#### **SECTION 1 – GENERAL INFORMATION**

#### MANUFACTURER'S NAME: LUBRIMATIC TRADE NAMES & SYNONYMS: WHITE LITHIUM #2 MOTOR ASSEMBLY GREASE

#### SECTION 2 – HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

EMERGENCY OVERVIEW PHYSICAL STATE: COLOR: ODOR: HAZARD STATEMENTS: PRECAUTIONARY MEASURES: OSHA/HCS STATUS: ROUTES OF ENTRY:	Solid (grease) White Mild. Petroleum Oil May cause Eye and Skin irritation Do not eat, drink or smoke when using this product. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. This material is considered hazardous by the OSHA Hazard Communication Standard (29CR 1910.1200) Dermal contact. Eye contact. Inhalation. Ingestion.
	Demarcontact. Lye contact. Initialation. Ingestion.
POTENTIAL ACUTE HEALTH EFFEC INHALATION: INGESTION: SKIN: EYES:	<b>TS</b> No known significant effects or critical hazards No known significant effects or critical hazards Slightly irritating to the skin. No significant irritation expected other than possible mechanical irritation. Slightly irritating to the eyes. No significant irritation expected other than possible mechanical irritation.
POTENTIAL CHRONIC HEALTH EFFE CHRONIC EFFECTS: CARCINOGENICITY: MUTAGENICITY: TERATOGENICITY: DEVELOPMENTAL EFFECTS: FERTILITY EFFECTS: TARGET ORGANS:	<b>ECTS</b> Contains material that may cause target organ damage based on animal data No known significant effects or critical hazards No known significant effects or critical hazards Contains material which may cause damage to the following organs: lungs, upper respiratory tract, skin, eyes
OVER-EXPOSURE SIGNS/SYMPTOM	S
INHALATION: INGESTION: SKIN:	No specific data No specific data Adverse symptoms may include the following: Irritation Redness
EYES: MEDICAL CONDITIONS AGGRAVA	Adverse symptoms may include the following: Irritation Watering Redness
	Pre-existing disorders involving any target organs mentioned in this SDS as being at risk may be aggravated by over-exposure to this product

## SEE TOXICOLOGICAL INFORMATION (SECTION XI)

# SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

#### UNITED STATES

DESCRIPTION	CAS NUMBER	%
Distillates (petroleum), hydrotreated heavy naphthenic (<3% DMSO Extractables	64742-52-5	87-93
by IP346 test method)		
Zinc oxide United States – FDA Food additives generally recognized as safe	1314-13-2	1-5
GRAS 21CFR 182.5991, 182.8991		
Titanium dioxide	13463-67-7	1-5

# SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS (CONT)

## CANADA

DESCRIPTION	CAS NUMBER	%
Distillates (petroleum), hydrotreated heavy naphthenic (<3% DMSO Extractables	64742-52-5	87-93
by IP346 test method)		
Zinc oxide United States – FDA Food additives generally recognized as safe	1314-13-2	1-5
GRAS 21CFR 182.5991, 182.8991		
Titanium dioxide	13463-67-7	1-5

## MEXICO

						CLA	SSIFICA	ΓΙΟΝ
NAME	CAS	UN	%	IDLH	Н	F	R	SPECIAL
	NUMBER	NUMBER						
Distillates	64742-52-5	Not	87-	2500 mg/m <sup>3</sup>	1	1	0	-
(petroleum),		Available	93					
hydrotreated heavy								
Naphthenic (<3%								
DMSO Extractables								
by IP346 test								
method)	1314-13-2							
Zinc Oxide United	1314-13-2	Not	1-5	500 mg/m <sup>3</sup>	1	0	0	-
States FDA Food		Available						
additives generally								
recognized as safe								
GRAS 21CFR								
182.5991,								
182.8991		Not						
Titanium dioxide	13463-67-7	Available	1-5	5000 mg/m <sup>3</sup>	1	0	0	-

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.

