

**SAFETY DATA SHEET****OPQ BLACK**Version Number 1.3  
Revision Date 04/05/2023Page 1 of 16  
Print Date 04/07/2023**SAFETY DATA SHEET****OPQ BLACK****Section 1. Identification**

**GHS product identifier** : OPQ BLACK  
**Chemical name** : Mixture  
**CAS number** : Mixture  
**Other means of identification** : CC01054217  
**Product type** : liquid

**Relevant identified uses of the substance or mixture and uses advised against**

**Product use** : Industrial applications. Plastics.

**Supplier's details** : **AVIENT CORPORATION**  
ColorMatrix Group Inc.  
680 North Rocky River Drive, Berea, Ohio, 44017-1628, USA  
  
+1 216 622 0100

**Emergency telephone number (with hours of operation)** : CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).

**Section 2. Hazards identification**

This mixture has not been evaluated as a whole for health effects. Information provided on health effects of this product is based on the individual components. However, some vapors or contaminants may be released upon heating and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure. See sections 8 and 11 for special precautions. After handling, always wash hands thoroughly with soap and water.

**OSHA/HCS status** : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

**Classification of the substance or mixture** : Not classified.

**GHS label elements**

**SAFETY DATA SHEET****OPQ BLACK**

Version Number 1.3  
Revision Date 04/05/2023

Page 2 of 16  
Print Date 04/07/2023

**Signal word** : No signal word.  
**Hazard statements** : No known significant effects or critical hazards.

**Precautionary statements**

**Prevention** : Not applicable.  
**Response** : Not applicable.  
**Storage** : Not applicable.  
**Disposal** : Not applicable.  
**Supplemental label elements** : None known.  
**Hazards not otherwise classified** : None known.  
Not available.

**Section 3. Composition/information on ingredients**

**Substance/mixture** : Mixture  
**Chemical name** : Mixture  
**Other means of identification** : CC01054217

**CAS number/other identifiers**

<b>Ingredient name</b>	<b>%</b>	<b>CAS number</b>
Diphenylamine	>= 1 - <= 3	122-39-4
Aniline	> 0 - <= 0.3	62-53-3

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.**

Occupational exposure limits, if available, are listed in Section 8.

**Section 4. First aid measures****Description of necessary first aid measures**

**Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

## SAFETY DATA SHEET

### OPQ BLACK

Version Number 1.3  
Revision Date 04/05/2023

Page 3 of 16  
Print Date 04/07/2023

- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- Ingestion** : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

#### Most important symptoms/effects, acute and delayed

##### Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

##### Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : No specific data.
- Ingestion** : No specific data.

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

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

##### Extinguishing media

- Suitable extinguishing media** : In case of fire, use water spray (fog), foam, dry chemical or CO<sub>2</sub>.

## SAFETY DATA SHEET

### OPQ BLACK

Version Number 1.3  
Revision Date 04/05/2023

Page 4 of 16  
Print Date 04/07/2023

- Unsuitable extinguishing media** : None known.
- Specific hazards arising from the chemical** : In a fire or if heated, a pressure increase will occur and the container may burst.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides
- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13).

# SAFETY DATA SHEET

## OPQ BLACK

Version Number 1.3  
 Revision Date 04/05/2023

Page 5 of 16  
 Print Date 04/07/2023

Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### Section 7. Handling and storage

**Precautions for safe handling**

- Protective measures** : Put on appropriate personal protective equipment (see Section 8).
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

### Section 8. Exposure controls/personal protection

**Control parameters**

**Occupational exposure limits**

Ingredient name	Exposure limits
Diphenylamine	<b>ACGIH TLV (1996-05-18)</b> TWA 10 mg/m <sup>3</sup> <b>NIOSH REL (1994-06-01)</b> TWA 10 mg/m <sup>3</sup> <b>OSHA PEL 1989 (1989-03-01)</b> TWA 10 ppm
Aniline	<b>OSHA PEL (1993-06-30) Absorbed through skin.</b> TWA 19 mg/m <sup>3</sup> 5 ppm <b>OSHA PEL 1989 (1989-03-01) Absorbed through skin.</b> TWA 8 mg/m <sup>3</sup> 2 ppm

## SAFETY DATA SHEET

### OPQ BLACK

Version Number 1.3  
Revision Date 04/05/2023

Page 6 of 16  
Print Date 04/07/2023

- Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### Individual protection measures

