>	IF ON SKIN: Wash with plenty of water and soap. If skin irritation or rash occurs: Get medical advice/attention.
<b>Eye contact</b>	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.
<b>Inhalation</b>	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. IF exposed or concerned: Get medical advice/attention.

### 4.2 Most important symptoms and effects, both acute and delayed

**Main Symptoms** No information available.

### 4.3 Indication of any immediate medical attention and special treatment needed

**Notes to Physician** Refer to section 4.1

## 5. FIRE-FIGHTING MEASURES

### 5.1 Extinguishing media

**Suitable extinguishing media** Dry chemical. Alcohol resistant foam. Carbon dioxide (CO<sub>2</sub>).

**Extinguishing Media Which Must Not Be Used For Safety Reasons** No information available.

### 5.2 Special hazards arising from the substance or mixture

**Special hazard** Containers may explode when heated. Keep containers and surroundings cool with water spray.

### 5.3 Advice for firefighters

**Special protective equipment for fire-fighters** Dike fire-control water for later disposal. Fight fire with normal precautions from a reasonable distance.

**Protective equipment and precautions for firefighters** Do not allow run-off from fire-fighting to enter drains or water courses.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

**Personal precautions** Wear personal protective clothing (see section 8).

**Advice for emergency responders** In the case of vapor formation use a respirator with an approved filter.

**6.2 Environmental precautions**

**Environmental precautions** Keep out of drains, sewers, ditches and waterways.

**6.3 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** Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

**6.4 Reference to other sections**

**Other information** Refer to protective measures listed in Sections 7 and 8.

## 7. HANDLING AND STORAGE

**7.1 Precautions for safe handling**

**Advice on safe handling** **Manufacturing Sites:** . 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.

**7.2 Conditions for safe storage, including any incompatibilities**

**Technical measures/Storage conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Storage Conditions** Keep only in the original container. Store in corrosive resistant container. Storage in aluminum, unlined carbon steel or 304 stainless steel is not recommended. Do not store in copper, zinc, aluminum, copper alloy, zinc alloy or aluminum alloy containers.

**Incompatible materials** Metals. May be corrosive to metals.

**Incompatible products** Metals May be corrosive to metals

**Requirements for storage rooms and containers** Not applicable

**7.3 Specific end uses**

Not applicable

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1 Control parameters**

**Exposure Guidelines** No information available.

**Recommended monitoring procedures** Not available

**Derived No Effect Level (DNEL)****Workers**

Chemical name	Worker - dermal, long-term - systemic	Worker - inhalative, long-term - systemic	Worker - dermal, long-term - local	Worker - inhalative, long-term - local
Benzophenone	0.1 mg/kg bw/day	0.7 mg/m <sup>3</sup>		
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	1 mg/kg bw/day	3.5 mg/m <sup>3</sup>		

**Consumers**

Chemical name	Consumer - oral, long-term - systemic	Consumer - inhalative, long-term - systemic	Consumer - dermal, long-term - systemic
Benzophenone	0.05 mg/kg bw/day	0.17 mg/m <sup>3</sup>	0.1 mg/kg bw/day

**Predicted No Effect Concentration (PNEC)**

Chemical name	Fresh Water	Marine water	Intermittent release
Benzophenone	0.02 mg/L	0.002 mg/L	0.035 mg/L
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	0.00353 mg/L	0.000353 mg/L	0.0353 mg/L

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment plant	Soil	air	Oral
Benzophenone	1.1 mg/kg sediment dw	0.11 mg/kg sediment dw	3.16 mg/L	0.31 mg/kg soil dw		
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	0.29 mg/kg sediment dw	0.029 mg/kg sediment dw		0.0557 mg/kg soil dw		

**8.2 Exposure controls**

**Appropriate engineering controls** No information available

**Personal protective equipment****Hand Protection**

**Manufacturing Sites:** . Wear protective natural rubber, nitrile rubber, Neoprene™ or PVC gloves. 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.

**Eye Protection**

**Manufacturing Sites:** . Tight sealing safety goggles. If splashes are likely to occur, wear.. Wear suitable face shield.

**Skin and Body Protection**

**Manufacturing Sites:** . Wear protective gloves and protective clothing.

**Respiratory Protection**

**Manufacturing Sites:** . In case of inadequate ventilation wear respiratory protection.

**Hygiene Measures** No information available

**Environmental exposure controls** See section 6 for more information.

**9. PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

<b>Physical state</b>	Liquid
<b>Appearance</b>	Clear, colorless
<b>Odor</b>	None
<b>Odor threshold</b>	Not available. This product doesn't have substances deriving inhalation health risk.