# SECTION 4 – FIRST AID MEASURES

EYE CONTACT:	Check for and remove any contact lenses. Immediately flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
SKIN CONTACT:	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.
INHALATION:	Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs; provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
INGESTION:	Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.
PROTECTION: (First Aiders)	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
NOTES TO PHYSICIAN:	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

SECTION 5 – FIRE FIGHTING MEASURES					
FLAMMABILITY:	No specific fire or explosion hazard				
EXTINGUISHING MEDIA SUITABLE: UNSUITABLE:	Use an extinguishing agent suitable for the surrounding fire None known				
SPECIAL EXPOSURE HAZARDS:	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.				
HAZARDOUS THERMAL DECOMPOSITION PRODUCTS:	Decomposition products may include the following materials: Metal Oxide Oxides				
SPECIAL EQUIPMENT:	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	L RELEASE MEASURES				
PRECAUTIONS: (PERSONAL)	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. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section VIII).				
PRECAUTIONS: (ENVIRONMENTAL)	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 FOR CLEAN UP					
SMALL SPILL	Move containers from spill area. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor.				
LARGE SPILL	Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. NOTE: See Section XIII for waste disposal.				
SECTION 7 – HANDLING AND STORAGE					

HANDLING:	Put on appropriate personal protective equipment (See Section VIII). 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. Do not ingest. Avoid contact with eyes, skin and clothing. 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.
STORAGE:	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 X), 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

#### UNITED STATES

INGREDIENT	EXPOSURE LIMITS
Distillates (petroleum), hydrotreaded heavy	ACGIH TLV (United States 6/20/14)
Naphthenic	TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Inhalable fraction
	NIOSH REL (United States 4/20/13)
	TWA: 5 mg/m <sup>3</sup> 10 hours. Form: Mist
	STEL: 10 mg/m <sup>3</sup> 15 minutes. Form: Mist
	OSHA PEL (United States 2/20/13)
	TWA: 5 mg/m <sup>3</sup> 8 hours.
ZINC OXIDE	NIOSH REL (United States 4/20/13)
	CEIL: 15 mg/m <sup>3</sup> Form: Dust
	TWA: 5 mg/m <sup>3</sup> 10 hours. Form: Dust and fumes
	STEL: 10 mg/m <sup>3</sup> 15 minutes. Form: Fume
	OSHA PEL 1989 (United States 3/1989)
	TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Fume
	STEL: 10 mg/m <sup>3</sup> 15 minutes. Form: Fume
	TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction
	TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Total dust
	OSHA PEL (United States 2/20/13)
	TWA: 5 mg/m <sup>3</sup> 8 hours. Form Fume
	TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction
	TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust
	ACGIH TLV (United States 6/20/13)
	TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction
	STEL: 10 mg/m <sup>3</sup> 15 minutes. Form: Respirable fraction
TITANIUM DIOXIDE	ACGIH TLV (United States 6/20/13)
	TWA: 10 mg/m <sup>3</sup> 8 hours.
	OSHA PEL 1989 (United States 3/1989)
	TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Total dust
	OSHA PEL (United States 2/20/13)
	TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust

ZINC OXIDE		ppm		ours)	STEL (15 mins)			CEILING			
		P.P	mg/m <sup>3</sup>	OTHER	ppm	mg/m <sup>3</sup>	OTHER	ppm	mg/m <sup>3</sup>	OTHER	NOTATIONS
	US ACGIH	-	2	-	-	10	-	-	-	-	[a]
	6/2013										
	AB 4/2009	-	2	-	-	10	-	-	-	-	[b]
	BC 7/2013	-	2	-	-	10	-	-	-	-	[b]
	ON 1/2013	-	2	-	-	10	-	-	-	-	[a]
	QC 12/2012	-	5	-	-	10	-	-	-	-	[c]
DISTILLATES	US ACGIH	-	5	-	-	-	-	-	-	-	[c] [d]
petroleum), hydrotreated	6/2013										
Heavy naphthenic											
	AB 4/2009	-	5	-	-	10	-	-	-	-	[e]
	ON 1/2013	-	5	-	-	10	-	-	-	-	[e] [f] [f]
	QC 12/2012	-	5	-	-	10	-	-	-	-	[f]
TITANIUM DIOXIDE	US ACGIH	-	10	-	-	-	-	-	-	-	
	6/2013										
	AB 4/2009	-	10	-	-	-	-	-	-	-	[3]
	BC 7/2013	-	3	-	-	-	-	-	-	-	[g]
		-	10	-	-	-	-	-	-	-	[h]
	ON 1/2013	-	10	-	-	-	-	-	-	-	
	QC 12/2012	-	10	-	-	-	-	-	-	-	[i]