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

#### Skin protection

- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties

#### Appearance

- Physical state** : liquid [liquid]  
**Color** : BLACK

## SAFETY DATA SHEET

### OPQ BLACK

Version Number 1.3  
Revision Date 04/05/2023

Page 7 of 16  
Print Date 04/07/2023

<b>Odor</b>	: Faint odor.
<b>Odor threshold</b>	: Not available.
<b>pH</b>	: Not available.
<b>Melting point</b>	: Not available.
<b>Boiling point</b>	: Not available.
<b>Flash point</b>	: Not available.
<b>Burning time</b>	: Not available.
<b>Burning rate</b>	: Not available.
<b>Evaporation rate</b>	: Not available.
<b>Flammability (solid, gas)</b>	: Not available.
<b>Lower and upper explosive (flammable) limits</b>	: <b>Lower:</b> Not available. <b>Upper:</b> Not available.
<b>Vapor pressure</b>	: Not available.
<b>Vapor density</b>	: Not available.
<b>Relative density</b>	: Not available.
<b>Solubility</b>	: Not available.
<b>Solubility in water</b>	: insoluble in water.
<b>Partition coefficient: n-octanol/water</b>	: Not applicable.
<b>Auto-ignition temperature</b>	: Not available.
<b>Decomposition temperature</b>	: Not available.
<b>SADT</b>	: Not available.
<b>Viscosity</b>	: <b>Dynamic:</b> Not available. <b>Kinematic:</b> Not available.

### Section 10. Stability and reactivity

<b>Reactivity</b>	: No specific test data related to reactivity available for this product or its ingredients.
<b>Chemical stability</b>	: Stable under recommended storage and handling conditions (see Section 7).
<b>Possibility of hazardous reactions</b>	: Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	: Keep away from extreme heat and oxidizing agents.
<b>Incompatible materials</b>	: Keep away from strong acids. Oxidizer.
<b>Hazardous decomposition products</b>	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### Section 11. Toxicological information

#### Information on toxicological effects

##### Acute toxicity

**SAFETY DATA SHEET**

**OPQ BLACK**

Version Number 1.3  
 Revision Date 04/05/2023

Page 8 of 16  
 Print Date 04/07/2023

Product/ingredient name	Result	Species	Dose	Exposure
Benzenamine, N-phenyl-				
	LD50 Oral	Rat	1,120 mg/kg	-
	LD50 Dermal	Rabbit	5,000 mg/kg	-
Benzenamine				
	LD50 Oral	Rat	250 mg/kg	-
	LC50 Inhalation Gas.	Rat	250 ppm	1 h
	LD50 Dermal	Rat	1,400 mg/kg	-

**Conclusion/Summary** : Mixture.Not fully tested.

**Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
Benzenamine	Eyes - Moderate irritant	Rabbit	-	24 hrs	-
	Skin - Moderate irritant	Rabbit	-	24 hrs	-

**Conclusion/Summary**  
**Skin** : Mixture.Not fully tested.  
**Eyes** : Mixture.Not fully tested.  
**Respiratory** : Mixture.Not fully tested.

**Sensitization**

**Conclusion/Summary**  
**Skin** : Mixture.Not fully tested.  
**Respiratory** : Mixture.Not fully tested.

**Mutagenicity**

**Conclusion/Summary** : Mixture.Not fully tested.

**Carcinogenicity**

**Conclusion/Summary** : Mixture.Not fully tested.

**Classification**

Product/ingredient name	OSHA	IARC	NTP
Benzenamine, N-phenyl-	-	2B	-
Benzenamine	-	2A	-

**Reproductive toxicity**



**SAFETY DATA SHEET****OPQ BLACK**

Version Number 1.3  
Revision Date 04/05/2023

Page 9 of 16  
Print Date 04/07/2023

**Conclusion/Summary** : Mixture.Not fully tested.

**Teratogenicity**

**Conclusion/Summary** : Mixture.Not fully tested.

**Specific target organ toxicity (single exposure)**

Not available.

**Specific target organ toxicity (repeated exposure)**

Not available.

**Aspiration hazard**

Not available.

**Information on the likely routes of exposure** : Not available.

**Potential acute health effects**

**Eye contact** : No known significant effects or critical hazards.  
**Inhalation** : No known significant effects or critical hazards.  
**Skin contact** : No known significant effects or critical hazards.  
**Ingestion** : No known significant effects or critical hazards.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Eye contact** : No specific data.  
**Inhalation** : No specific data.  
**Skin contact** : No specific data.  
**Ingestion** : No specific data.

