## SARTOMER ARKEMA WIII

## SAFETY DATA SHEET

# **SAR-GEL® PASTE**

## 1. PRODUCT AND COMPANY IDENTIFICATION

#### Company

Arkema Inc. 900 First Avenue King of Prussia, Pennsylvania 19406

Sartomer

**Customer Service Telephone Number:** 

(800) SARTOMER

(Monday through Friday, 8:30 AM to 5:30 PM EST)

**Emergency Information** 

Transportation:

CHEMTREC: (800) 424-9300

(24 hrs., 7 days a week)

Medical:

Rocky Mountain Poison Center: (866) 767-5089

(24 hrs., 7 days a week)

**Product Information** 

Product name:

SAR-GEL® PASTE

Synonyms: Molecular formula: SAR-GEL® Water Indicating Paste Proprietary mixture

Mixture

Chemical family: Product use:

Water detection in hydrocarbons

# 2. HAZARDS IDENTIFICATION

**Emergency Overview** 

Color:

white

Physical state:

solid

Form: Odor:

paste None.

# \*Classification of the substance or mixture:

Skin irritation, Category 2, H315 Serious eye damage, Category 1, H318 Germ cell mutagenicity, Category 2, H341 Carcinogenicity, Category 1B, H350 Reproductive toxicity, Category 2, H361

\*For the full text of the H-Statements mentioned in this Section, see Section 16.

Product code: FP01784-P

Version 1.1

Issued on: 11/24/2014

Page: 1 / 16



# **SAR-GEL® PASTE**

# **GHS-Labelling**

Hazard pictograms:





Signal word:

Danger

## **Hazard statements:**

H315 : Causes skin irritation.

H318: Causes serious eye damage.

H341: Suspected of causing genetic defects.

H350: May cause cancer.

H361: Suspected of damaging fertility or the unborn child.

## Supplemental Hazard Statements:

Processing may release vapors and/or fumes which cause eye, skin and respiratory tract irritation. Keep out of reach of children For industrial use only.

# Precautionary statements:

#### Prevention:

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P264: Wash skin thoroughly after handling. P280: Wear eye protection/ face protection.

P280 : Wear protective gloves.

P281: Use personal protective equipment as required.

#### Response:

P302 + P352 : IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338 : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

Page: 2 / 16

present and easy to do. Continue rinsing.

P308 + P313 : IF exposed or concerned: Get medical advice/ attention. P310 : Immediately call a POISON CENTER or doctor/ physician. P332 + P313 : If skin irritation occurs: Get medical advice/ attention.

P362: Take off contaminated clothing and wash before reuse.

#### Storage:

P405 : Store locked up.

#### Disposal:

P501: Dispose of contents/ container to an approved waste disposal plant.

Product code: FP01784-P Version 1.1 Issued on: 11/24/2014



# **SAR-GEL® PASTE**

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Wt/Wt	GHS Classification**
Poly[oxy(methyl-1,2-ethanediyl)], .alpha hydroomegahydroxy-	25322-69-4	>= 30 - < 60 %	Not classified
Poly(oxy-1,2-ethanediyl), .alphahydro- .omegahydroxy-	25322-68-3	>= 30 - < 60 %	Not classified
Calcium oxide (CaO)	1305-78-8	>= 5 - < 10 %	H335, H318, H315
Proprietary component	Proprietary*	>= 5 -< 10 %	H330
1(3H)-Isobenzofuranone, 3,3-bis(4-hydroxyphenyl)-	77-09-8	>= 1 - < 5 %	H340, H350, H361f, H315

<sup>\*</sup>The specific chemical identity is withheld because it is trade secret information of Arkema Inc.

## 4. FIRST AID MEASURES

## Inhalation:

If inhaled, remove victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

#### Skin

In case of contact, immediately flush skin with plenty of water while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

#### Eyes:

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

#### Ingestion:

If swallowed, DO NOT induce vomiting. Get medical attention immediately. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person.

# 5. FIREFIGHTING MEASURES

# Extinguishing media (suitable):

Water spray, Carbon dioxide (CO2), Foam, Dry chemical

Product code: FP01784-P

Version 1.1

Issued on: 11/24/2014

Page: 3 / 16

<sup>\*\*</sup>For the full text of the H-Statements mentioned in this Section, see Section 16.