[3] Skin Sensitization

Form: [a] Respirable fraction [b] Respirable [c] fume [d] Inhalable fraction [e] Mist [f] f mist [g] Respirable dust [h] Total dust [i] Total dust

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION (CONT)

#### MEXICO

# OCCUPATIONAL EXPOSURE LIMITS

INGREDIENT	EXPOSURE LIMITS
Distillates (petroleum), hydrotreated heavy naphthenic	NOM-010-STPS (MEXICO 9/2000)
	LMPE-PPT: 5 mg/m <sup>3</sup> 8 hours. Form: mist
	LMPE-CT: 10 mg/m <sup>3</sup> 15 minutes. Form: mist
Zinc Oxide	NOM-010-STPS (MEXICO 9/2000)
	LMPE-PPT: 10 mg/m <sup>3</sup> 8 hours. Form: powder
	LMPE-PPT: 5 mg/m <sup>3</sup> 8 hours. Form: smoke
	LMPE-CT: 10 mg/m <sup>3</sup> 15 minutes. Form: smoke
Titanium Dioxide	NOM-010-STPS (MEXICO 9/2000)
	LMPE-PPT: 10 mg/m <sup>3</sup> m (as Ti) 8 hours
	LMPE-CT: 20 mg/m <sup>3</sup> , (as Ti) 15 minutes

Consult local authorities for acceptable exposure limits.

RECOMMENDED MONITORING PROCEDURES:	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
ENGINEERING MEASURES:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
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.
PERSONAL PROTECTION	
RESPIRATORY:	Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
HANDS:	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.
EYES:	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 or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: Chemical splash goggles.

# SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION (CONT)

SKIN:Personal protective equipment for the body should be selected based on the<br/>task being performed and the risks involved and should be approved by a<br/>specialist before handling this product.ENVIRONMENTAL EXPOSURE<br/>CONTROLS:Emissions from ventilation or work process equipment should be checked to<br/>ensure they comply with the requirements of environmental protection<br/>legislation. In some cases, fume scrubbers, filters or engineering modifications<br/>to the process equipment will be necessary to reduce emissions to acceptable<br/>levels.

## **SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

PHYSICAL STATE: FLASH POINT: AUTO-IGNITION TEMPERATURE: FLAMMABILE LIMITS: COLOR: ODOR: pH: BOILING POINT: MELTING/FREEZING POINT: DENSITY: VAPOR PRESSURE: VAPOR DENSITY: VOLATILITY: EVAPORATION RATE: VISCOSITY:	Solid [grease] Not available Not available White Mild. Petroleum oil Not available Not available Not available O.9 g/cm <sup>3</sup> Not available Not available Not available Not available
VISCOSITY: DISPERSIBILITY PROPERTIES: SOLUBILITY:	Not available Not available Insoluble in the following materials: cold water and hot water

## SECTION 10 - STABILITY AND REACTIVITY

CHEMICAL STABILITY:	The product is stable
CONDITIONS TO AVOID:	No specific data
INCOMPATIBLE MATERIALS:	No specific data
HAZARDOUS DECOMPOSITION	Under normal conditions of storage and use, hazardous decomposition
PRODUCTS:	products should not be produced
POSSIBILITY OF HAZARDOUS	Under normal conditions of storage and use, hazardous reactions will
REACTIONS:	not occur

#### **SECTION 11 – TOXICOLOGICAL INFORMATION**

#### UNITED STATES

#### ACUTE TOXICITY

INGREDIENT NAME	RESULT	SPECIES	DOSE	EXPOSURE		
Distillates (petroleum)	LD50 Oral	Rat	>5000 mg/kg	-		
Hydrotreated heavy						
Naphthenic						
CONCLUSION/SUMM		irritating to the eyes and e mechanical irritation.	skin. No significant irritati	on expected other than		
CHRONIC TOXICITY						
		Repeated or prolonged exposure to spray or mist may produce respiratory tract irritation.				

