TPE/BLACK/OPQ

Version Number 1.1 Revision Date 01/29/2018

ne

Page 1 of 16 Print Date 01/30/2018

SAFETY DATA SHEET

TPE/BLACK/OPQ

Section 1. Identification		
GHS product identifier Chemical name CAS number Other means of identification Product type	: : : : :	TPE/BLACK/OPQ Mixture Mixture CC10259617 liquid
<u>Relevant identified uses of the subst</u> Product use	ance :	e or mixture and uses advised against Industrial applications. Plastics.
Supplier's details	:	POLYONE 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	:	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	:	ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2
		Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 9.8 %

GHS label elements

TPE/BLACK/OPQ

Version Number 1.1 Revision Date 01/29/2018



Page 2 of 16 Print Date 01/30/2018

Hazard pictograms	:	<u>(!)</u>
Signal word Hazard statements	:	Warning Harmful if inhaled. Causes skin irritation.
Precautionary statements		
General Prevention Response	:	Not applicable. Wear protective gloves. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Wash hands thoroughly after handling. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical attention.
Storage Disposal Supplemental label elements Hazards not otherwise classified	:	Not applicable. Not applicable. None known. None known.

Section 3. Composition/information on ingredients

Substance/mixture	:	Mixture
Chemical name	:	Mixture
Other means of identification	:	CC10259617

CAS number/other identifiers

Ingredient name	%	CAS number
Carbon black	50 - 75	1333-86-4
Miscellaneous Compounds Distillates, petroleum, hydrotreated middle	25 - 50	Not available.

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



TPE/BLACK/OPQ

Version Number 1.1 Revision Date 01/29/2018 Page 3 of 16 Print Date 01/30/2018

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. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	:	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

TPE/BLACK/OPQ

Version Number 1.1 Revision Date 01/29/2018



Page 4 of 16 Print Date 01/30/2018

Eye contact Inhalation Skin contact Ingestion	::	No known significant effects or critical hazards. Harmful if inhaled. Causes skin irritation. No known significant effects or critical hazards.
Over-exposure signs/symptoms		
Eye contact	:	Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	:	No specific data.
Skin contact	:	Adverse symptoms may include the following: irritation redness
Ingestion	:	No specific data.
Indication of immediate medical atte	ntio	n and special treatment needed, if necessary
Notes to physician	:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	:	No specific treatment.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Suitable extinguishing media Unsuitable extinguishing media	:	In case of fire, use water spray (fog), foam, dry chemical or $\rm CO_2$. None known.
Specific hazards arising from the chemical Hazardous thermal decomposition products	:	In a fire or if heated, a pressure increase will occur and the container may burst. Decomposition products may include the following materials: carbon dioxide carbon monoxide

TPE/BLACK/OPQ



Version Number 1.1 Revision Date 01/29/2018	Page 5 of 16 Print Date 01/30/2018
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 For emergency responders	:	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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. 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	nt aı	nd 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. Approach release from upwind. 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). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

TPE/BLACK/OPQ

Version Number 1.1 Revision Date 01/29/2018



Page 6 of 16 Print Date 01/30/2018

Section 7. Handling and storage

Precautions for safe handling

Protective measures Advice on general occupational hygiene	:	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. 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
Carbon black	OSHA PEL 1989 (1989-03-01)
	PEL: Permissible Exposure Level 3.5 mg/m3
	OSHA PEL (1993-06-30)
	PEL: Permissible Exposure Level 3.5 mg/m3
	NIOSH REL (1994-06-01)
	Time Weighted Average (TWA) 3.5 mg/m3
	Time Weighted Average (TWA)
	ACGIH TLV (2010-12-06)
	TLV-TWA: Threshold Limit Value - Time weighted average PEL:
	Permissible Exposure Level 3 mg/m3 Form: Inhalable fraction

TPE/BLACK/OPQ

Version Number 1.1 Revision Date 01/29/2018

Dama 7 of 1

Page 7 of 16 Print Date 01/30/2018

Miscellaneous Compounds Distillates, petroleum, hydrotreated middle	
Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
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: chemical splash goggles.
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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
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
	7/16



TPE/BLACK/OPQ

Version Number 1.1 Revision Date 01/29/2018 Page 8 of 16 Print Date 01/30/2018

vOne

Respiratory protection

product.

