## **ISSEY GOLD D.UNL**

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# SAFETY DATA SHEET

#### **ISSEY GOLD D.UNL**

Section 1. Identification	on	
GHS product identifier Chemical name CAS number Other means of identification Product type	:	ISSEY GOLD D .UNL Mixture Mixture CC01053937 liquid
<u>Relevant identified uses of the subs</u> Product use	tance :	e or mixture and uses advised against Industrial applications. Plastics.
Supplier's details	:	<b>POLYONE CORPORATION</b> 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

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Signal word	:	No signal word.
Hazard statements	:	No known significant effects or critical hazards.
Precautionary statements		
General	:	Not applicable.
Prevention	:	Not applicable.
Response	:	Not applicable.
Storage	:	Not applicable.
Disposal	:	Not applicable.
Supplemental label elements	:	None known.
Hazards not otherwise classified	:	None known.

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# Section 3. Composition/information on ingredients

Substance/mixture	:	Mixture
Chemical name	:	Mixture
Other means of identification	:	CC01053937

#### CAS number/other identifiers

Ingredient name	%	CAS number
Titanium dioxide	10 - 25	13463-67-7
Silica, amorphous	1 - 3	7631-86-9
Carbon black	0 - 0.3	1333-86-4

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



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#### 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.
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. 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. 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 atte	entio	n 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

See toxicological information (Section 11)

suitable training.

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# **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 nitrogen oxides halogenated compounds metal oxide/oxides
Special protective actions for fire- fighters Special protective equipment for	:	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. Fire-fighters should wear appropriate protective equipment and self-
fire-fighters		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. 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 and cleaning up		
Small spill	:	Stop leak if without risk. Move containers from spill area. Dilute with

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	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.

: 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). 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

Large spill

Protective measures Advice on general occupational hygiene	:	Put on appropriate personal protective equipment (see Section 8). 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)

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	TWA 3.5 mg/m3 OSHA PEL (1993-06-30) TWA 3.5 mg/m3 NIOSH REL (1994-06-01) TWA 3.5 mg/m3 TWA 0.1 mgPAH/m <sup>3</sup> ACGIH TLV (2010-12-06) TWA 3 mg/m3 Form: Inhalable fraction
Silica, amorphous	<b>NIOSH REL (1994-06-01)</b> TWA 6 mg/m3
Titanium dioxide	OSHA PEL 1989 (1989-03-01) TWA 10 mg/m3 Form: Total dust OSHA PEL (1993-06-30) TWA 15 mg/m3 Form: Total dust ACGIH TLV (1996-05-18) TWA 10 mg/m3
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.
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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		GOLD
Odor	- <u>-</u>	Faint odor.
Odor threshold	- ÷	Not available.
pH		Not available.
Melting point	- <u>-</u>	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-	:	Not available.
octanol/water		
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
SADT	:	Not available.
Viscosity	:	Dynamic: Not available.
-		Kinematic: Not available.



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# 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).
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		
Carbon black						
	LD50 Oral	-				
<b>Remarks - Inhalation:</b>	No applicable toxicity data					
<b>Remarks - Dermal:</b>	No applicable toxicity data					
Silica, amorphous						
Remarks - Oral:	No applicable toxicity data					
<b>Remarks - Inhalation:</b>	No applicable toxicity data					
<b>Remarks - Dermal:</b>	No applicable toxicity data					
Titanium dioxide						
Remarks - Oral:	No applicable toxicity data					
	LC50 Inhalation	Rat - Male	6.82 Mg/l	4 h		
	LD50 Dermal	Rabbit	> 5,000 mg/kg	-		
Conclusion/Summany	Mintu	ra Not fully tostad	1			

Conclusion/Summary

: Mixture.Not fully tested.

#### Irritation/Corrosion

Product/ingredient name Res	sult Species	Score	Exposure	Observation
Silica, amorphous Eye irrit	es - Mild Rabbit tant		24 hrs	-



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Titanium dioxide	Skin - Mild	Human		72 hrs	-	
	irritant					
<b>Conclusion/Summary</b>						
Skin	: Mixture.Not fully tested.					
Eyes	: M	ixture.Not full	y tested.			
Respiratory	: M	ixture.Not full	y tested.			
<b>Sensitization</b>						
<b>Conclusion/Summary</b>						
Skin	: M	ixture.Not full	v tested.			
Respiratory		ixture.Not full				
yy	•		,			
<u>Mutagenicity</u>						
Conclusion/Summary	: M	ixture.Not full	y tested.			
<b>Carcinogenicity</b>						
Conductor/Summar-	N.	wture Not fall	v tostad			
Conclusion/Summary Classification	: M	ixture.Not full	y tested.			
Product/ingredient	OSHA	IARC	NTP			
0	USHA	IARC				
name		20				
Carbon black		2B				
Silica, amorphous		3				
Titanium dioxide		2B				
Reproductive toxicity						
Conclusion/Summary : Mixture.Not fully tested.						
<u>Teratogenicity</u>						
Conclusion/Summary : Mixture.Not fully tested.						
<u>Specific target organ toxicity (single exposure)</u> Not available.						
Specific target organ toxicity Not available.	v (repeated expo	<u>sure)</u>				
Aspiration hazard Not available.						
Information on likely routes	of : No	ot available.				

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#### exposure

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 as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate effects	: Not availa	ble.
Potential delayed effects	: Not availa	ble.

Long term exposure

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

:

:

Potential chronic health effects

Conclusion/Summary

General	
Carcinogenicity	
Mutagenicity	
Teratogenicity	
<b>Developmental effects</b>	
Fertility effects	

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.

: No known significant effects or critical hazards.