# SECTION 11 - TOXICOLOGICAL INFORMATION (CONT)

#### **IRRITATION/CORROSION**

INGREDIENT NAME	RESULT	SPECIES	SCORE	EXPOSURE	OBSERVATION
Zinc Oxide	Eyes – Mild Irritant	Rabbit	-	24 hours 500	-
				milligrams	
	Skin – Mild irritant	Rabbit	-	24 hours 500	-
				milligrams	
Titanium Dioxide	Skin – Mild irritant	Human	-	72 hours 300	-
				Micrograms	
				Intermittent	

#### CONCLUSION/SUMMARY

EYES:       Slightly irritating to the eyes. No significant irritation expected other than possible mechanical irritation.         RESPIRATORY:       Repeated or prolonged exposure to spray or mist may product respiratory tract irritation. Pre-existing respiratory disorders may be aggravated by over-exposure to this product.         SENSITIZER CONCLUSION/SUMMARY!       No specific information is available in our database regarding the skin sensitizing properties of this product. Sensitization not suspected for humans.         RESPIRATORY:       Sensitization not suspected for humans.         CARCINOGENICITY CONCLUSION/SUMMARY:       There are no data available on the mixture itself. Carcinogenicity not suspected for humans.         CLASSIFICATION       There are no data available on the mixture itself. Carcinogenicity not suspected for humans.	SKIN:	Slightly irritating to the skin. No significant irritation expected other than possible mechanical irritation.						
irritation. Pre-existing respiratory disorders may be aggravated by over-exposure to this product.         SENSITIZER CONCLUSION/SUMMARY         SKIN:       No specific information is available in our database regarding the skin sensitizing properties of this product. Sensitization not suspected for humans.         RESPIRATORY:       Sensitization not suspected for humans.         CARCINOGENICITY CONCLUSION/SUMMARY:       There are no data available on the mixture itself. Carcinogenicity not suspected for humans.         CLASSIFICATION       Element of the second secon	EYES:							
CONCLUSION/SUMMARY         SKIN:       No specific information is available in our database regarding the skin sensitizing properties of this product. Sensitization not suspected for humans.         RESPIRATORY:       Sensitization not suspected for humans.         CARCINOGENICITY CONCLUSION/SUMMARY:       There are no data available on the mixture itself. Carcinogenicity not suspected for humans.         CLASSIFICATION       CLASSIFICATION	RESPIRATORY:	irritation. Pre-existing respiratory disorders may be aggravated by over-exposure						
properties of this product. Sensitization not suspected for humans.         RESPIRATORY:       Sensitization not suspected for humans.         CARCINOGENICITY CONCLUSION/SUMMARY:       There are no data available on the mixture itself. Carcinogenicity not suspected for humans.         CLASSIFICATION       CLASSIFICATION								
CARCINOGENICITY CONCLUSION/SUMMARY: There are no data available on the mixture itself. Carcinogenicity not suspected for humans. CLASSIFICATION	SKIN:							
CONCLUSION/SUMMARY: There are no data available on the mixture itself. Carcinogenicity not suspected for humans. CLASSIFICATION	RESPIRATORY:	Sensitization not suspected for humans.						

INGREDIENT NAME	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
Zinc Oxide	A4	-	-	-	-	-

#### MUTAGENICITY

**CONCLUSION/SUMMARY:** There are no data available on the mixture itself. Mutagenicity not suspected for humans.

# TERATOGENICITY

CONCLUSION/SUMMARY: There are no data available on the mixture itself. Teratogenicity not suspected for humans.

#### **REPRODUCTIVE TOXICITY**

**CONCLUSION/SUMMARY:** There are no data available on the mixture itself. Not considered to be dangerous to humans according to our database.

