### YELLOW OPTIMA LASER MARK

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# SAFETY DATA SHEET

#### **YELLOW OPTIMA LASER MARK**

Section 1. Identification		
GHS product identifier Chemical name CAS number	:	YELLOW OPTIMA LASER MARK Mixture Mixture
Other means of identification Product type	:	CC10260177 solid
<u>Relevant identified uses of the subs</u> Product use	stance :	e or mixture and uses advised against Industrial applications. Plastics.
Supplier's details	:	<b>POLYONE CORPORATION</b> 33587 Walker Road, Avon Lake, OH 44012 1 (440) 930-1000 or 1 (866) POLYONE
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. Information provided on the health effects of this product is based on individual components. All ingredients are bound and potential for hazardous exposure as shipped is minimal. However, some vapors 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. 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		
Signal word	:	No signal word.
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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.

# Section 3. Composition/information on ingredients

:

Substance/mixture	:	Mixture
Chemical name	:	Mixture
Other means of identification	:	CC10260177

CAS number/other identifiers

Ingredient name	%	CAS number
Antimony trioxide	30 - 60	1309-64-4
Titanium dioxide	1 - 5	13463-67-7

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.

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		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 Inhalation Skin contact Ingestion Over-exposure signs/symptoms	<ul> <li>No known significant effects or critical hazards.</li> </ul>	
Eye contact	No specific data.	
Inhalation	No specific data.	
Skin contact	No specific data.	
Ingestion	No specific data.	
Indication of immediate medical at	tion and special treatment needed, if necessary	
Notes to physician	In case of inhalation of decomposition products in a fire, symp may be delayed. The exposed person may need to be kept unde 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.	t

See toxicological information (Section 11)

# Section 5. Firefighting measures



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#### **Extinguishing media**

Suitable extinguishing media Unsuitable extinguishing media	:	In case of fire, use water spray (fog), foam, dry chemical or $CO_2$ . None known.
Specific hazards arising from the chemical	:	No specific fire or explosion hazard.
Hazardous thermal decomposition products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/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 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	:	Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material
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and place in a designated, labeled waste container. 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 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
Titanium dioxide	OSHA PEL 1989 (1989-03-01)
	PEL: Permissible Exposure Level 10 mg/m3 Form: Total dust
	OSHA PEL (1993-06-30)
	PEL: Permissible Exposure Level 15 mg/m3 Form: Total dust
	NIOSH REL (1994-06-01)
	ACGIH TLV (1996-05-18) TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level 10 mg/m3

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Antimony trioxide		OSHA PEL (1993-06-30) as Sb PEL: Permissible Exposure Level 0.5 mg/m3 NIOSH REL (1994-06-01) as Sb Time Weighted Average (TWA) 0.5 mg/m3 OSHA PEL 1989 (1989-03-01) as Sb PEL: Permissible Exposure Level 0.5 mg/m3 ACGIH TLV (1994-09-01)
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 Eye/face protection	:	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. 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 6/16

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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

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) limitsUpper: Not available.Vapor pressure:Not available.Vapor density:Not available.Solubility:Not available.Solubility in water:Not available.			
Odor:Faint odor.Odor threshold:Not available.pH: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) limitsUpper: Not available.Vapor pressure:Not available.Vapor density:Not available.Solubility:Not available.Solubility in water:insoluble in water.Partition coefficient: n- octanol/water:Not available.Auto-ignition temperature:Not available.SADT:Not available.Viscosity:Dynamic: Not available.			
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Flammability (solid, gas):Not available.Lower and upper explosive:Lower: Not available.(flammable) limitsUpper: Not available.Vapor pressure:Not available.Vapor density:Not available.Relative density:Not available.Solubility:Not available.Solubility in water:Not available.Partition coefficient: n- octanol/water:Not available.Auto-ignition temperature:Not available.Decomposition temperature:Not available.SADT:Not available.Viscosity:Dynamic: Not available.	Burning rate	:	Not available.
Lower and upper explosive (flammable) limits:Lower: Not available.(flammable) limitsUpper: 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.Auto-ignition temperature SADT:Not available.SADT:Not available.Viscosity:Dynamic: Not available.	Evaporation rate	:	Not available.
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(flammable) limitsUpper: 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.Auto-ignition temperature: Not available.Decomposition temperature: Not available.SADT: Not available.Viscosity: Dynamic: Not available.	Lower and upper explosive	:	Lower: Not available.
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Partition coefficient: n- octanol/water:Not available.Auto-ignition temperature Decomposition temperature SADT:Not available.SADT 	Solubility	:	Not available.
octanol/waterImage: Not available.Auto-ignition temperatureImage: Not available.Decomposition temperatureImage: Not available.SADTImage: Not available.ViscosityImage: Dynamic: Not available.	Solubility in water	:	insoluble in water.
Decomposition temperature:Not available.SADT:Not available.Viscosity:Dynamic: Not available.	Partition coefficient: n- octanol/water	:	Not available.
Decomposition temperature:Not available.SADT:Not available.Viscosity:Dynamic: Not available.	Auto-ignition temperature	:	Not available.
SADT:Not available.Viscosity:Dynamic: Not available.	-	:	Not available.
•		:	Not available.
•	Viscosity		<b>Dynamic:</b> 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.