<u>Property</u>	<u>Values</u>	<u>Remarks</u>
<b>pH</b>	6.5	
<b>Melting point / freezing point</b>	Not available	Not available. This property is not relevant for the safety and classification of this product
<b>Boiling point / boiling range</b>	Not available	
<b>Flash point</b>	Not available	
<b>Evaporation rate</b>	Not available	Not available. This property is not relevant for the safety and classification of this product
<b>Upper flammability or explosive</b>	Not available	

**limits**

**Lower flammability or explosive limits** Not available

**Flammability (solid, gas)** Not available

**Vapor pressure** Not available

**Vapor density** Not available

**Relative density** Not available

**Solubility** Not available

**Partition Coefficient (n-octanol/water)** Not available

**Autoignition temperature** Not available

**Decomposition temperature** Not available

**Viscosity** Not available

**Explosive properties** Not applicable

**Oxidizing properties** Not available

Not available. This property is not relevant for the safety and classification of this product

Not available. This property is not relevant for the safety and classification of this product

Not applicable. This property is not relevant for liquid product forms

Not available. This property is not relevant for the safety and classification of this product

Not available. This property is not relevant for the safety and classification of this product

Not available. This property is not relevant for the safety and classification of this product

Not available. This property is not relevant for the safety and classification of this product

Not available. This property is not relevant for the safety and classification of this product

Not available. This property is not relevant for the safety and classification of this product

Not applicable. This product does not contain any substance which possesses dust explosible properties.

Not applicable. This product is not classified as oxidizing as it does not contain any substances which possesses oxidizing properties CLP (Art 14 (2) )

**9.2 Other information****10. STABILITY AND REACTIVITY****10.1 Reactivity**

**Reactivity** None under normal use conditions.

**10.2 Chemical stability**

**Stability** Stable under normal conditions.

**10.3 Possibility of hazardous reactions**

**Hazardous polymerization** None under normal processing.

**10.4 Conditions to Avoid**

**Conditions to Avoid** No information available.

**10.5 Materials to avoid**

**Incompatible materials** Metals. May be corrosive to metals.

**10.6 Hazardous Decomposition Products**

**Hazardous decomposition products** None under normal use conditions.

**11. TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects****Product Information**

<b>Principle routes of exposure</b>	Eye contact, Skin contact, Inhalation, Ingestion.
<b>Acute toxicity</b>	Not Classified. Based on the available data, the classification criteria are not met.
<b>Skin corrosion/irritation</b>	Not Classified. Based on the available data, the classification criteria are not met.
<b>Serious eye damage/eye irritation</b>	Not Classified. Based on the available data, the classification criteria are not met.
<b>Skin sensitization</b>	Not Classified. Based on the available data, the classification criteria are not met.
<b>Respiratory sensitization</b>	Not Classified. Based on the available data, the classification criteria are not met.
<b>Germ cell mutagenicity</b>	Not Classified. Based on the available data, the classification criteria are not met.
<b>Carcinogenicity</b>	Not Classified. Based on the available data, the classification criteria are not met.
<b>Reproductive toxicity</b>	Not Classified. Based on the available data, the classification criteria are not met.
<b>STOT - single exposure</b>	Not Classified. Based on the available data, the classification criteria are not met.
<b>STOT - repeated exposure</b>	Not Classified. Based on the available data, the classification criteria are not met.
<b>Aspiration hazard</b>	Not Classified. Based on the available data, the classification criteria are not met.

Chemical name	CAS No.	Oral LD50	Dermal LD50	Inhalation LC50
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	> 5000 mg/kg bw (OECD 401; standard acute method; rat)	> 2000 mg/kg bw (OECD 402, EU Method B.3, EPA OPPTS 870.1200 and Japan MAFF Testing Guideline of 12 Nosan No. 8147; standard acute method; rat)	-

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

#### Ecotoxicity effects

Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants.