# CANADA

#### ACUTE TOXICITY

INGREDIENT NAME	RESULT	SPECIES	DOSE	EXPOSURE
Distillates (petroleum), hydrotreated heavy	LD50 Oral	Rat	>5000 mg/kg	-
naphthenic				

**CONCLUSION/SUMMARY:** Slightly irritating to the eyes and skin. No significant irritation expected other than possible mechanical irritation.

#### CHRONIC TOXICITY

CONCLUSION/SUMMARY: Repeated or prolonged exposure to spray or mist may product respiratory tract irritation.

# SECTION 11 – TOXICOLOGICAL INFORMATION (CONT)

#### IRRITATION/CORROSION

INGREDIENT NAME	RESULT	SPECIES	SCORE	EXPOSURE	OBSERVATION
Zinc Oxide	Eyes-Mild Irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin-Mild Irritant	Rabbit	-	24 hours 500 milligrams	-
Titanium Dioxide	Skin-Mild Irritant	Human	-	72 hours 300 micrograms intermittent	-

CONCLUSION/SUMMARY SKIN:	Slightly irritating to the skin. No significant irritation expected other than possible mechanical irritation.
EYES:	Slightly irritating to the eyes. No significant irritation expected other than possible mechanical irritation.
RESPIRATORY:	Repeated or prolonged exposure to spray or mist may produce respiratory tract irritation. Pre-existing respiratory disorders may be aggravated by over-exposure to this product.
SENSITIZER CONCLUSION/SUMMARY SKIN:	No specific information is available in our database regarding the skin sensitizing properties of this product. Sensitization not suspected for humans.
RESPIRATORY:	Sensitization not suspected for humans.
CARCINOGENICITY CONCLUSION/SUMMARY:	There are no data available on the mixture itself. Carcinogenicity not suspected for humans.
CLASSIFICATION	

INGREDIENT NAME	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
Zinc Oxide	A4	-	-	-	-	-

# MUTAGENICITY

**CONCLUSION/SUMMARY:** There are no data available on the mixture itself. Mutagenicity not suspected for humans.

# TERATOGENICITY

**CONCLUSION/SUMMARY:** There are no data available on the mixture itself. Teratogenicity not suspected for humans.

# **REPRODUCTIVE TOXICITY**

**CONCLUSION/SUMMARY:** There are no data available on the mixture itself. Not considered to be dangerous to humans according to our database.

#### MEXICO

## ACUTE TOXICITY

INGREDIENT NAME	RESULT	SPECIES	DOSE	EXPOSURE
Distillates (petroleum) Hydrotreated heavy Naphthenic	LD50 Oral	Rat	>5000 mg/kg	-

## SECTION 11 - TOXICOLOGICAL INFORMATION (CONT)

CONCLUSION/SUMMARY: Slightly irritating to the eyes and skin. No significant irritation expected other than possible mechanical irritation.

#### CHRONIC TOXICITY

CONCLUSION/SUMMARY: Repeated or prolonged exposure to spray or mist may product respiratory tract irritation.

#### **IRRITATION/CORROSION**

INGREDIENT NAME	RESULT	SPECIES	SCORE	EXPOSURE	OBSERVATION
Zinc Oxide	Eyes-Mild Irritant	Rabbit	-	24 hours	-
				500	
				milligrams	
	Skin-Mild Irritant	Rabbit	-	24 hours	-
				500	
				milligrams	
Titanium Dioxide	Skin-Mild Irritant	Human	-	72 hours	-
				300	
				micrograms	
				intermittent	

#### CONCLUSION/SUMMARY SKIN: Slightly irritating to the skin. No significant irritation expected other than possible mechanical irritation. EYES: Slightly irritating to the eyes. No significant irritation expected other than possible mechanical irritation. **RESPIRATORY:** Repeated or prolonged exposure to spray or mist may produce respiratory tract irritation. Pre-existing respiratory disorders may be aggravated by over-exposure to this product. SENSITIZER CONCLUSION/SUMMARY SKIN: No specific information is available in our database regarding the skin sensitizing properties of this product. Sensitization not suspected for humans. **RESPIRATORY:** Sensitization not suspected for humans. CARCINOGENICITY CONCLUSION/SUMMARY: There are no data available on the mixture itself. Carcinogenicity not suspected for humans. CLASSIFICATION **INGREDIENT NAME** ACGIH IARC EPA NIOSH NTP OSHA inc Ovida