# SAR-GEL® PASTE

Protective equipment:

Fire fighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear (full Bunker Gear) and self-contained breathing apparatus (pressure demand / NIOSH approved or equivalent).

## Further firefighting advice:

Fight fire from a protected location.

Fire fighting equipment should be thoroughly decontaminated after use.

## Fire and explosion hazards:

When burned, the following hazardous products of combustion can occur:

Carbon oxides

Hazardous organic compounds

## 6. ACCIDENTAL RELEASE MEASURES

In case of spill or leak:

Prevent further leakage or spillage if you can do so without risk. Evacuate area of all unnecessary personnel. Ventilate the area. Avoid generation of vapors. Contain and collect spillage with non-combustible absorbent material such as clean sand, earth, diatomaceous earth or non-acidic clay and place into suitable properly labeled containers for prompt disposal. Sweep up and shovel into suitable properly labeled containers for prompt disposal. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.

## 7. HANDLING AND STORAGE

#### Handling

# General information on handling:

Do not taste or swallow.

Do not get in eyes, on skin, or on clothing.

Avoid breathing processing fumes or vapors.

Avoid breathing dust.

Keep container tightly closed.

Use only with adequate ventilation.

Wash thoroughly after handling.

Emptied container retains product residue.

Observe all labeled safeguards until container is cleaned, reconditioned or destroyed.

## **Storage**

General information on storage conditions:

Store away from moisture and heat to maintain the technical properties of the product. Keep container tightly closed.

Storage stability - Remarks:

The typical shelf-life for this product is 12 months.

# Storage incompatibility - General:

Store separate from:

Strong acids

Product code: FP01784-P

Version 1.1

Issued on: 11/24/2014

Page: 4 / 16



# SAR-GEL® PASTE

Strong alkalies

Strong oxidizing agents

Phosphorus pentoxide

Temperature tolerance – Do not store below:– 32 °F (0 °C)

Temperature tolerance - Do not store above:

100 °F (38 °C)

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Airborne Exposure Guidelines:

Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-hydroxy- (25322-69-4)

US. OARS. WEELs Workplace Environmental Exposure Level Guide

Form:

Aerosol

time weighted average

10 mg/m3

Form:

Aerosol

Remarks:

Listed

Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy- (25322-68-3)

US. OARS. WEELs Workplace Environmental Exposure Level Guide

Form:

particulate

time weighted average

10 mg/m3

Form:

particulate

Remarks:

Listed

Calcium oxide (CaO) (1305-78-8)

US. ACGIH Threshold Limit Values

time weighted average

2 mg/m3

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

PEL:

5 mg/m3

Only those components with exposure limits are printed in this section. Limits with skin contact designation above have skin contact effect. Air sampling alone is insufficient to accurately quantitate exposure. Measures to prevent significant cutaneous absorption may be required. Limits with a sensitizer designation above mean that exposure to this material may cause allergic reactions.

Product code: FP01784-P

Version 1.1

Issued on: 11/24/2014

Page: 5 / 16



# **SAR-GEL® PASTE**

#### Engineering controls:

Investigate engineering techniques to reduce exposures below airborne exposure limits or to otherwise reduce exposures. Provide ventilation if necessary to minimize exposures or to control exposure levels to below airborne exposure limits (if applicable see above). If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment.

Respiratory protection:

Avoid breathing processing fumes or vapors. Avoid breathing dust. Where airborne exposure is likely or airborne exposure limits are exceeded (if applicable, see above), use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Full facepiece equipment is recommended and, if used, replaces need for face shield and/or chemical goggles. Consult respirator manufacturer to determine appropriate type equipment for a given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure or where exposure limit may be significantly exceeded, use an approved full face positive-pressure, self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply. Respiratory protection programs must comply with 29 CFR § 1910.134.

Skin protection:

Wear appropriate chemical resistant protective clothing and chemical resistant gloves to prevent skin contact. Consult glove manufacturer to determine appropriate type glove material for given application. Rinse immediately if skin is contaminated. Provide a safety shower at any location where skin contact can occur. Wash contaminated clothing and clean protective equipment before reuse. Wash thoroughly after handling.

