

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

- Trade name BHA OPTIMOX

1.2 Relevant identified uses of the substance or mixture and uses advised against**Uses of the Substance / Mixture**

- Food additive
- Animal feedstuff
- Additive

1.3 Details of the supplier of the safety data sheet**Company**

Solvay USA Inc.,
AROMA PERFORMANCE
8 Cedar Brook Drive
Cranbury, NJ, 08512-7500, US
Telephone number: 609-860-4000

1.4 Emergency telephone

FOR EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT CONTACT: CHEMTREC 800-424-9300 within the United States and Canada, or 703-527-3887 for international collect calls.

SECTION 2: Hazards identification

Although OSHA has not adopted the environmental portion of the GHS regulations, this document may include information on environmental effects.

2.1 Classification of the substance or mixture**HCS 2012 (29 CFR 1910.1200)**

Combustible dust
Serious eye damage, Category 1
Skin sensitization, Category 1
Reproductive toxicity, Category 2

May form combustible dust concentrations in air.
H318: Causes serious eye damage.
H317: May cause an allergic skin reaction.
H361: Suspected of damaging fertility or the unborn child.

2.2 Label elements**HCS 2012 (29 CFR 1910.1200)****Pictogram****Signal Word**

- Danger

Hazard Statements

- May form combustible dust concentrations in air.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H361 Suspected of damaging fertility or the unborn child.

Precautionary Statements

Prevention

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P261 Avoid breathing dust.
- P272 Contaminated work clothing must not be allowed out of the workplace.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response

- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
- P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
- P308 + P313 IF exposed or concerned: Get medical advice/ attention.
- P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
- P363 Wash contaminated clothing before reuse.

Storage

- P405 Store locked up.

Disposal

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

2.3 Other hazards which do not result in classification

- H401: Toxic to aquatic life.
- H411: Toxic to aquatic life with long lasting effects.

SECTION 3: Composition/information on ingredients**3.1 Substance****Hazardous Ingredients and Impurities**

Chemical Name	Identification number CAS-No.	Concentration [%]
Phenol, (1,1-dimethylethyl)-4-methoxy-	25013-16-5	>= 98.5
Phenol, 4-methoxy-	150-76-5	< 0.2

3.2 Mixture

Not applicable, this product is a substance.

SECTION 4: First aid measures**4.1 Description of first-aid measures****General advice**

- Show this material safety data sheet to the doctor in attendance.
- First responder needs to protect himself.
- Place affected apparel in a sealed bag for subsequent decontamination.

In case of inhalation

- Move to fresh air.
- Keep at rest.
- If breathing is difficult, give oxygen.
- Consult a physician if necessary.

In case of skin contact

- Take off contaminated clothing and shoes immediately.
- Wash off with soap and plenty of water.
- Consult a physician if necessary.

In case of eye contact

- Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
- Get immediate medical advice/ attention.
- If it is necessary to transport the patient to a physician and the eye needs to be bandaged, use a dry sterile cloth pad and cover both eyes.

In case of ingestion

- Do NOT induce vomiting.
- Do not give anything to drink.
- Consult a physician if necessary.

4.2 Most important symptoms and effects, both acute and delayed**Effects**

- Skin contact may aggravate existing skin disease
- Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis

4.3 Indication of any immediate medical attention and special treatment needed**Notes to physician**

- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.
- Treat symptomatically.
- There is no specific antidote available.

SECTION 5: Firefighting measures

Flash point 287.8 °F (142.1 °C)
closed cup

Autoignition temperature no data available

Flammability / Explosive limit no data available

5.1 Extinguishing media**Suitable extinguishing media**

- Foam
- powder
- Water spray

Unsuitable extinguishing media

- None known.
- Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture

- On combustion, toxic gases are released.
- Risk of dust explosion.

5.3 Advice for firefighters**Special protective equipment for fire-fighters**

- Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

Specific fire fighting methods

- Use appropriate means for fighting adjacent fires.
- Cool containers/tanks with water spray.

Further information

- Cool containers/tanks with water spray.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

- Remove all sources of ignition.
- Avoid dust formation.
- Avoid contact with eyes, skin, and respiratory system.
- Use personal protective equipment.
- For personal protection see section 8.
- Do not allow uncontrolled discharge of product into the environment.
- Mark the contaminated area with signs and prevent access to unauthorized personnel.
- Ventilate the area.

6.2 Environmental precautions

- Do not allow uncontrolled discharge of product into the environment.
- Spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies

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

- Treat recovered material as described in the section "Disposal considerations".