Chemical name	CAS No.	Fish	Algae/aquatic plants	Crustacea	Toxicity to microorganisms	Toxicity to other organisms
Benzophenone	119-61-9	14.2 mg/L (OECD 203; Pimephales promelas)	3.5 mg/L (OECD 201; Pseudokirchnerella subcapitata; static)	6.784 mg/L (OECD 202; Daphnia magna; semi-static)	787 mg/L (OECD 209; activated sludge of a predominantly domestic sewage; static)	-
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	6.53 mg/L (Guideline: JIS K 0102-1986, 71; Oryzias latipes; semi-static; freshwater; 48 h)	> 2.01 mg/L (OECD 201; Pseudokirchnerella subcapitata; static; freshwater; growth rate)	3.53 mg/L (OECD 202; Daphnia magna; static; freshwater)	> 1000 mg/L (OECD 209; activated sludge, domestic; static; freshwater; respiration rate)	-

\*If different it will be explained in the table

Chemical name	CAS No.	Toxicity to algae (NOEC or ECx)*	Toxicity to fish (NOEC or ECx)*	Toxicity to daphnia and other aquatic invertebrates (NOEC or ECx)*	Toxicity to Microorganisms (NOEC or ECx)*	Toxicity to other organisms
Benzophenone	119-61-9	1 mg/L (OECD 201; Pseudokirchnerella subcapitata; static)	2.1 mg/L (guideline: EPA/600/4-89-001; Pimephales promelas; flow-through; 7 d; based on active ingredient)	0.2 mg/L (OECD 211; Daphnia magna)	31.6 mg/L (OECD 209; activated sludge of a predominantly domestic sewage; static)	
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8				> 1000 mg/L (OECD 209; activated sludge, domestic; static;)	

					freshwater; respiration rate)	
--	--	--	--	--	----------------------------------	--

\*If different it will be explained in the table

## 12.2 Persistence and degradability

No information available.

Chemical name	CAS No.	Ready Biodegradation Test (OECD 301)	Abiotic Degradation Hydrolysis	Abiotic Degradation Photolysis	Biodegradation Other Tests
Benzophenone	119-61-9	0% (OECD 301 C; activated sludge; 14 d)			
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	0 % (OECD 301 F; aerobic; activated sludge, domestic, non-adapted; O2 consumption)			

## 12.3 Bioaccumulative potential

No information available.

Chemical name	CAS No.	Octanol/water partition coefficient	Bioconcentration factor (BCF)
Benzophenone	119-61-9	3.1471 (Estimated by calculation. KOWWIN v.)	12 (Hazardous Substances Databank; Oryzias latipes )
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	3.1	72

## 12.4 Mobility in soil

No information available.

Chemical name	CAS No.	log Koc
Benzophenone	119-61-9	517 (Hazardous Substances Data Bank)
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	784.8 (Calculated value (PCKOCWIN v1.66); adsorption; soil)

## 12.5 Results of PBT and vPvB assessment

### PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

## 12.6 Other adverse effects

No information available.

# 13. DISPOSAL CONSIDERATIONS

## 13.1 Waste treatment methods

### Waste from Residues/Unused Products

Disposal should be in accordance with applicable regional, national and local laws and regulations. The waste codes/waste designations below are in accordance with EWC.

### Disposal Recommendations

Waste must be delivered to an approved waste disposal company. Waste is to be kept separate from other types of waste until its disposal. Do not throw waste product into the sewer. For handling waste, see measures described in section 7. Empty, uncleaned packaging need the same disposal considerations as filled packaging. Empty, uncleaned packaging need the same disposal considerations as filled packaging.

### Contaminated packaging

15 01 10.

### EWC Waste Disposal No

07 06 01

**13.2 Additional information**

Additional information No information available

**14. TRANSPORT INFORMATION**

**IMDG**

14.1 UN number UN1760  
 14.2 UN proper shipping name Description  
 CORROSIVE LIQUID, N.O.S.  
 UN1760, CORROSIVE LIQUID, N.O.S.(2-Propenoic acid, 2-hydroxyethyl ester, polymer with 1,1'-methylenebis[4-isocyanatocyclohexane] and 2-oxepanone, Triphenylstibine), 8, III  
 14.3 Transport hazard class(es) 8  
 14.4 Packing group III  
 14.5 Marine pollutant Not regulated  
 EmS-No. F-A, S-B  
 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code No information available