Zinc Oxide		A4	-	-	-	-	-
MUTAGENICITY CONCLUSION/SUMMARY:	There are no data available o	n the mixt	ure itself. N	lutagenicity	y not suspe	ected for hu	umans.
TERATOGENICITY CONCLUSION/SUMMARY:	There are no data available of	n the mixt	ure itself. T	eratogenic	ity not susp	pected for I	umans.
REPRODUCTIVE TOXICITY CONCLUSION/SUMMARY:	There are no data available on humans according to our data		ure itself. N	lot conside	red to be d	angerous t	0

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# SECTION 12 – ECOLOGICAL INFORMATION

#### EXOTOXICITY:

Not readily biodegradable

#### UNITED STATES

# AQUATIC ECOTOXICITY

INGREDIENT NAME	RESULT	SPECIES	EXPOSURE
Zinc Oxide	Acute EC50 0.042 mg/l Fresh	Algae-	72 Hours
	water	Pseudokirchneriella	
	Acute LC50 98 ug/l Fresh water	Subcapitata-	
		Exponential growth	
		phase	
		Daphnia-Daphnia	48 Hours
		magna-neonate	
	Acute LC50 1.1 ppm Fresh water	Fish-Oncorhynchus	96 Hours
		mykiss	
	Chronic NOEC 0.017 mg/l Fresh	Algae-	72 Hours
	water	Pseudokirchneriella	
		subcapitata-	
		Exponential growth	
		phase	
Titanium Dioxide	Acute EC50 5.83 mg/l Fresh	Algae-	72 Hours
	water	Pseudokirchneriella	
		subcapitata-	
		exponential growth	
		phase	10.11
	Acute LC50 3 mg/l Fresh water	Crustaceans-	48 Hours
		Ceriodaphnia dubia-	
		Neonate	
	Acute LC50 5.5 Fresh water	Daphnia-Dpahnia	48 Hours
		magna-Juvenile	
		(Fledgling, Hatchling,	
		Weanling)	
	Acute LC50 1000 mg/l Fresh	Fish-Pimephales	96 Hours
	water	promelas	
	Chronic NOEC 0.984 mg/l Fresh	Algae-	
	water	Pseudokirchneriella	
		subcapitata-	70.11
		Exponential growth	72 Hours
		phase	

#### CONCLUSION/SUMMARY:

There are no data available on the mixture itself.

PERSISTENCE/DEGRADABILITY CONCLUSION/SUMMARY:

This product has not been tested for biodegradation. Not readily biodegradable. This product is not expected to bioaccumulate through food chains in the environment.

# SECTION 12 - ECOLOGICAL INFORMATION(CONT)

## CANADA

# ACQUATIC ECOTOXICITY

PRODUCT/INGREDIENT NAME	RESULT	SPECIES	EXPOSURE
Zinc Oxide	Acute EC50 0.42 mg/l Fresh water	Algae-Pseudokirchneriella subcapitata-exponential growth phase	72 Hours
	Acute LC50 98 ug/l Fresh water	Daphnia-Daphnia magna-Neonate	48 Hours
	Acute LC50 1.1 ppm Fresh water	Fish-Oncorhynchus mykiss	96 Hours
	Chronic NOEC 0.017 mg/l Fresh water	Algae-Pseudokirchneriella subcapatita-Exponential growth phase	72 Hours
Titanium Dioxide	Acute EC50 5.83 mg/l Fresh water	Algae-Pseudokirchneriella subcapatita-Exponential growth phase	72 Hours
	Acute LC50 3 mg/l Fresh water	Crustaceans-Ceriodaphnia dubia-	48 Hours
	Acute LC50 5.5 ppm Fresh water	Daphnia-Daphnia magna-Juvenile (Fledgling, Hatchling, Weanling)	48 Hours
	Acute LC50 1000 mg/l Fresh water Chronic NOEC 0.984 mg/l Fresh water	Fish-Pimephales promelas Algae-Pseudokirchneriella subcapitata-Exponential growth phase	96 Hours 72 Hours

#### CONCLUSION/SUMMARY: PERSISTENCE/DEGRADABILITY CONCLUSION/SUMMARY:

There are not data available on the mixture itself.