Decontamination / cleaning

- Clean contaminated floors and objects thoroughly while observing environmental regulations.
- After cleaning, flush away traces with water.
- Recover the cleaning water for subsequent disposal.

Recovery

- Shovel or sweep up.
- Avoid dust formation.
- Non-sparking tools should be used.
- Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 13. DISPOSAL CONSIDERATIONS

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

- Avoid dust formation.
- Ground/bond container and receiving equipment.
- Keep away from fire, sparks and heated surfaces.
- Potential dust explosion hazard.
- Non-sparking tools should be used.
- Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations.
- It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment.
- Avoid any direct contact with the product.
- Use only with adequate ventilation/personal protection.

Hygiene measures

- Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this materials:
 - 1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
 - 2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
 - 3) Wash exposed skin promptly to remove accidental splashes or contact with material.
- Emergency equipment immediately accessible, with instructions for use.
- Ensure that eyewash stations and safety showers are close to the workstation location.
- Use clean, well maintained personal protection equipment.
- Contaminated work clothing should not be allowed out of the workplace.

7.2 Conditions for safe storage, including any incompatibilities**Technical measures/Storage conditions**

- Keep container tightly closed.
- light resistant
- Protect from moisture.

- Keep away from: Strong oxidizing agents

Packaging material**Suitable material**

- Polyethylene

Remarks

- Metal drum with a polyethylene flexible container.

7.3 Specific end use(s)

- no data available

SECTION 8: Exposure controls/personal protection

Introductory Remarks: These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.

8.1 Control parameters**Components with workplace occupational exposure limits**

Ingredients	Value type	Value	Basis
Phenol, 4-methoxy-	TWA	5 mg/m ³	National Institute for Occupational Safety and Health
Phenol, 4-methoxy-	TWA	5 mg/m ³	American Conference of Governmental Industrial Hygienists
Particulates not otherwise regulated	PEL	15 mg/m ³	Occupational Safety and Health Administration - Table Z-1 Limits for Air Contaminants
	Form of exposure : Total dust		
Particulates not otherwise regulated	PEL	5 mg/m ³	Occupational Safety and Health Administration - Table Z-1 Limits for Air Contaminants
	Form of exposure : Respirable fraction		

Hazardous components without workplace control parameters

Chemical Name	Identification number CAS-No.	Exposure Limit Values
Phenol, (1,1-dimethylethyl)-4-methoxy-	25013-16-5	None

8.2 Exposure controls**Control measures****Engineering measures**

- Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures :
- Highly effective exhaust ventilation
- dust extractors
- Extract at emission point.
- Apply technical measures to comply with the occupational exposure limits.

Individual protection measures**Respiratory protection**

- When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations.
- Under normal conditions, in the absence of other airborne contaminants, the following devices should provide protection from this material up to the conditions specified by the appropriate local standard(s):
- Respirator with a dust filter

Hand protection

- Where there is a risk of contact with hands, use appropriate gloves
- Gloves must be inspected prior to use.
- Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Eye protection

- Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material.
- Eye contact should be prevented through the use of:
 - Safety glasses with side-shields
 - Goggles

Skin and body protection

- Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Wear as appropriate:
 - Long sleeved clothing
 - Dust impervious protective suit
 - Remove and wash contaminated apparel.

Hygiene measures

- Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this materials:
 - 1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
 - 2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
 - 3) Wash exposed skin promptly to remove accidental splashes or contact with material.
- Emergency equipment immediately accessible, with instructions for use.
- Ensure that eyewash stations and safety showers are close to the workstation location.
- Use clean, well maintained personal protection equipment.
- Contaminated work clothing should not be allowed out of the workplace.

Protective measures

- Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the potential hazards, and/or risks that may occur during use.
- The protective equipment must be selected in accordance with current local standards and in cooperation with the supplier of the protective equipment.

SECTION 9: Physical and chemical properties

Physical and Chemical properties here represent typical properties of this product. Contact the business area using the Product information phone number in Section 1 for its exact specifications.