**IATA**

14.1 UN number UN1760  
 14.2 UN proper shipping name Description  
 CORROSIVE LIQUID, N.O.S.  
 UN1760, CORROSIVE LIQUID, N.O.S.(2-Propenoic acid, 2-hydroxyethyl ester, polymer with 1,1'-methylenebis[4-isocyanatocyclohexane] and 2-oxepanone, Triphenylstibine), 8, III  
 14.3 Transport hazard class(es) 8  
 14.4 Packing group III  
 14.5 Marine pollutant Not regulated

**ADR**

14.1 UN number UN1760  
 14.2 UN proper shipping name Description  
 CORROSIVE LIQUID, N.O.S.  
 UN1760, CORROSIVE LIQUID, N.O.S.(2-Propenoic acid, 2-hydroxyethyl ester, polymer with 1,1'-methylenebis[4-isocyanatocyclohexane] and 2-oxepanone, Triphenylstibine), 8, III  
 14.3 Transport hazard class(es) 8  
 14.4 Packing group III  
 14.5 Marine pollutant Not regulated  
 Classification code C9  
 Labels 8

**RID**

14.1 UN number UN1760  
 14.2 UN proper shipping name Description  
 CORROSIVE LIQUID, N.O.S.  
 UN1760, CORROSIVE LIQUID, N.O.S.(2-Propenoic acid, 2-hydroxyethyl ester, polymer with 1,1'-methylenebis[4-isocyanatocyclohexane] and 2-oxepanone, Triphenylstibine), 8, III  
 14.3 Transport hazard class(es) 8  
 14.4 Packing group III  
 14.5 Marine pollutant Not regulated  
 Classification code C9  
 Labels 8

**ADN**

14.1 UN Number UN1760  
 14.2 UN proper shipping name Description  
 CORROSIVE LIQUID, N.O.S.  
 UN1760, CORROSIVE LIQUID, N.O.S.(2-Propenoic acid, 2-hydroxyethyl ester, polymer with 1,1'-methylenebis[4-isocyanatocyclohexane] and 2-oxepanone, Triphenylstibine), 8, III  
 14.3 Transport hazard class(es) 8  
 14.4 Packing group III  
 14.5 Marine pollutant Not regulated



Classification code	C9
Hazard label(s)	8
Limited quantity (LQ)	5 L
Equipment Requirements	PP, EP

## 15. REGULATORY INFORMATION

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

WGK - Classification (VwVwS) WGK 1

### International Inventories

## 16. OTHER INFORMATION

### 16.1 Indication of changes

Issuing Date	18-Apr-2019
Revision date	18-Apr-2019
Revision Note	Not applicable

### 16.2 Abbreviations and acronyms

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
CAS-No: Chemical Abstracts Service number  
CLP - The Classification, Labeling and Packaging of Substances and Mixtures (CLP) Regulation (EC 1272/2008)  
EINECS: European Inventory of Existing Commercial Chemical Substances  
EC-Number: EINECS and ELINCS Number (see also EINECS and ELINCS)  
EC50: Calculated concentration causing a 50% reduction in cellular reproduction  
GHS- Globally Harmonized System of Classification and Labeling of Chemicals (GHS)  
IATA: International Air Transport Association  
LC50: Lethal Concentration to 50% of a test population  
LD50: Lethal Dose to 50% of a test population (Median Lethal Dose)  
PVC- Polyvinylchloride  
REACH- Registration, Evaluation and Authorization of Chemicals  
STEL: Short term exposure limit  
STP- Sewage treatment plant

### 16.3 Key literature references and sources for data

No information available

### 16.4 Classification

#### **Physical Hazards**

**Corrosive to metals** - On basis of test data

### 16.5 Full text of H-Statements referred to under sections 2 and 3

#### **Full text of H-Statements referred to under sections 2 and 3**

H361f - Suspected of damaging fertility

H373 - May cause damage to organs through prolonged or repeated exposure

H411 - Toxic to aquatic life with long lasting effects

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

### 16.6 Training Advice

No information available

### **16.7 Further information**

#### **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**

# SAFETY DATA SHEET



Issuing Date: 11-Jul-2017

Revision Date: 11-Jul-2017

Version 1

## 1. IDENTIFICATION

**Product Name** Crest Gum Detoxify Deep Clean

**Product Identifier** 90965247\_PROF\_NG

**Product Type:** Finished Product - Consumer (Retail) and Professional Use

**Recommended Use** Health Care.

**Details of the supplier of the safety data sheet** The Procter & Gamble Company  
Mason Business Center  
8700 Mason-Montgomery Road  
Mason, OH 45040-9462  
+1 513 622-1000