Eye protection:

Where there is potential for eye contact, wear a face shield, chemical goggles, and have eye flushing equipment immediately available.

9. PHYSICAL AND CHEMICAL PROPERTIES		
Color:	white	
Physical state:	solid	
Form:	paste	
Odor:	None.	
Odor threshold:	No data available	
Flash point	> 230 °F (110 °C) (Tag closed cup)	
Auto-ignition temperature:	No data available	

Product code: FP01784-P Version 1.1

Issued on: 11/24/2014

Page: 6 / 16



# **SAR-GEL® PASTE**

Lower flammable limit

(LFL):

No data available

Upper flammable limit

(UFL):

No data available

pH:

~ 7

Density:

No data available

Specific Gravity (Relative

density):

1.160 (77 °F( 25 °C))

Vapor pressure:

No data available

Vapor density:

No data available

**Boiling point/boiling** 

No data available

range:

Freezing point:

No data available

Melting point/range:

No data available

Evaporation rate:

No data available

Solubility in water:

negligible

Oil/water partition

coefficient:

No data available

Thermal decomposition

No data available

Flammability (solid, gas):

Not relevant

# 10. STABILITY AND REACTIVITY

## Stability:

This material is chemically stable under normal and anticipated storage, handling and processing conditions.

# Hazardous reactions:

None under normal conditions of use.

## Materials to avoid:

Phosphorus pentoxide

Strong acids

Strong alkalies

Strong oxidizing agents

## Conditions / hazards to avoid:

Store away from moisture and heat to maintain the technical properties of the product.

Hazardous decomposition products:

Product code: FP01784-P

Version 1.1

Issued on: 11/24/2014

Page: 7 / 16



# **SAR-GEL® PASTE**

Thermal decomposition giving flammable and toxic products:

Carbon oxides

Hazardous organic compounds

## 11. TOXICOLOGICAL INFORMATION

Data on this material and/or its components are summarized below.

#### Inhalation:

4 h Acute toxicity estimate 7.72 mg/l.

# Data for Polypropylene glycol (25322-69-4)

## **Acute toxicity**

#### Oral:

No deaths occurred. (Rat) LD50 > 2,000 mg/kg. signs: nervous system effects

#### Dermal:

No deaths occurred. (Rabbit) LD50 > 2,000 mg/kg.

#### Skin Irritation:

Practically non-irritating, (Rabbit)

#### Eye Irritation:

Causes mild eye irritation. (Rabbit)

#### Skin Sensitization:

Not a sensitizer. Guinea pig maximization test. (Guinea pig) No skin allergy was observed

Not a sensitizer, LLNA: Local Lymph Node Assay. (Mouse) No skin allergy was observed

#### Repeated dose toxicity

Repeated oral administration to rat and dog / No adverse effects reported.

Repeated dermal administration to Rabbit / No adverse effects reported.

## Genotoxicity

#### Assessment in Vitro:

No genetic changes were observed in a laboratory test using: bacteria

## Reproductive effects

Reproduction test. oral (Mouse) / No toxicity to reproduction.

## Other information

The information presented is from representative materials with this Chemical Abstract Service (CAS) Registry number. The results vary depending on the size and composition of the test substance.

# Human experience

Skin contact:

Product code: FP01784-P Version 1.1 Issued on: 11/24/2014 Page: 8 / 16



# SAR-GEL® PASTE

No skin allergy was observed. (repeated or prolonged exposure)

# Data for Polyethylene glycol (25322-68-3)

# **Acute toxicity**

Oral:

Practically nontoxic. (Rat) LD50 > 38,000 - 50,000 mg/kg.

Dennal

Practically nontoxic. (Rabbit) LD50 > 20,000 mg/kg.

Skin Irritation:

Not imitating. (Rabbit)

Eye Irritation:

Causes mild eye irritation. (Rabbit)

Skin Sensitization:

Not a sensitizer. Intradermal injection. (Guinea pig) No skin allergy was observed

Repeated dose toxicity

Repeated dietary administration to Rat / signs: changes in body weight

Repeated dermal administration to Rabbit / No adverse effects reported.

Chronic dietary administration to rat and dog / No adverse effects reported.