9.1 Information on basic physical and chemical properties

<u>Appearance</u>	<u>Form:</u>	flakes
	<u>Physical state:</u>	solid
	<u>Color:</u>	white to light cream
<u>Odor</u>		characteristic
<u>Odor Threshold</u>		no data available
<u>Molecular weight</u>		180.24 g/mol
<u>pH</u>		4.0 (1 %)

<u>Melting point/freezing point</u>	Melting point/range: 118 - 145 °F (48 - 63 °C)
<u>Initial boiling point and boiling range</u>	Boiling point/boiling range: 514 °F (268 °C) (759.81 mmHg (1,013 hPa))
<u>Flash point</u>	287.8 °F (142.1 °C) (724.56 mmHg (966 hPa)) closed cup
<u>Evaporation rate (Butylacetate = 1)</u>	no data available
<u>Flammability (solid, gas)</u>	The product is not flammable. May form combustible dust concentrations in air.
<u>Flammability / Explosive limit</u>	no data available
<u>Autoignition temperature</u>	no data available
<u>Vapor pressure</u>	0.00234 mmHg (0.003 hPa) (77 °F (25 °C))
<u>Vapor density</u>	no data available
<u>Density</u>	<u>Bulk density:</u> 0.666 g/cm ³ (81 °F (27 °C))
<u>Relative density</u>	no data available
<u>Solubility</u>	<u>Water solubility:</u> 3,400 mg/l (81 °F (27 °C))soluble <u>Solubility in other solvents:</u> Ethanol : soluble petroleum ether : soluble
<u>Partition coefficient: n-octanol/water</u>	log Pow: 1 (81 °F (27 °C))
<u>Decomposition temperature</u>	no data available
<u>Viscosity</u>	no data available
<u>Explosive properties</u>	no data available
<u>Oxidizing properties</u>	no data available

9.2 Other information

no data available

SECTION 10: Stability and reactivity**10.1 Reactivity**

- Not classified as a reactivity hazard.

10.2 Chemical stability

- Stable under normal conditions.

10.3 Possibility of hazardous reactions

- Hazardous polymerization does not occur.

10.4 Conditions to avoid

- Heat, flames and sparks.
- Static electricity
- Avoid dust formation.

10.5 Incompatible materials

- Oxidizing agents

10.6 Hazardous decomposition products

- On combustion or on thermal decomposition (pyrolysis), releases:
- Toxic Gas
- (Carbon oxides (CO + CO₂)).

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity

Phenol, (1,1-dimethylethyl)-4-methoxy- LD50 : 2,500 mg/kg - Rat , male and female
Method: OECD Test Guideline 423
Gavage
Unpublished reports

Acute inhalation toxicity

no data available

Acute dermal toxicity

Phenol, (1,1-dimethylethyl)-4-methoxy- LD50 : > 2,000 mg/kg - Rat , male and female
Method: OECD Test Guideline 402
Unpublished reports

Acute toxicity (other routes of administration)

no data available

Skin corrosion/irritation

Phenol, (1,1-dimethylethyl)-4-methoxy- Method: OECD Test Guideline 404
Not irritating to rabbits on cutaneous application.
Unpublished reports

Serious eye damage/eye irritation

Phenol, (1,1-dimethylethyl)-4-methoxy- Rabbit
Risk of serious damage to eyes.
Method: OECD Test Guideline 405
Unpublished internal reports

Respiratory or skin sensitization

Phenol, (1,1-dimethylethyl)-4-methoxy- Magnusson and Kligman method - Guinea pig
Does not cause skin sensitization.
Method: OECD Test Guideline 406
Unpublished reports

Mutagenicity**Genotoxicity in vitro**

Phenol, (1,1-dimethylethyl)-4-methoxy- Ames test
Strain: Salmonella typhimurium
with and without metabolic activation

negative
Published data

In vitro gene mutation study in mammalian cells
Strain: V79
with and without metabolic activation

negative
Published data

Gene mutation assays in mammalian cells.
Strain: mammalian liver cells
without metabolic activation

negative
Published data

Chromosome aberration test in vitro
Strain: CHO
with metabolic activation

positive
Published data

Chromosome aberration test in vitro
Strain: CHL
without metabolic activation

positive
Published data

In vitro mammalian cell gene mutation test
Strain: CHO
with and without metabolic activation

negative
Unpublished reports

Genotoxicity in vivo

Phenol, (1,1-dimethylethyl)-4-methoxy- Conflicting results have been seen in different studies.
Published data

Carcinogenicity

Phenol, (1,1-dimethylethyl)-4-methoxy-

Mouse
Oral
Target Organs: Forestomach
This substance has been reported to cause tumors in certain animal species.
Not relevant for Humans
Published data
Note: IARC Classification: Group 2B

Rat
Oral
Target Organs: Forestomach
This substance has been reported to cause tumors in certain animal species.
Not relevant for Humans
Published data
Note: IARC Classification: Group 2B

Ingredients	CAS-No.	Rating	Basis
Phenol, (1,1-dimethylethyl)-4-methoxy-	25013-16-5	Reasonably anticipated to be a human carcinogen	NTP
Phenol, (1,1-dimethylethyl)-4-methoxy-	25013-16-5	Group 2B: Possibly carcinogenic to humans	IARC

This product does not contain any ingredient designated as probable or suspected human carcinogens by:

OSHA
ACGIH

Toxicity for reproduction and development**Toxicity to reproduction / fertility**

Phenol, (1,1-dimethylethyl)-4-methoxy- One-Generation Reproduction Toxicity Study - Rat
Oral
NOAEL parent: 100 mg/kg
Effect on litter size.
Reduced fertility
Published data

Developmental Toxicity/Teratogenicity

Phenol, (1,1-dimethylethyl)-4-methoxy- Rabbit
Application Route: Oral
NOAEL teratogenicity: 400 mg/kg
Published data
No embryotoxic effects have been observed in animal tests.