**Delayed and immediate effects and also chronic effects from short and long term exposure****Short term exposure**

**Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

**Long term exposure**

**Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

**Potential chronic health effects**

**Conclusion/Summary** : Mixture.Not fully tested.

# SAFETY DATA SHEET

## OPQ BLACK

Version Number 1.3  
Revision Date 04/05/2023

Page 10 of 16  
Print Date 04/07/2023

- General** : No known significant effects or critical hazards.
- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : No known significant effects or critical hazards. No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

Product/ingredient name	Oral	Dermal	Inhalation (gases)	Inhalation (vapors)	Inhalation (dusts and mists)
OPQ BLACK	90578.2 mg/kg	404367.2 mg/kg	N/A	N/A	N/A
Benzenamine, N-phenyl-	1120 mg/kg	5000 mg/kg	N/A	N/A	N/A
Benzenamine	250 mg/kg	1400 mg/kg	125 ppm	N/A	N/A

- Other information** : This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

## Section 12. Ecological information

### Toxicity

Product/ingredient name	Result	Species	Exposure
Benzenamine, N-phenyl-	Acute LC50 2.2 Mg/l Fresh water	Fish - Oncorhynchus mykiss	96 h
	Acute EC50 0.31 Mg/l Fresh water	Daphnia - Daphnia magna	48 h
Benzenamine	Acute LC50 7.6 Mg/l Fresh water	Fish - Carassius auratus	96 h
	Acute LC50 0.044 Mg/l Fresh water	Crustaceans - Ceriodaphnia dubia	48 h

# SAFETY DATA SHEET

## OPQ BLACK

Version Number 1.3  
Revision Date 04/05/2023

Page 11 of 16  
Print Date 04/07/2023

	Acute LC50 0.08 Mg/l Fresh water	Daphnia - Daphnia magna	48 h
	Acute EC50 175 Mg/l Fresh water	Algae - Chlorella pyrenoidosa	72 h
	Acute EC50 20 Mg/l Fresh water	Algae - Selenastrum sp.	96 h
	Chronic NOEC 90 Mg/l Fresh water	Algae - Chlorella pyrenoidosa	72 h
	Chronic NOEC 0.422 Mg/l Fresh water	Fish - Pimephales promelas	32 d
	Chronic NOEC 0.016 mg/l Fresh water	Daphnia - Daphnia magna	21 d
	Chronic NOEC 0.004 Mg/l Fresh water	Daphnia - Daphnia magna	21 d
<b>OPQ BLACK</b>			
<b>Remarks - Acute - Aquatic invertebrates.:</b>	Dangerous for the environment: May cause long term adverse effects in the aquatic environment.		

**Conclusion/Summary** : Dangerous for the environment: May cause long term adverse effects in the aquatic environment.

### Persistence and degradability

**Conclusion/Summary** : Not available.

**Conclusion/Summary** : Dangerous for the environment: May cause long term adverse effects in the aquatic environment.

### Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Benzenamine, N-phenyl-	3.5	151.36	low
Benzenamine	0.91	2.60	low

### Mobility in soil

**Soil/water partition coefficient (KOC)** : Not available.

**Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever

**SAFETY DATA SHEET**

**OPQ BLACK**

Version Number 1.3  
 Revision Date 04/05/2023

Page 12 of 16  
 Print Date 04/07/2023

possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**United States - RCRA Acute hazardous waste "P" List:** Not listed

**United States - RCRA Toxic hazardous waste "U" List:** Not listed

**Section 14. Transport information**

- U.S.DOT 49CFR Ground/Air/Water : Not regulated for transportation.
- International Air ICAO/IATA : Not classified as dangerous goods under transport regulations.
- International Water IMO/IMDG : Not classified as dangerous goods under transport regulations.

**Section 15. Regulatory information**

- U.S. Federal regulations :
  - United States - TSCA 12(b) - Chemical export notification:** None of the components are listed.
  - United States - TSCA 4(a) - Final Test Rules:** Not listed
  - United States - TSCA 4(a) - ITC Priority list:** Not listed
  - United States - TSCA 4(a) - Proposed test rules:** Not listed
  - United States - TSCA 4(f) - Priority risk review:** Not listed
  - United States - TSCA 5(a)2 - Final significant new use rules:** Not listed
  - United States - TSCA 5(a)2 - Proposed significant new use rules:** Not listed
  - United States - TSCA 5(e) - Substances consent order:** Not listed
  - United States - TSCA 6 - Final risk management:** Not listed
  - United States - TSCA 6 - Proposed risk management:** Not listed
  - United States - TSCA 8(a) - Chemical risk rules:** Not listed