Procter & Gamble Inc.  
P.O. Box 355, Station A  
Toronto, ON M5W 1C5  
1-800-465-2945

**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:.

**Eye Damage / Irritation** Category 2B

**Signal Word** WARNING

**Hazard Statements** Causes eye irritation

**Hazard pictograms** None

**Precautionary Statements** Wash hands thoroughly after handling

**Precautionary Statements - Response** 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

**Precautionary Statements - Storage** None

**Precautionary Statements - Disposal** None

Hazards not otherwise classified (HNOC) 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 %
Silica gel, pptd., cryst.-free	Silica gel, pptd., cryst.-free	No	112926-00-8	15 - 20
Mentha Viridis Leaf Oil	Spearmint Oil	No	8008-79-5	0.1 - 1.0
Mentha Arvensis Leaf Oil	Mentha Arvensis Oil	No	68917-18-0	0.1 - 1.0
Carvone	L-Carvone	No	6485-40-1	0.1 - 1.0

### 4. FIRST AID MEASURES

#### First aid measures for different exposure routes

<b>Eye contact</b>	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.
<b>Skin contact</b>	None under normal use.
<b>Ingestion</b>	Not an expected route of exposure. If swallowed: Clean mouth with water and afterwards drink plenty of water.
<b>Inhalation</b>	None under normal use.
<b>Most important symptoms/effects, acute and delayed</b>	May cause eye irritation.

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

**Notes to Physician** Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

<b>Suitable extinguishing media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Unsuitable Extinguishing Media</b>	None.
<b>Special hazard</b>	None known.
<b>Special protective equipment for fire-fighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
<b>Specific hazards arising from the chemical</b>	None.

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

**Personal precautions** None under normal use conditions.

**Advice for emergency responders** Use personal protective equipment as required.

**Methods and materials for containment and cleaning up**

**Methods for containment** No information available.

**Methods for cleaning up** No information available.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice.

**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** .

Chemical Name	CAS-No	ACGIH TLV	OSHA PEL	Mexico PEL
Silica gel, pptd., cryst.-free	112926-00-8		(vacated) TWA: 6 mg/m <sup>3</sup> TWA: 20 mppcf : (80)/(%) SiO <sub>2</sub> mg/m <sup>3</sup> TWA	Mexico: TWA 10 mg/m <sup>3</sup>

Chemical Name	CAS-No	Alberta	Quebec	Ontario TWAEV	British Columbia
Silica gel, pptd., cryst.-free	112926-00-8		TWA: 6 mg/m <sup>3</sup>		TWA: 4 mg/m <sup>3</sup> TWA: 1.5 mg/m <sup>3</sup>

No relevant exposure guidelines for other ingredients

**Exposure controls**

**Engineering Measures** No information available

**Personal Protective Equipment**

**Eye Protection** **Manufacturing Sites:**  
Wear safety glasses with side shields (or goggles)  
**Distribution, Workplace and Household Settings:**  
No special protective equipment required

**Hand Protection** No special protective equipment required

**Skin and Body Protection** No special protective equipment required

**Respiratory Protection** No special protective equipment required

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State @20°C** Solid  
**Appearance** paste white Off-white  
**Odor** Mint-like  
**Odor threshold** No information available

<u>Property</u>	<u>Values</u>	<u>Note</u>
pH value	6 - 7	10% aqueous solution
Melting/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 limit	No information available	
Lower Flammability Limit	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: n-octanol/water	No information available	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Viscosity of Product	No information available	
VOC Content (%)	Products comply with US state and federal regulations for VOC content in consumer products.	

## 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	None under normal use conditions.
<b>Stability</b>	Stable under normal conditions.
<b>Hazardous polymerization</b>	Hazardous polymerization does not occur.
<b>Hazardous Reactions</b>	None under normal processing.
<b>Conditions to Avoid</b>	None under normal processing.
<b>Incompatible Materials</b>	None in particular.
<b>Hazardous Decomposition Products</b>	None under normal use conditions.

## 11. TOXICOLOGICAL INFORMATION

### Product Information

#### Information on likely routes of exposure

<b>Inhalation</b>	No known effect.
<b>Skin contact</b>	No known effect.
<b>Ingestion</b>	No known effect.
<b>Eye contact</b>	Avoid contact with eyes. Irritating to eyes.