## Genotoxicity

## Assessment in Vitro:

No genetic changes were observed in laboratory tests using: bacteria, animal cells

## **Developmental toxicity**

Exposure during pregnancy. oral, dermal (rabbit, rat) / No birth defects were observed.

## Reproductive effects

Multiple generation reproduction test. oral (Rat) / No toxicity to reproduction

## Other information

The information presented is from representative materials with this Chemical Abstract Service (CAS) Registry number. The results vary depending on the size and composition of the test substance.

## Human experience

Skin contact:

Skin: rash. (subjects with dermatitis or eczema)

Skin: No skin allergy was observed. (studied using human volunteers)

## Data for Calcium oxide (1305-78-8)

# **Acute toxicity**

Oral:

# SARTOMER

## SAFETY DATA SHEET

# **SAR-GEL® PASTE**

May be harmful if swallowed. (Rat) LD0 > 2,000 mg/kg. (No mortality observed at this dose.)

#### Skin Irritation:

Practically non-irritating. (Rabbit) (< 4 h) (applied dry)

## Genotoxicity

#### Assessment in Vitro:

No genetic changes were observed in a laboratory test using: bacteria

## **Developmental toxicity**

Exposure during pregnancy, oral (rat and mouse) / No birth defects were observed.

## Human experience

## Inhalation:

Upper respiratory tract: Discomfort, coughing, irritation, perforation of the nasal septum. (extent of injury depends on severity of exposure)

#### Human experience

#### Skin contact:

Irritation, burning of skin. Irritant but not a sensitizer.

# Human experience

## Eye contact:

Severe irritation.

## Data for Proprietary component (Proprietary)

#### **Acute toxicity**

## Oral:

Practically nontoxic. (Rat) LD50 > 5,000 mg/kg.

## Skin Irritation:

Not irritating. (Rabbit)

## Eye Irritation:

Not irritating. (Rabbit)

# Repeated dose toxicity

Repeated inhalation administration to Rat / affected organ(s): lung, lymph node / signs: increased organ weight, changes in organ structure or function / No significant impairment of function.

Repeated oral administration to Rat / No adverse effects reported.

## Carcinogenicity

Chronic oral administration to Rat / signs: No increase in tumor incidence was reported.

## Genotoxicity

## Assessment in Vitro:

No genetic changes were observed in laboratory tests using: bacteria, animal cells

#### Reproductive effects

Product code: FP01784-P

Version 1.1

Issued on: 11/24/2014

Page: 10 / 16



# SAR-GEL® PASTE

Reproduction test. dietary (Rat) / No toxicity to reproduction

## Data for Phenolphthalein (77-09-8)

#### **Acute toxicity**

## Skin Irritation:

Causes skin irritation. (In vitro)

## Eye Irritation:

Causes mild eye irritation. (In vitro)

#### Skin Sensitization:

Not a sensitizer. LLNA: Local Lymph Node Assay. (Mouse) No effect is reported.

## Repeated dose toxicity

Subchronic dietary administration to Rat / No adverse systemic effects reported.

#### Carcinogenicity

Chronic dietary administration to Rat / affected organ(s): kidney, adrenal gland / signs: Increased incidence of tumors was reported.

Chronic dietary administration to Mouse / affected organ(s): Thymus, ovaries / signs: Increased incidence of tumors was reported.

Classified by the International Agency for Research on Cancer as: Group 2B: Possibly carcinogenic to humans. Listed by the National Toxicology Program as: Reasonably anticipated to be a human carcinogen.

## Genotoxicity

## Assessment in Vitro:

No genetic changes were observed in laboratory tests using: bacteria

Genetic changes were observed in laboratory tests using: animal cells

# **Genotoxicity**

# Assessment in Vivo:

Genetic changes were observed in laboratory tests using: mice

# Reproductive effects

Two generation reproduction study. dietary (Mouse) / Effects on fertility / (toxic effects also observed in the parental animals at these doses, smaller litter sizes, testes, sperm)

## 12. ECOLOGICAL INFORMATION

## **Chemical Fate and Pathway**

Data on this material and/or its components are summarized below.