**SAFETY DATA SHEET**

**OPQ BLACK**

Version Number 1.3  
 Revision Date 04/05/2023

Page 13 of 16  
 Print Date 04/07/2023

**United States - TSCA 8(a) - Dioxin/Furane precursor:** Not listed  
**United States - TSCA 8(a) - Chemical Data Reporting (CDR):** Not determined  
**United States - TSCA 8(a) - Preliminary assessment report (PAIR):** Listed **Diphenylamine**

**United States - TSCA 8(c) - Significant adverse reaction (SAR):** Not listed  
**United States - TSCA 8(d) - Health and safety studies:** Not listed  
**United States - EPA Clean water act (CWA) section 307 - Priority pollutants:** Not listed  
**United States - EPA Clean water act (CWA) section 311 - Hazardous substances:** Listed  
**United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Flammable substances:** Not listed  
**United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Toxic substances:** Not listed  
**United States - Department of commerce - Precursor chemical:** Not listed

**Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)** : Listed  
**Clean Air Act Section 602 Class I Substances** : Not listed  
**Clean Air Act Section 602 Class II Substances** : Not listed  
**DEA List I Chemicals (Precursor Chemicals)** : Not listed  
**DEA List II Chemicals (Essential Chemicals)** : Not listed

**US. EPA CERCLA Hazardous Substances (40 CFR 302)**

not applicable

**SARA 311/312**

**Classification** : Not applicable.

**Composition/information on ingredients**

No products were found.

Name	%	Classification
Benzenamine, N-phenyl-	>= 1 - <= 3	ACUTE TOXICITY - oral - Category 4 CARCINOGENICITY - Category 2
Benzenamine	> 0 - <= 0.3	FLAMMABLE LIQUIDS - Category 4

**SAFETY DATA SHEET**

**OPQ BLACK**

Version Number 1.3  
 Revision Date 04/05/2023

Page 14 of 16  
 Print Date 04/07/2023

		ACUTE TOXICITY - oral - Category 3 ACUTE TOXICITY - dermal - Category 4 ACUTE TOXICITY - inhalation - Category 2 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 1B
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**SARA 313**

**Form R - Reporting requirements**


Product name	CAS number	%
Diphenylamine	122-39-4	>= 0.5 - < 1.5

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

**State regulations**

- Massachusetts** : The following components are listed:  
Diphenylamine
- New York** : None of the components are listed.
- New Jersey** : The following components are listed:  
Diphenylamine  
Aniline
- Pennsylvania** : The following components are listed:  
Diphenylamine

**California Prop. 65**

 **WARNING:** This product can expose you to Aniline, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Ingredient name	No significant risk level	Maximum acceptable dosage level
Aniline	Yes.	-

**United States inventory (TSCA 8b)** : All components are active or exempted.

**Canada inventory** : All components are listed or exempted.

**International regulations**

**Inventory list**

**SAFETY DATA SHEET**

**OPQ BLACK**

Version Number 1.3  
 Revision Date 04/05/2023

Page 15 of 16  
 Print Date 04/07/2023

- Australia : Not determined.
- Canada : All components are listed or exempted.
- China : All components are listed or exempted.
- Eurasian Economic Union : **Russian Federation inventory:** Not determined.
- Japan : **Japan inventory (CSCL):** Not determined.  
**Japan inventory (ISHL):** Not determined.
- New Zealand : All components are listed or exempted.
- Philippines : All components are listed or exempted.
- Republic of Korea : All components are listed or exempted.
- Taiwan : Not determined. All components are listed or exempted.
- Thailand : Not determined.
- Turkey : Not determined.
- United States : All components are active or exempted.
- Viet Nam : Not determined.

**Section 16. Other information**

Hazardous Material Information System (U.S.A.)

Health	/	0
Flammability		0
Physical hazards		0

**Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.**

**The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.**

History

- Date of printing : 04/07/2023
- Date of issue/Date of revision : 04/05/2023
- Date of previous issue : 05/21/2019
- Version : 1.3

**Key to abbreviations**

- ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- IATA = International Air Transport Association
- IBC = Intermediate Bulk Container
- IMDG = International Maritime Dangerous Goods
- LogPow = logarithm of the octanol/water partition coefficient
- MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

## SAFETY DATA SHEET

### OPQ BLACK

Version Number 1.3  
Revision Date 04/05/2023

Page 16 of 16  
Print Date 04/07/2023

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**References** UN = United Nations  
: Not available.

#### Notice to reader

**To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Particularly this information may not be valid for such material used in conjunction with any other materials or in any process, unless specified in the text.**