This product has not been tested for biodegradation. Not readily biodegradable. This product is not expected to bioaccumulate through food chains in the environment.

# MEXICO ACQUATIC ECOTOXICITY

PRODUCT/INGREDIENT NAME	RESULT	SPECIES	EXPOSURE
Zinc Oxide	Acute EC50 0.042 mg/l Fresh water	Algae-Pseudokirchneriella subcapitata-Exponential growth phase	72 Hours
	Acute LC50 98 ug/l Fresh water	Daphnia-Daphnia magna-Neonate	48 Hours
	Acute LC50 1.1 ppm Fresh water	Fish-Oncorhynchus mykiss	96 Hours
	Chronic NOEC 0.017 mg/l Fresh water	Algae-Pseudokirchneriella subcapitata-Exponential growth phase	72 Hours
Titanium Dioxide	Acute EC50 5.83 mg/l Fresh water	Algae-Pseudokirchneriella subcapitata-Exponential growth phase	72 Hours
	Acute LC50 3 mg/l Fresh water	Crustaceans-Ceriodaphnia dubia- Neonate	48 Hours
	Acute LC50 5.5 ppm Fresh water	Daphnia-Daphnia magna-Juvenile (Fledgling, Hatchling, Weanling)	48 Hours
	Acute LC50 1000 mg/l Fresh water	Fish-Pimephales promelas	96 Hours
	Chronic NOEC 0.984 mg/l Fresh water	Algae-Pseudokirchneriella subcapitata-Exponential growth phase	72 Hours

#### SECTION 12 – ECOLOGICAL INFORMATION(CONT)

CONCLUSION/SUMMARY:	There are no data available on the mixture itself.	
PERSISTENCE/DEGRADABILITY CONCLUSION/SUMMARY:	This product has not been tested for biodegradation. Not readily biodegradable This product is not expected to bioaccumulate through food chains in the environment.	
SECTION 13 – DISPOSAL		
WASTE DISPOSAL:	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 disposalcontractor. 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. 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,	

# DISPOSAL SHOULD BE IN ACCORDANCE WITH APPLICABLE REGIONAL, NATIONAL AND LOCAL LAWS AND REGULATIONS.

waterways, drains and sewers.

## **SECTION 14 – TRANSPORTATION**

REGULATORY INFORMATION	UN NUMBER	PROPER SHIPPING NAME	CLASS	PG*	LABEL	ADDITIONAL INFORMATION
DOT Classification	Not Regulated	-	-	-	-	-
TDG Classification	Not Regulated	-	-	-	-	-
Mexico Classification	Not Regulated	-	-	-	-	-
ADR/RID Class	Not Regulated	-	-	-	-	-
IMDG Class	Not Regulated	-	-	-	-	-
IATA-DGR Class	Not Regulated	-	-	-	-	-

PG\*: Packing Group

## SECTION XV - REGULATORY INFORMATION

#### UNITED STATES

HCS Classification: U.S. Federal Regulations: Target organ effects TSCA 8(a) CDR Exempt/Partial exemption: Not determined

United States Inventory (TSCA 8b): All components are listed or exempted.