STOT**STOT-single exposure**

Phenol, (1,1-dimethylethyl)-4-methoxy- Routes of exposure: Ingestion
The substance or mixture is not classified as specific target organ toxicant, single exposure according to GHS criteria.
internal evaluation

STOT-repeated exposure

Phenol, (1,1-dimethylethyl)-4-methoxy-	Routes of exposure: Ingestion The substance or mixture is not classified as specific target organ toxicant, repeated exposure according to GHS criteria. internal evaluation
Phenol, (1,1-dimethylethyl)-4-methoxy-	Oral - Rat , male and female in food 8 Months LOAEL: 250 mg/kg Published data 8 Months NOAEL: 50 mg/kg Published data Oral - Rat , male and female in feed 90 Days LOAEL: 1000 mg/kg Published data 90 Days NOAEL: 250 mg/kg Published data

CMR effects**Carcinogenicity**

Phenol, (1,1-dimethylethyl)-4-methoxy- Not classifiable as a human carcinogen.

Aspiration toxicity

no data available

SECTION 12: Ecological information**12.1 Toxicity****Aquatic Compartment****Acute toxicity to fish**

Phenol, (1,1-dimethylethyl)-4-methoxy- LC50 - 24 h : 5.6 mg/l - *Oryzias latipes* (Orange-red killifish)
Toxic to fish.
Published data

Acute toxicity to daphnia and other aquatic invertebrates.

Phenol, (1,1-dimethylethyl)-4-methoxy- EC50 - 48 h : 2.56 mg/l - *Daphnia magna* (Water flea)
Method: OECD Test Guideline 202
Toxic to aquatic invertebrates.
Unpublished reports

12.2 Persistence and degradability

Biodegradation**Biodegradability**

Phenol, (1,1-dimethylethyl)-4-methoxy- Ready biodegradability study:
 Method: OECD Test Guideline 301 B
 1 % - 28 Days
 The substance does not fulfill the criteria for ready biodegradability and ultimate aerobic biodegradability
 Unpublished reports

12.3 Bioaccumulative potential**Bioconcentration factor (BCF)**

Phenol, (1,1-dimethylethyl)-4-methoxy- Not potentially bioaccumulable
 Structure-activity relationship (SAR)

12.4 Mobility in soil**Adsorption potential (Koc)**

Phenol, (1,1-dimethylethyl)-4-methoxy- Koc: 840.7

12.5 Results of PBT and vPvB assessment

Phenol, (1,1-dimethylethyl)-4-methoxy- This substance is not considered to be persistent, bioaccumulating, and toxic (PBT).
 This substance is not considered to be very persistent and very bioaccumulating (vPvB).

12.6 Other adverse effects

no data available

Ecotoxicity assessment**Acute aquatic toxicity**

Phenol, (1,1-dimethylethyl)-4-methoxy- Toxic to aquatic life.

Chronic aquatic toxicity

Phenol, (1,1-dimethylethyl)-4-methoxy- Toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Product Disposal**

- Chemical additions, processing or otherwise altering this material may make the waste management information presented in this SDS incomplete, inaccurate or otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material.
- Send to a licensed waste management company.

Prohibition

- Avoid release to the environment.

Waste Code

- RCRA Hazardous Waste (40 CFR 302)
- Hazardous Waste – NO

Advice on cleaning and disposal of packaging

- Dispose of in accordance with local regulations.

Measure for waste avoidance or recovery

- Do not dispose of the product at a dump.

SECTION 14: Transport information

Transportation status: IMPORTANT! Statements below provide additional data on listed transport classification.

The listed Transportation Classification does not address regulatory variations due to changes in package size, mode of shipment or other regulatory descriptors.