## Data for Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-hydroxy- (25322-69-4)

#### **Biodegradation:**

Readily biodegradable. (28 d) biodegradation 86.60 %





# **SAR-GEL® PASTE**

## **Biological Oxygen Demand:**

BOD = 0 - 240 mg/g 0 - 11% ThOD

## Chemical Oxygen Demand:

COD = 2,040 - 2,120 mg/g 95 - 97%ThOD

## **Octanol Water Partition Coefficient:**

log Pow <= 0.9

## Additional Information:

Information given is based on data obtained from similar substances.

## Data for Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy- (25322-68-3)

## **Biological Oxygen Demand:**

BOD between 10,000 - 20,000 mg/g (MW 200 - 6000)

## **Chemical Oxygen Demand:**

COD between 1,620 - 1,800 mg/g (MW 200 - 6000)

## Data for 1(3H)-Isobenzofuranone, 3,3-bis(4-hydroxyphenyl)- (77-09-8)

## **Biodegradation:**

Readily biodegradable. (28 d) biodegradation 76 %

## **Octanol Water Partition Coefficient:**

log Pow = 0.9

#### **Ecotoxicology**

Data on this material and/or its components are summarized below.

## Data for Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-hydroxy- (25322-69-4)

Information given is based on data obtained from similar substances.

## Aquatic toxicity data:

Practically nontoxic. Lepomis macrochirus (Bluegill sunfish) 96 h LC50 = 1,700 mg/l

Practically nontoxic. Silverside, tidewater 96 h LC50 = 650 mg/l

Practically nontoxic. Oncorhynchus mykiss (rainbow trout) 96 h LC50 > 10,000 mg/l

Practically nontoxic. Danio rerio (zebra fish) 96 h LC50 > 100 mg/l

## Aquatic invertebrates:

Practically nontoxic. Daphnia magna (Water flea) 48 h EC50 = 105.8 mg/l

## Algae:

Practically nontoxic. Desmodesmus subspicatus (green algae) 72 h EC50 > 100 mg/l

# Microorganisms:

Practically nontoxic. Activated sludge 3 h EC50 > 1,000 mg/l

## Chronic toxicity to aquatic invertebrates:

Practically nontoxic. Daphnia magna (Water flea) 21 d NOEC >= 10 mg/l

Product code: FP01784-P Version 1.1 Issued on: 11/24/2014 Page: 12 / 16



# **SAR-GEL® PASTE**

## Data for Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy- (25322-68-3)

## Aquatic toxicity data:

Practically nontoxic. Carassius auratus (goldfish) 24 h LC50 > 5,000 mg/l

## Data for Calcium oxide (CaO) (1305-78-8)

#### Aquatic toxicity data:

Practically nontoxic. Cyprinus carpio (Carp) 96 h LC50 1,070 mg/l

# Data for Proprietary component (Proprietary)

### Aquatic toxicity data:

No effect up to the limit of solubility. Danio rerio (zebra fish) 96 h NOEC > 10,000 mg/l (nominal concentrations reported)

#### Aquatic invertebrates:

No effect up to the limit of solubility. Daphnia magna (Water flea) 24 h NOEC > 10,000 mg/l (nominal concentrations reported)

#### Algae

No effect up to the limit of solubility. Scenedesmus subspicatus 72 h NOEC > 10,000 mg/l (nominal concentrations reported)

## Data for 1(3H)-Isobenzofuranone, 3,3-bis(4-hydroxyphenyl)- (77-09-8)

## Aquatic invertebrates:

Practically nontoxic. Daphnia magna (Water flea) 48 h EC50 > 100 mg/l

#### Algae:

Toxic. Desmodesmus subspicatus (green algae) 72 h EC50 = 8.9 mg/l

## 13. DISPOSAL CONSIDERATIONS

## Waste disposal:

Disposal via incineration is recommended. Dispose of in accordance with federal, state and local regulations. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits. Note: Chemical additions to, processing of, or otherwise altering this material may make this waste management information incomplete, inaccurate, or otherwise inappropriate. Furthermore, state and local waste disposal requirements may be more restrictive or otherwise different from federal laws and regulations.