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
Color	:	BLACK
Odor	:	Faint odor.
Odor threshold	:	Not available.
рН	:	Not available.
Melting point	:	Not available.
Boiling point	:	Not available.
Flash point	:	Not available.
Burning time	:	Not available.
Burning rate	:	Not available.
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Not available.
Lower and upper explosive	:	Lower: Not available.
(flammable) limits		Upper: Not available.
Vapor pressure	:	Not available.
Vapor density	:	Not available.
Relative density	:	Not available.
Solubility	:	Not available.
Solubility in water	:	insoluble in water.
Partition coefficient: n- octanol/water	:	Not available.
		Not available.
Auto-ignition temperature Decomposition temperature		Not available.
SADT		Not available.
Viscosity		Dynamic: Not available.
v iscusity	•	Kinematic: Not available.
		isincinatic. INOL available.

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: Stable under recommended storage and handling conditions (see Section 7).



TPE/BLACK/OPQ

Version Number 1.1	Page 9 of 16
Revision Date 01/29/2018	Print Date 01/30/2018

Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	:	Keep away from extreme heat and oxidizing agents.
Incompatible materials	:	Keep away from strong acids. Oxidizer.
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological 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.

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result		Species	Dose	Exposure
Remarks - Oral:	No applica	ble toxi	icity data	•	·
Remarks - Inhalation:	No applica	ble toxi	icity data		
Remarks - Dermal:	No applica	ble toxi	icity data		
Carbon black			•		
	LD50 Ora	1	Rat	15,400 mg/kg	-
Remarks - Inhalation:	No applica	ble toxi	icity data		
Remarks - Dermal:	No applica	ble toxi	icity data		
Conclusion/Summary	:	Mixtu	ure.Not fully tested.		
Conclusion/Summary Skin Eyes Respiratory <u>Sensitization</u>	::	Mixtu	ure.Not fully tested. ure.Not fully tested. ure.Not fully tested.		
Conclusion/Summary Skin Respiratory <u>Mutagenicity</u>	:		ure.Not fully tested. ure.Not fully tested.		
Conclusion/Summary	:	Mixtu	ure.Not fully tested.		



TPE/BLACK/OPQ

Version Number 1.1 Revision Date 01/29/2018 Page 10 of 16 Print Date 01/30/2018

Carcinogenicity

Conclusion/Summary <u>Classification</u>	:	Mixture.Not f	ully tested.		
Product/ingredient name	OSHA	IARC	NTP		
Carbon black		2B			
<u>Reproductive toxicity</u>					
Conclusion/Summary	:	Mixture.Not f	ully tested.		
Teratogenicity					
Conclusion/Summary	:	Mixture.Not f	ully tested.		
Specific target organ toxicit Not available.	y (single exp	<u>osure)</u>			
<u>Specific target organ toxicit</u> Not available.	y (repeated e	exposure)			
Aspiration hazard			Decult		
Product/ingredient nameResultMiscellaneous Compounds Distillates, petroleum,ASPIRATION HAZARD - Category 1					
hydrotreated middle	stillates, peut	, jicum,			
Information on likely routes of : Not available. exposure					
Potential acute health effects	<u>8</u>				
Eye contact	:	No known sig	nificant effects or critical hazards.		
Inhalation	:	Harmful if inh	aled.		
Skin contact	:	Causes skin irritation.			
Ingestion	:	No known significant effects or critical hazards.			
Symptoms related to the phy	Symptoms related to the physical, chemical and toxicological characteristics				
Eye contact	:	Adverse symptoms may include the following: pain or irritation watering			
T I I /		redness			
Inhalation	:	No specific da			
Skin contact	: Adverse symptoms may include the following:				
		10/			

10/16

TPE/BLACK/OPQ

Version Number 1.1 Revision Date 01/29/2018 PolyOne

Page 11 of 16 Print Date 01/30/2018

	irritation
	redness
:	No specific data.
well as	s chronic effects from short and long-term exposure
:	Not available.
:	Not available.
:	Not available.
:	Not available.
:	Mixture.Not fully tested.
:	No known significant effects or critical hazards.
:	No known significant effects or critical hazards.
:	No known significant effects or critical hazards.
:	No known significant effects or critical hazards.
:	No known significant effects or critical hazards.
:	No known significant effects or critical hazards.
	well as : : : : :