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

<b>Acute toxicity</b>	No known effect.
<b>Skin corrosion/irritation</b>	No known effect.
<b>Serious eye damage/eye irritation</b>	Irritating to eyes.
<b>Skin sensitization</b>	No known effect.
<b>Respiratory sensitization</b>	No known effect.
<b>Germ cell mutagenicity</b>	No known effect.
<b>Neurological Effects</b>	No known effect.
<b>Reproductive toxicity</b>	No known effect.
<b>Developmental toxicity</b>	No known effect.
<b>Teratogenicity</b>	No known effect.
<b>STOT - single exposure</b>	No known effect.
<b>STOT - repeated exposure</b>	No known effect.
<b>Target Organ Effects</b>	No known effect.

**Aspiration hazard** No known effect.  
**Carcinogenicity** No known effect.

**Component Information**

Chemical Name	CAS-No	Oral LD50	Dermal LD50	Inhalation LC50
Mentha Arvensis Leaf Oil	68917-18-0	1240 mg/kg (rat)	-	-

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

The product is not expected to be hazardous to the environment.

**Persistence and degradability** No information available.

**Bioaccumulative potential** No information available.

**Mobility** No information available.

**Other adverse effects** No information available.

**13. DISPOSAL CONSIDERATIONS****Waste treatment**

**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.

**14. TRANSPORT INFORMATION**

**DOT** Not regulated

**IMDG** Not regulated

**IATA** 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, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):.

Chemical Name	CAS-No	Hazardous Substances RQs	Extremely Hazardous Substances RQs	CERCLA/SARA 302 TPQ
Sodium hydroxide	1310-73-2	1000 lb	-	

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

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

**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 is not subject to warning labeling under California Proposition 65.

**U.S. State Regulations (RTK)**

Chemical Name	CAS-No	New Jersey
Silica gel, pptd., cryst.-free	112926-00-8	X

Chemical Name	CAS-No	Massachusetts
Silica gel, pptd., cryst.-free	112926-00-8	X
Carrageenan	9000-07-1	X

Chemical Name	CAS-No	Pennsylvania
Silica gel, pptd., cryst.-free	112926-00-8	X
Carrageenan	9000-07-1	X
Titanium oxide (TiO <sub>2</sub> )	13463-67-7	X
Sodium hydroxide	1310-73-2	X

**International Inventories****United States**

All intentionally-added components of this product(s) are listed on the US TSCA Inventory.

**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

<b>16. OTHER INFORMATION</b>
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**Issuing Date:** 11-Jul-2017

**Revision Date:** 11-Jul-2017

**Disclaimer**

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**End of SDS**



## Safety data sheet for product

### 1. PRODUCT AND COMPANY IDENTIFICATION

- Product name: Lithium ion rechargeable battery cell
- Product code: None  
(All models Sanyo manufactured and whose capacity is less than or equal to 5.4Ah, including the cell branded as Panasonic, excluding the cell whose shape is prismatic and two or more short / middle / long side excess 12mm/85mm/110mm.)
- Company name: Sanyo Electric Co., Ltd., Panasonic group
- Address: 222-1 , Kaminaizen, Sumoto City, Hyogo, Japan
- Telephone number: +81-799-24-4111
- Fax number: +81-799-23-2879
- Emergency telephone number: [Daytime of business day] +81-799-23-3931  
[Night and holiday] +81-799-24-4131

### 2. HAZARDS IDENTIFICATION

For the battery cell, chemical materials are stored in a hermetically sealed metal or metal laminated plastic case, designed to withstand temperatures and pressures encountered during normal use. As a result, during normal use, there is no physical danger of ignition or explosion and chemical danger of hazardous materials' leakage.

However, if exposed to a fire, added mechanical shocks, decomposed, added electric stress by miss-use, the gas release vent will be operated. The battery cell case will be breached at the extreme, hazardous materials may be released.

Moreover, if heated strongly by the surrounding fire, acrid gas may be emitted.