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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
Titanium dioxide				
	LC50 Inhalation	Rat - Male	6.82 Mg/l	4 h
	LD50 Dermal	Rabbit	> 5,000 mg/kg	-
Antimony trioxide				
	LD50 Oral	Rat	34,600 mg/kg	-
	LD50 Oral	Rat	34,000 mg/kg	-
Conclusion/Summany	. Mixt	ma Not fully tasted		

**Conclusion/Summary** 

Mixture.Not fully tested.

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Titanium dioxide	Skin - Mild irritant	Human		72 hrs	-
Antimony trioxide	Eyes - Mild irritant	Rabbit			-
Conclusion/Summary					
Skin	: M	lixture.Not fu	lly tested.		
Eyes	: M	lixture.Not fu	lly tested.		
Respiratory	: M	lixture.Not fu	lly tested.		
<b>Sensitization</b>					
Conclusion/Summary Skin Respiratory		lixture.Not fu lixture.Not fu	•		
<b>Mutagenicity</b>					
Conclusion/Summary	: M	lixture.Not fu	lly tested.		



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#### Carcinogenicity

Conclusion/Summary Classification	:	Mixture.Not fu	lly tested.
Product/ingredient name	OSHA	IARC	NTP
Antimony trioxide		2B	
<u>Reproductive toxicity</u>			
Conclusion/Summary	:	Mixture.Not fu	lly tested.
<b>Teratogenicity</b>			
Conclusion/Summary	:	Mixture.Not fu	lly tested.
Specific target organ toxicity Not available.	y (single expos	<u>sure)</u>	
Specific target organ toxicity Not available.	y (repeated ex	posure)	
Aspiration hazard Not available.			
Information on likely routes exposure	of :	Not available.	
Potential acute health effects			
Eye contact	:	No known sign	ificant effects or critical hazards.
Inhalation			ificant effects or critical hazards.
Skin contact			ificant effects or critical hazards.
Ingestion	:	No known sign	ificant effects or critical hazards.
Symptoms related to the phy	sical, chemica	and toxicolog	gical characteristics
Eye contact	:	No specific dat	a
Inhalation		No specific dat	
Skin contact		No specific dat	
Ingestion		No specific dat	
Delayed and immediate effec	ts as well as c	hronic effects	from short and long-term exposure

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#### Short term exposure

Potential immediate effects Potential delayed effects	:	Not available. Not available.
Long term exposure		
Potential immediate effects Potential delayed effects	:	Not available. Not available.
Potential chronic health effects		
Conclusion/Summary	:	Mixture.Not fully tested.
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.
<b>Developmental effects</b>	:	No known significant effects or critical hazards.
Fertility effects	:	No known significant effects or critical hazards.

#### Numerical measures of toxicity

#### Acute toxicity estimates

Not available.

# Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
Titanium dioxide			
	Acute LC50 > 1,000,000 μg/l	Fish - Fish	96 h
	Marine water		
	Acute LC50 > 1,000 mg/l Fresh	Fish - Fish	96 h
	water		
	Acute LC50 13 mg/l Fresh water	Aquatic invertebrates.	48 h
		Daphnia	
	Acute LC50 6.5 mg/l Fresh water	Aquatic invertebrates.	48 h
	_	Daphnia	
	Acute LC50 3 mg/l Fresh water	Aquatic invertebrates.	48 h
		Crustaceans	
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			40.1
	Acute LC50 15.9 mg/l Fresh water	Aquatic invertebrates.	48 h
		Crustaceans	40.1
	Acute LC50 3.6 mg/l Fresh water	Aquatic invertebrates.	48 h
		Crustaceans	
	Acute LC50 11 mg/l Fresh water	Aquatic invertebrates.	48 h
		Crustaceans	
	Acute LC50 13.4 mg/l Fresh water	Aquatic invertebrates.	48 h
		Crustaceans	
	Acute EC50 27.8 mg/l Fresh water	Aquatic invertebrates.	48 h
		Daphnia	
	Acute EC50 19.3 mg/l Fresh water	Aquatic invertebrates.	48 h
	C	Daphnia	
	Acute EC50 35.306 mg/l Fresh	Aquatic invertebrates.	48 h
	water	Daphnia	
Antimony trioxide			
5	Acute LC50 > 530 mg/l Fresh	Fish - Fish	96 h
	water		
	Acute LC50 > 1,000,000 μg/l	Fish - Fish	96 h
	Marine water		
	Acute EC50 423,450 µg/l Fresh	Aquatic invertebrates.	48 h
	water	Daphnia	
	Acute EC50 560 mg/l Fresh water	Aquatic invertebrates.	48 h
	8	Crustaceans	
	Acute EC50 730 µg/l Fresh water	Aquatic plants - Algae	72 h
	Acute EC50 760 µg/l Fresh water	Aquatic plants - Algae	96 h
	Acute EC50 740 µg/l Fresh water	Aquatic plants - Algae	96 h
	Acute NOEC 200 µg/l Fresh water	Aquatic plants - Algae	4 d
YELLOW OPTIMA LASER M			
Remarks - Acute - Aquatic	Chemicals are not readily available a	s they are bound within the	e polymer matrix
invertebrates.:			polymer maann
Conclusion/Summary	: Chemicals are not readil	y available as they are bou	nd within the
Concrusion, Summary	polymer matrix.	y available as alley alle boa	
	porfilier maarm		
Persistence and degradability	v		
rensistence und degradusme	L		
Conclusion/Summary	: Chemicals are not readil	y available as they are bou	nd within the
Conclusion, Summary	polymer matrix.		
	polymor matrix.		
Conclusion/Summary	: Chemicals are not readil	y available as they are bou	nd within the
conclusion, communy	polymer matrix.		
	r styllior maann		

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Titanium dioxide		-	low
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Mobility in soil

Soil/water partition coefficient:Not available.(KOC):No known significant effects or critical hazards.

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## 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 Classification	:	Not regulated for transportation.
ICAO/IATA	:	Not classified as dangerous goods under transport regulations.
IMO/IMDG (maritime)	:	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
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		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 United States - TSCA 8(a) - Dioxin/Furane precusor: 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(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: Listed Antimony trioxide 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)	:	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	:	Not listed

US. EPA	CERCLA	Hazardous	Substances	(40 CFR 302)

Chemical Name	CAS-No.	RQ for component
Antimony trioxide	1309-64-4	1,000 lb(s)
		454 kg

Not listed

:

#### SARA 311/312

**Chemicals**)

**Chemicals**)

DEA List II Chemicals (Essential

ne

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Classification

Not applicable.

:

#### **Composition/information on ingredients**

Name	%	Classification
Titanium dioxide	1 - 5	СН
Antimony trioxide	30 - 60	АН, СН

#### SARA 313

	Product name	CAS number	%
Form R - Reporting	Antimony trioxide	1309-64-4	30 - 60
requirements			
Supplier notification	Antimony trioxide	1309-64-4	30 - 60

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	: None of the components are listed.
New York	: The following components are listed: Antimony trioxide
New Jersey	: The following components are listed: Antimony trioxide Titanium dioxide
Pennsylvania	: The following components are listed: Titanium dioxide
	Antimony trioxide

#### California Prop. 65

WARNING: This product contains a chemical 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		
International lists	:	Australia inventory (AICS): All components are listed or exempted. Malaysia Inventory (EHS Register): Not determined.

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	EINECS: All components are listed or exempted.
	Japan inventory: Not determined.
	China inventory (IECSC): All components are listed or exempted.
	Korea inventory: All components are listed or exempted.
	New Zealand Inventory of Chemicals (NZIoC): All components
	are listed or exempted.
	Philippines inventory (PICCS): All components are listed or
	exempted.
	Taiwan Chemical Substances Inventory (TCSI): All components
	are listed or exempted.
Chamical Waapana Convention	Not listed
Chemical Weapons Convention :	Not listed
List Schedule I Chemicals	NT - 11 1
Chemical Weapons Convention :	Not listed
List Schedule II Chemicals	
Chemical Weapons Convention :	Not listed
List Schedule III Chemicals	

# Section 16. Other information

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

Health	*	1
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 are not required on SDSs 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 mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868. The customer is responsible for determining the PPE code for this material.

History

<b>History</b>		
Date of printing	:	04/11/2018
Date of issue/Date of revision	:	04/06/2017
Date of previous issue	:	00/00/0000
Version	:	1.0
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
15/16		

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Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations Not available.

References

Notice to reader

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