## 14. TRANSPORT INFORMATION

US Department of Transportation (DOT): not regulated

International Maritime Dangerous Goods Code (IMDG): not regulated

Product code: FP01784-P Version 1.1 Issued on: 11/24/2014 Page: 13 / 16



# SAR-GEL® PASTE

#### 15. REGULATORY INFORMATION

	Inventory Status	

EU. EINECS EINECS Conforms to

United States TSCA Inventory TSCA The components of this product are all on

the TSCA Inventory.

Canadian Domestic Substances List (DSL)

DSL

This product contains one or several

components listed in the Canadian NDSL list. All other components are on the DSL

list.

China. Inventory of Existing Chemical Substances in IEC

China (IECSC)

IECSC (CN)

Conforms to

Japan. ENCS - Existing and New Chemical

Substances Inventory

ENCS (JP)

Does not conform

Japan. ISHL - Inventory of Chemical Substances

ISHL (JP)

Does not conform

Korea. Korean Existing Chemicals Inventory (KECI)

KECI (KR)

Does not conform

Philippines Inventory of Chemicals and Chemical Substances (PICCS)

PICCS (PH)

Does not conform

Australia Inventory of Chemical Substances (AICS)

AICS

Conforms to

#### United States - Federal Regulations

## SARA Title III - Section 302 Extremely Hazardous Chemicals:

The components in this product are either not SARA Section 302 regulated or regulated but present in negligible concentrations.

#### SARA Title III - Section 311/312 Hazard Categories:

Acute Health Hazard, Chronic Health Hazard

## SARA Title III - Section 313 Toxic Chemicals:

The following components are subject to reporting levels established by SARA Title III, Section 313:

<u>Chemical Name</u> <u>CAS-No.</u> <u>De minimis</u> <u>Reportable threshold:</u>

1(3H)-Isobenzofuranone, 3,3-bis(4-

hydroxyphenyl)-

77-09-8 <u>concentration</u> 0.1 %

10000 lbs (Otherwise used

(non-

manufacturing/processing))
25000 lbs (Manufacturing

and processing)

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) - Reportable Quantity (RQ):

Product code: FP01784-P

Version 1.1

Issued on: 11/24/2014

Page: 14 / 16

# SARTOMER

## SAFETY DATA SHEET

# **SAR-GEL® PASTE**

The components in this product are either not CERCLA regulated, regulated but present in negligible concentrations, or regulated with no assigned reportable quantity.

# United States - State Regulations

## New Jersey Right to Know

<u>Chemical Name</u>	CAS-No.
Calcium oxide (CaO)	1305-78-8
1(3H)-Isobenzofuranone, 3,3-bis(4-hydroxyphenyl)-	77-09-8

# New Jersey Right to Know - Special Health Hazard Substance(s)

Chemical Name	CAS-No.
Calcium oxide (CaO)	1305-78-8
1(3H)-Isobenzofuranone, 3,3-bis(4-hydroxyphenyl)-	77-09-8

## Pennsylvania Right to Know

<u>Chemical Name</u> Poly[oxy(methyl-1,2-ethanediyl)], .alphahydroomega hydroxy-	<u>CAS-No.</u> 25322-69-4
Poly(oxy-1,2-ethanediyl), .alphahydroomegahydroxy-	25322-68-3
Calcium oxide (CaO)	1305-78-8
Proprietary component	Proprietary

## California Prop. 65

WARNING! This product contains a chemical known to the State of California to cause cancer.

Chemical Name	<u>CAS-No.</u>
1(3H)-Isobenzofuranone, 3,3-bis(4-hydroxyphenyl)-	77-09-8

# **16. OTHER INFORMATION**

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

1(3H)-Isobenzofuranone, 3,3-bis(4-hydroxyphenyl)-

H315	Causes skin irritation.
H318	Causes serious eye damage.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H361	Suspected of damaging fertility or the unborn child.
H361f	Suspected of damaging fertility.
	·

# Latest Revision(s):

Reference number:	000000081336

77-09-8

Product code: FP01784-P Version 1.1 Issued on: 11/24/2014 Page: 15 / 16



# **SAR-GEL® PASTE**

Date of Revision: Date Printed: 11/24/2014 11/24/2014

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Product code: FP01784-P

Version 1.1

Issued on: 11/24/2014

Page: 16 / 16