- GHS classification: Not available  
(This product is outside the scope of GHS system since it's considered as an "article".)
- Most important hazard and effects  
Human health effects:  
Inhalation: The steam of the electrolyte has an anesthesia action and stimulates a respiratory tract.  
Skin contact: The steam of the electrolyte stimulates a skin. The electrolyte skin contact causes a sore and stimulation on the skin.  
Eye contact: The steam of the electrolyte stimulates eyes. The electrolyte eye contact causes a sore and stimulation on the eye. Especially, substance that causes a strong inflammation of the eyes is contained.  
Environmental effects: Since a battery cell remains in the environment, do not throw out it into the environment.
- Specific hazards:  
If the electrolyte contacts with water, it will generate detrimental hydrogen fluoride.  
Since the leaked electrolyte is inflammable liquid, do not bring close to fire.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

- Substance or preparation: Preparation
- Information about the chemical nature of product: \*1

Portion	Material name	Concentration range (wt %)
Positive electrode	Lithium transition metal oxidate ( $\text{Li}[\text{M}]_m[\text{O}]_n$ *2)	20~60
Positive electrode's base	Aluminum	1~10
Negative electrode	Carbon	10~30
Negative electrode's base	Copper	1~15
Electrolyte	Organic electrolyte principally involves ester carbonate	5~25
Outer case	Aluminum, iron, aluminum laminated plastic	1~30

\*1 Not every product includes all of these materials.

\*2 The letter M means transition metal and candidates of M are Co, Mn, Ni and Al. One compound includes one or more of these metals and one product includes one or more of the compounds. The letter m and n means the number of atoms.

**4. FIRST-AID MEASURES****Spilled internal cell materials**

- Inhalation:  
Make the victim blow his/her nose, gargle. Seek medical attention if necessary.
- Skin contact:  
Remove contaminated clothes and shoes immediately. Wash extraneous matter or contact region with soap and plenty of water immediately.
- Eye contact:  
Do not rub one's eyes. Immediately flush eyes with water continuously for at least 15 minutes. Seek medical attention immediately.

**A battery cell and spilled internal cell materials**

- Ingestion:  
Wash out mouth thoroughly. Do not make the victim vomit, unless instructed by medical personnel. Seek medical attention immediately.

**5. FIRE-FIGHTING MEASURES**

- Suitable extinguishing media: Plenty of water, carbon dioxide gas, nitrogen gas, chemical powder fire extinguishing medium and fire foam.
- Specific hazards: Corrosive gas may be emitted during fire.
- Specific methods of fire-fighting: When the battery burns with other combustibles simultaneously, take fire-extinguishing method which correspond to the combustibles. Extinguish a fire from the windward as much as possible.
- Special protective equipment for firefighters:
  - Respiratory protection: Respiratory equipment of a gas cylinder style or protection-against-dust mask
  - Hand protection: Protective gloves
  - Eye protection: Goggle or protective glasses designed to protect against liquid splashes
  - Skin and body protection: Protective cloth

**6. ACCIDENTAL RELEASE MEASURES**

Spilled internal cell materials, such as electrolyte leaked from a battery cell, are carefully dealt with according to the followings.

- Precautions for human body:  
Remove spilled materials with protective equipment (protective glasses and protective gloves). Do not inhale the gas as much as possible. Moreover, avoid touching with as much as possible.
- Environmental precautions: Do not throw out into the environment.
- Method of cleaning up: The spilled solids are put into a container. The leaked place is wiped off with dry cloth.
- Prevention of secondary hazards: Avoid re-scattering. Do not bring the collected materials close to fire.

## 7. HANDLING AND STORAGE

- Handling suggestions
  - Do not connect the positive terminal to the negative terminal with electrical wire or chain.
  - Avoid polarity reverse connection when installing the battery to an instrument.
  - Do not wet the battery with water, seawater, drink or acid; or expose to strong oxidizer.
  - Do not damage or remove the external tube.
  - Keep the battery away from heat and fire.
  - Do not disassemble or reconstruct the battery; or solder the battery directly.
  - Do not give a mechanical shock or deform.
  - Do not use unauthorized charger or other charging method. Terminate charging when the charging process doesn't end within specified time.
- Storage
  - Do not store the battery with metalware, water, seawater, strong acid or strong oxidizer.
  - Make the charge amount 30~50% then store at room temperature or less (temperature= -20~35 degree C) in a dry (humidity: 45~85%) place. Avoid direct sunlight, high temperature, and high humidity.
  - Use insulative and adequately strong packaging material to prevent short circuit between positive and negative terminal when the packaging breaks during normal handling. Do not use conductive or easy to break packaging material.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION (WHEN THE ELECTROLYTE LEAKS)