DOT

14.1 UN number	UN 3077
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S. (4-Methoxy-tert-butylphenol)
14.3 Transport hazard class	9
Label(s)	9
14.4 Packing group	
Packing group	III
ERG No	171
14.5 Environmental hazards	YES
Marine pollutant	

TDG

14.1 UN number	UN 3077
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (4-Methoxy-tert-butylphenol)
14.3 Transport hazard class	9
Label(s)	9
14.4 Packing group	
Packing group	III
ERG No	171
14.5 Environmental hazards	YES
Marine pollutant	

NOM

no data available

PRCO90067340

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IMDG

14.1 UN number	UN 3077
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (4-Methoxy-tert-butylphenol)
IMDG Code segregation group	Not Relevant
14.3 Transport hazard class	9
Label(s)	9
14.4 Packing group	
Packing group	III
14.5 Environmental hazards	YES
Marine pollutant	
14.6 Special precautions for user	
EmS	F-A , S-F
For personal protection see section 8.	

IATA

14.1 UN number	UN 3077
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (4-Methoxy-tert-butylphenol)
14.3 Transport hazard class	9
Label(s):	9
14.4 Packing group	
Packing group	III
Packing instruction (cargo aircraft)	956
Max net qty / pkg	400.00 kg
Packing instruction (passenger aircraft)	956
Max net qty / pkg	400.00 kg
14.5 Environmental hazards	YES
14.6 Special precautions for user	
For personal protection see section 8.	

Note: The above regulatory prescriptions are those valid on the date of publication of this sheet. Given the possible evolution of transportation regulations for hazardous materials, it would be advisable to check their validity with your sales office.

SECTION 15: Regulatory information**15.1 Notification status**

Inventory Information	Status
United States TSCA Inventory	- Listed on Inventory
Canadian Domestic Substances List (DSL)	- Listed on Inventory
Australia Inventory of Chemical Substances (AICS)	- Listed on Inventory
Japan. CSCL - Inventory of Existing and New Chemical Substances	- Listed on Inventory
Korea. Korean Existing Chemicals Inventory (KECI)	- Listed on Inventory
China. Inventory of Existing Chemical Substances in China (IECSC)	- Listed on Inventory
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	- Listed on Inventory

15.2 Federal Regulations**US. EPA EPCRA SARA Title III****SARA HAZARD DESIGNATION SECTIONS 311/312 (40 CFR 370)**

Fire Hazard	no
Reactivity Hazard	no
Sudden Release of Pressure Hazard	no
Acute Health Hazard	yes
Chronic Health Hazard	yes

Section 313 Toxic Chemicals (40 CFR 372.65)

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Section 302 Emergency Planning Extremely Hazardous Substance Threshold Planning Quantity (40 CFR 355)

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section 302 Emergency Planning Extremely Hazardous Substance Reportable Quantity (40 CFR 355)

Ingredients	CAS-No.	Reportable quantity
Hydroquinone	123-31-9	100 lb

Section 304 Emergency Release Notification Reportable Quantity (40 CFR 355)

Ingredients	CAS-No.	Reportable quantity
Hydroquinone	123-31-9	100 lb

US. EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302.4)

Ingredients	CAS-No.	Reportable quantity
Hydroquinone	123-31-9	100 lb

15.3 State Regulations**US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)**

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

Ingredients	CAS-No.
Phenol, (1,1-dimethylethyl)-4-methoxy-	25013-16-5

SECTION 16: Other information**NFPA (National Fire Protection Association) - Classification**

Health	2 moderate
Flammability	2 moderate
Instability or Reactivity	0 minimal

HMIS (Hazardous Materials Identification System (Paint & Coating)) - Classification

Health	2 moderate
Flammability	1 slight
Reactivity	0 minimal
PPE	Determined by User; dependent on local conditions

Further information

- This sheet was updated (refer to the date at the top of this page). Subheadings and text which have been modified since the previous version are indicated with two vertical bars.
- Product evaluated under the US GHS format.

Date Prepared: 01/12/2016

Key or legend to abbreviations and acronyms used in the safety data sheet

- PEL Permissible exposure limit (PEL)
- TWA Time weighted average
- ACGIH American Conference of Governmental Industrial Hygienists
- OSHA Occupational Safety and Health Administration
- NTP National Toxicology Program
- IARC International Agency for Research on Cancer
- NIOSH National Institute for Occupational Safety and Health

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. Such information is only given as a guidance to help the user handle, use, process, store, transport, dispose, and release the product in satisfactory safety conditions and is not to be considered as a warranty or quality specification. It should be used in conjunction with technical sheets but do not replace them. Thus, the information only relates to the designated specific product and may not be applicable if such product is used in combination with other materials or in any other manufacturing process, unless otherwise specifically indicated. It does not release the user from ensuring he is in conformity with all regulations linked to its activity.