#### Numerical measures of toxicity

#### Acute toxicity estimates

Not available.

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# Section 12. Ecological information

**Toxicity** 

Product/ingredient name	Result	Species	Exposure
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.:			
Silica, amorphous			
Remarks - Acute - Fish:	No applicable toxicity data		
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.:			
Titanium dioxide			-
	Acute LC50 > 1,000 Mg/l Marine	Fish - Fish	96 h
	water		
<b>Remarks - Acute - Fish:</b>	Acute		-
	Acute LC50 3 Mg/l Fresh water	Aquatic invertebrates.	48 h
		Crustaceans	
Remarks - Acute - Aquatic	Acute		
invertebrates.:		1	
	Acute LC50 6.5 Mg/l Fresh water	Aquatic invertebrates.	48 h
		Daphnia	
Remarks - Acute - Aquatic	Acute		
invertebrates.:			
Remarks - Acute - Aquatic	No applicable toxicity data		
plants:	No construction data		
Remarks - Chronic - Fish:	No applicable toxicity data		
Remarks - Chronic -	No applicable toxicity data		

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Aquatic invertebrates.:		
Conclusion/Summary	:	Not available.
Persistence and degradability		
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 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.



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 International Air
 : Not classified as dangerous goods under transport regulations.

 ICAO/IATA
 : Not classified as dangerous goods under transport regulations.

 International Water
 : Not classified as dangerous goods under transport regulations.

 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 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) - Chemical risk rules: Not listed 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 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 - Flammable substances: Not listed United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Flammable substances: Not listed United States - Department of commerce - Precursor chemical: Not listed
Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	:	Not listed

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Clean Air Act Section 602 Class I	:	Not listed
Substances Clean Air Act Section 602 Class II		Not listed
Substances		
DEA List I Chemicals (Precursor Chemicals)	:	Not listed
DEA List II Chemicals (Essential	:	Not listed
Chemicals)		

#### 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
Carbon black	> 0 - <= 0.3	CARCINOGENICITY - Category 2
Silica, amorphous	>= 1 - <= 3	EYE IRRITATION - Category 2B
Titanium dioxide	>= 10 - <= 25	CARCINOGENICITY - Category 2

SARA 313 Not applicable.

#### **State regulations**

Massachusetts	:	None of the components are listed.
New York	:	None of the components are listed.
New Jersey	:	The following components are listed:
		Carbon black
		Titanium dioxide
Pennsylvania	:	The following components are listed:
		Carbon black
		Silica, amorphous
		Titanium dioxide

#### California Prop. 65



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**WARNING:** This product can expose you to chemicals including Carbon black, Titanium dioxide, which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Ingredient name	No significant risk level	Maximum acceptable dosage level
Titanium dioxide	No.	No.
Carbon black	No.	No.

Canada inventory:All components are listed or exempted.International regulationsInventory listAustralia:All components are listed or exempted.Canada:All components are listed or exempted.Canada:All components are listed or exempted.China:All components are listed or exempted.Europe inventory:All components are listed or exempted.Japan:Not determined.New Zealand:All components are listed or exempted.Philippines:All components are listed or exempted.Taiwan:All components are listed or exempted.Turkey:All components are listed or exempted.United States:All components are listed or exempted.	United States inventory (TSCA 8b)	:	All components are listed or exempted.
Inventory listAustralia:All components are listed or exempted.Canada:All components are listed or exempted.China:All components are listed or exempted.Europe inventory:All components are listed or exempted.Japan: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:All components are listed or exempted.Turkey:Not determined.	Canada inventory	:	All components are listed or exempted.
Australia:All components are listed or exempted.Canada:All components are listed or exempted.China:All components are listed or exempted.Europe inventory:All components are listed or exempted.Japan: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:All components are listed or exempted.Turkey:Not determined.	International regulations		
Canada:All components are listed or exempted.China:All components are listed or exempted.Europe inventory:All components are listed or exempted.Japan: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:All components are listed or exempted.Turkey:Not determined.	Inventory list		
China:All components are listed or exempted.Europe inventory:All components are listed or exempted.Japan: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:All components are listed or exempted.Turkey:Not determined.	Australia	:	All components are listed or exempted.
Europe inventory:All components are listed or exempted.Japan: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:All components are listed or exempted.Turkey:Not determined.	Canada	:	All components are listed or exempted.
Japan: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:All components are listed or exempted.Turkey:Not determined.	China	:	All components are listed or exempted.
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:All components are listed or exempted.Turkey:Not determined.	Europe inventory	:	All components are listed or exempted.
Philippines:All components are listed or exempted.Republic of Korea:All components are listed or exempted.Taiwan:All components are listed or exempted.Turkey:Not determined.	Japan	:	Not determined.
Republic of Korea:All components are listed or exempted.Taiwan:All components are listed or exempted.Turkey:Not determined.	New Zealand	:	All components are listed or exempted.
Taiwan:All components are listed or exempted.Turkey:Not determined.	Philippines	:	All components are listed or exempted.
Turkey : Not determined.	Republic of Korea	:	All components are listed or exempted.
	Taiwan	:	All components are listed or exempted.
United States : All components are listed or exempted.	Turkey	:	Not determined.
	United States	:	All components are listed or exempted.

## **Section 16. Other information**

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



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

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<b>HMIS®</b> Personal Protective Equipm	nent (	(PPE) codes, consult the HMIS® Implementation Manual.
History		
Date of printing	:	02/28/2019
Date of issue/Date of revision	:	02/27/2019
Date of previous issue	:	01/25/2017
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 = International Air Transport Association IBC = 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 Not available
References	:	Not available.

#### Notice to reader

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