- Control parameters
  - ACGIH has not been mentioned control parameter of electrolyte.
- Personal protective equipment
  - Respiratory protection: Respirator with air cylinder, dust mask
  - Hand protection: Protective gloves
  - Eye protection: Goggles or protective glasses designed to protect against liquid splashes
  - Skin and body protection: Working clothes with long sleeve and long trousers

## 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance
  - Physical state: Solid
  - Form: Cylindrical or Prismatic or Pouch (laminated)
  - Color: Metallic color or black (without tube if it has tube)
  - Odor: No odor

## 10. STABILITY AND REACTIVITY

- Stability: Stable under normal use
- Hazardous reactions occurring under specific conditions
  - Conditions to avoid: When a battery cell is exposed to an external short-circuit, crushes, deformation, high temperature above 100 degree C, it will be the cause of heat generation and ignition. Direct sunlight and high humidity.
  - Materials to avoid: Conductive materials, water, seawater, strong oxidizers and strong acids.
  - Hazardous decomposition products: Acrid or harmful gas is emitted during fire.

## 11. TOXICOLOGICAL INFORMATION

### **Organic Electrolyte**

- Acute toxicity:
  - LD<sub>50</sub>, oral - Rat 2,000mg/kg or more
- Irritating nature: Irritative to skin and eye

## 12. ECOLOGICAL INFORMATION

- Persistence/degradability:

Since a battery cell and the internal materials remain in the environment, do not bury or throw out into the environment.

## 13. DISPOSAL CONSIDERATIONS

- Recommended methods for safe and environmentally preferred disposal:

### **Product (waste from residues)**

Specified collection or disposal of lithium ion battery is required by the law like as "battery control law" in several nations. Collection or recycle of the battery is mainly imposed on battery's manufacturer or importer in the nations recycle is required.

### **Contaminated packaging**

Neither a container nor packing is contaminated during normal use. When internal materials leaked from a battery cell contaminates, dispose as industrial wastes subject to special control.

## 14. TRANSPORT INFORMATION

In the case of transportation, avoid exposure to high temperature and prevent the formation of any condensation. Take in a cargo of them without falling, dropping and breakage. Prevent collapse of cargo piles and wet by rain. The container must be handled carefully. Do not give shocks that result in a mark of hitting on a cell. Please refer to Section 7-HANDLING AND STORAGE also.

### **UN regulation**

- UN number: 3480 (3481 when the battery is contained in equipment or packed with equipment)
- Proper shipping name:  
Lithium ion batteries ("lithium ion batteries packed with equipment" or "lithium ion batteries contained in equipment")
- Class: 9 \*

*\* Although this product meets the criteria of "dangerous goods" and are classified as "lithium ion batteries", depending on the battery's total capacity in the packaging, etc., they may not be subject to the fully regulated provisions.*

### **Regulation depends on region and transportation mode**

- Worldwide - Air transportation:  
ICAO TI/IATA-DGR [packing instruction 965 section IB or II]  
(When shipping batteries "packed with" or "contained in" equipment, use packing instruction 966 or 967 as appropriate.)
- Worldwide - Ocean transportation:  
IMO-IMDG Code [special provision 188]
- Europe - Ground transportation:  
ADR [special provision 188]

*\* Instructions or provisions in the box brackets are conditions to make the battery cell exempted from full regulation.*

## 15. REGULATORY INFORMATION

- Regulations specifically applicable to the product:  
Wastes Disposal and Public Cleaning Law [Japan]  
Law for Promotion of Effective Utilization of resources [Japan]  
US Department of Transportation 49 Code of Federal Regulations [USA]

*\* About overlapping regulations, please refer to Section 14-TRANSPORT INFORMATION.*

## 16. OTHER INFORMATION

- This safety data sheet is offered an agency who handles this product to handle it safely.
- The agency should utilize this safety data sheet effectively (put it up, educate person in charge) and take proper measures.
- ***The information contained in this Safety data sheet is based on the present state of knowledge and current legislation.***
- This safety data sheet provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.

### Reference

Dangerous Goods Regulations – 59th Edition Effective 1 January 2018: International Air Transport Association (IATA)

IMDG Code – 2016 Edition: International Maritime Organization (IMO)

The European Agreement concerning the International Carriage of Dangerous Goods by Road – 2017:  
The United Nations Economic Commission for Europe (UNECE)

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Prepared and approved by: Technology Planning Department  
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