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Dermal	95,238.1 mg/kg
Route	ATE value
Inhalation (dusts and mists)	4.286 mg/l

Section 12. Ecological information

Toxicity

Product/ingredient name Result		Species	Exposure
Miscellaneous Compounds Distillates, petroleum, hydrotreated middle			
Remarks - Acute - Fish: No applicable toxicity data			
11/16			



TPE/BLACK/OPQ

Version Number 1.1 Revision Date 01/29/2018 Page 12 of 16 Print Date 01/30/2018

Remarks - Acute - Aquatic	No applicable toxicity data		
invertebrates.:			
Remarks - Acute - Aquatic	No applicable toxicity data		
plants:			
Remarks - Chronic - Fish:	No applicable toxicity data		
Remarks - Chronic -	No applicable toxicity data		
Aquatic invertebrates.:			
Carbon black			
Remarks - Acute - Fish:	No applicable toxicity data		
	Acute EC50 37.563 Mg/l Fresh	Aquatic invertebrates.	48 h
	water	Daphnia	
Remarks - Acute - Aquatic	Acute		
invertebrates.:			
Remarks - Acute - Aquatic	No applicable toxicity data		
plants:			
Remarks - Chronic - Fish:	No applicable toxicity data		
Remarks - Chronic -	No applicable toxicity data		
Aquatic invertebrates.:			
Conclusion/Summary	: Not available.		
Persistence and degradability	<u>v</u>		
Conclusion/Summary	: Not available.		
Bioaccumulative potential Not available.			

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
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

TPE/BLACK/OPQ

Version Number 1.1 Revision Date 01/29/2018

olvOne

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. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. 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
		United States - TSCA 8(a) - Dioxin/Furane precusor: Not listed
		-

TPE/BLACK/OPQ



Version Number 1.1 Revision Date 01/29/2018		Page 14 of 16 Print Date 01/30/2018
		United States - TSCA 8(a) - Chemical Data Reporting (CDR): Not determined United States - TSCA 8(a) - Preliminary assessment report (PAIR): Not listed 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: Not 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 - 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) 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	:	Not listed

US. EPA CERCLA Hazardous Substances (40 CFR 302)

:

not applicable

SARA 311/312

Chemicals)

Classification

Immediate (acute) health hazard

Composition/information on ingredients

Name	%	Classification
Miscellaneous Compounds	25 - 50	AH
Distillates, petroleum,		
hydrotreated middle		
Carbon black	50 - 75	СН

TPE/BLACK/OPQ

SARA 313 Not applicable. <u>PolyOne</u>

Version Number 1.1 Revision Date 01/29/2018

Page 15 of 16 Print Date 01/30/2018

<u>State regulations</u> Massachusetts New York New Jersey Pennsylvania	:	None of the components are listed. None of the components are listed. The following components are listed: Distillates, petroleum, hydrotreated heavy paraffinic Carbon black The following components are listed: Carbon black
<u>California Prop. 65</u> WARNING: This product contains a cl	hemi	ical known to the State of California to cause cancer.
United States inventory (TSCA 8b)	:	All components are listed or exempted.
Canada inventory	:	All components are listed or exempted.
International regulations		
<u>Inventory list</u>		
Australia	:	All components are listed or exempted.
Canada	:	All components are listed or exempted.
China	:	All components are listed or exempted.
Europe inventory	:	Not determined.
Japan	:	Not determined.
New Zealand	:	All components are listed or exempted.
Philippines Donublic of Vorce	:	All components are listed or exempted.
Republic of Korea Taiwan		All components are listed or exempted. Not determined.
Turkey	:	Not determined.
United States	:	All components are listed or exempted.

Section 16. Other information

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

Health	/	2
Flammability		0
Physical hazards		0

TPE/BLACK/OPQ

Version Number 1.1 Revision Date 01/29/2018 Page 16 of 16 Print Date 01/30/2018

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

Histor		
Date of printing	:	01/30/2018
Date of issue/Date of revision	:	01/29/2018
Date of previous issue	:	03/29/2017
Version	:	1.1
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)
		UN = United Nations
References	:	Not available.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed 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.