SARA 302/304: No products were found. SARA 311/312 Hazards Identification: Delayed (chronic) health hazard

Clean Water Act (CWA) 307: Zinc oxide; zinc bis(dipentyldithiocarbamate)

# SECTION 15 - REGULATORY INFORMATION (CONT)

CLEAN AIR ACT SECTION 112: (b) Hazardous Air Pollutants (HAPs)	Not listed
CLEAN AIR ACT SECTION 602: Class I Substances	Not listed
DEA LIST I CHEMICALS: (Precursor Chemicals)	Not listed
DEAL LIST II CHEMICALS: (Essential Chemicals)	Not listed

# <u>SARA 313</u>

F	PRODUCT NAME	CAS NUMBER	CONCENTRATION
Form R-Reporting:	Zinc oxide	1314-13-2	1-5
requirements	Lead – impurity in zinc	7439-92-1	<0.0001
Supplier notification:	Zinc oxide	1314-13-2	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

Connecticut Carcinogen Reporting:	None of the components are listed
Connecticut Hazardous Material Survey:	None of the components are listed
Florida substances:	None of the components are listed
Illinois Chemical Safety Act	None of the components are listed
Illinois Toxic Substances Disclosure	None of the components are listed
To Employee Act	
Louisiana Reporting:	None of the components are listed
Louisiana Spill:	None of the components are listed
Massachusetts Spill:	None of the components are listed
Massachusetts Substances:	The following components are listed: Zinc Oxide Fume;
	Titanium Dioxide
Michigan Critical Material:	None of the components are listed
Minnesota Hazardous Substances:	None of the components are listed
New Jersey Spill:	None of the components are listed
New Jersey Toxic Catastrophe	None of the components are listed
Prevention Act	·
New Jersey Hazardous Substances:	The following components are listed: Zinc Oxide; Titanium
	Dioxide; Titanium Oxide (Ti02)
New York Acutely Hazardous Substances:	None of the components are listed
New York Toxic Chemical Release Reporting:	None of the components are listed
Pennsylvania RTK Hazardous Substances:	The following components are listed: Zinc Oxide (ZNO);
· · · · · · · · · · · · · · · · · · ·	Titanium Oxide (TI02)
Rhode Island Hazardous Substances:	None of the components are listed

#### **CALIFORNIA PROP 65**

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

## SECTION 15 – REGULATORY INFORMATION (CONT)

INGREDIENT NAME	CANCER	REPRODUCTIVE	NO SIGNIFICANT RISK LEVEL	MAXIMUM ACCEPTABLE DOSAGE LEVEL
Lead – impurity in zinc Cadmium (non-pyrophoric) – impurity in	Yes Yes	Yes Yes	15 ug/day (ingestion) 0.05 ug/day (inhalation)	Yes 4.1 ug/day
zinc	165	165		(ingestion)

UNITED STATES INVENTORY: (TSCA 8b)

CANADA

WHMIS (CANADA):

All components are listed or exempted.

Not controlled under WHMIS (Canada).

CANADIAN LISTS CANADIAN NPRI: CEPA TOXIC SUBSTANCES: CANADA INVENTORY; DSL/NDSL:

The following components are listed: Zinc (and its compounds) None of the components are listed. All components are listed or exempted.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

## MEXICO

**CLASSIFICATION:** 



INTERNATIONAL REGULATIONS INTERNATIONAL LISTS:

Australia inventory (AICS): All components are listed or exempted. China inventory (IECSC): All components are listed or exempted. Japan inventory: All components are listed or exempted. Korea inventory: All components are listed or exempted. Malaysia inventory (EHS Register): Not determined. New Zealand inventory of Chemicals (NZIoC): All components are listed or exempted. Philippines inventory (PICCS): All components are listed or exempted. Taiwan inventory (CSNN): Not determined. Europe inventory: All components are listed or exempted.

CHEMICAL WEAPONS: CONVENTION LIST SCHEDULE I CHEMICALS

CHEMICAL WEAPONS: CONVENTION LIST SCHEDULE II CHEMICALS

CHEMICAL WEAPONS: CONVENTION LIST SCHEDULE III CHEMICALS Not listed

Not listed

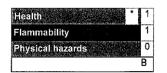
Not listed

## **SECTION 16 – OTHER INFORMATION**

#### LABEL REQUIREMENTS:

May cause eye and skin irritation.

HAZARDOUS MATERIAL: INFORMATION SYSTEM (USA)



**CAUTION:** HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, 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.

The customer is responsible for determining the PPE code for this material.

NATIONAL FIRE PROTECTION: ASSOCIATION (USA)



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