

PRODUCT NAME: Multi-Purpose White Lithium Grease

PRODUCT NUMBER/SIZE: LG-004-R / 4 grams Rev Date: 02/12/2015

## **SECTION 1**

## Identification of the Substance and of the Company/Undertaking

MANUFACTURER'S NAME: ABRO INDUSTRIES, INC.

ADDRESS: 3580 Blackthorn Court

South Bend, IN 46628

USA

PRODUCT DESCRIPTION: Lithium Grease

**COMPANY PHONE:** 574-232-8289

EMERGENCY 24-HR TELEPHONE: Chemtrec: US/Canada 1-800-424-9300

International +1-703-527-3887

## SECTION 2 Hazards Identification

## **Classification:**

SKIN SENSITIZATION - Category 1

## Label Pictogram(s):



Signal Word: Warning

**Hazard Phrases:** May cause an allergic skin reaction.

**Precautionary** Wear protective gloves. Avoid breathing dust. Contaminated work clothing

**Phrases:** should not be allowed out of the workplace.

Response: IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing

before reuse. If skin irritation or rash occurs: Get medical attention.

Storage / Disposal: Dispose of contents and container in accordance with all local, regional, national

and international regulations.

Other:

## SECTION 3 Composition/Information on Ingredients

SUBSTANCE/MIXTURE: OTHER MEANS OF

Mixture. Not available.

**IDENTIFICATION:** 



### **CAS NUMBER/OTHER IDENTIFIERS**

INGREDIENT NAME:	%	CAS NUMBER
zinc oxide	1 – 5	1314-13-2
calcium bis(dinonylnaphthalenesulphonate)	0.1 – 1	57855-77-3

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

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

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

## SECTION 4 First Aid Measures

#### **DESCRIPTION OF NECESSARY FIRST AID MEASURES**

**EYE CONTACT:** Immediately flush eyes with plenty of water, occasionally lifting the upper and

lower eyelids. Check for and remove any contact lenses. Continue to rinse for

at least 10 minutes. Get medical attention if irritation occurs.

**INHALATION:** Remove victim to fresh air and keep at rest in a position comfortable for

breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If

unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar,

tie, belt or waistband.

**SKIN CONTACT:** Wash with plenty of soap and water. Remove contaminated clothing and

shoes. Wash contaminated clothing thoroughly with water before removing it,

or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure.

Wash clothing before reuse. Clean shoes thoroughly before reuse.

**INGESTION:** Wash out mouth with water. Remove dentures if any. Remove victim to fresh

air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or

are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar,

tie, belt or waistband.

## MOST IMPORTANT SYMPTOMS/EFFECTS (ACUTE AND DELAYED)

POTENTIAL ACUTE HEALTH EFFECTS

**EYE CONTACT:** No known significant effects or critical hazards. **INHALATION:** No known significant effects or critical hazards.

**SKIN CONTACT:** May cause an allergic skin reaction.

**INGESTION:** No known significant effects or critical hazards.



**OVER-EXPOSURE SIGNS/SYMPTOMS** 

**EYE CONTACT:** No specific data. **INHALATION:** No specific data.

SKIN CONTACT: Adverse symptoms may include the following:

> Irritation Redness

**INGESTION:** No specific data.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF

**NECESSARY** 

**NOTES TO** Treat symptomatically. Contact poison treatment specialist immediately if

PHYSICIAN: large quantities have been ingested or inhaled.

**SPECIFIC** No specific treatment.

TREATMENTS:

PROTECTION OF No action shall be taken involving any personal risk or without suitable FIRST-AIDERS:

training. It may be dangerous to the person providing aid to give mouth-tomouth resuscitation. Wash contaminated clothing thoroughly with water

before removing it, or wear gloves.

See toxicological information (Section 11)

**SECTION 5** 

Fire Fighting Measures

No specific fire or explosion hazard.

**EXTINGUISHING MEDIA** 

**SUITABLE** Use an extinguishing agent suitable for the surrounding fire.

**EXTINGUISHING MEDIA:** 

UNSUITABLE

**EXTINGUISHING MEDIA:** 

SPECIFIC HAZARDS

**ARISING FROM THE** 

CHEMICAL:

HAZARDOUS THERMAL

**DECOMPOSITION** PRODUCTS:

Decomposition products may include the following materials:

Carbon dioxide Carbon monoxide Metal oxide/oxides

None known.

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 selfcontained 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-No action shall be taken involving any personal risk or without suitable **EMERGENCY** training. Evacuate surrounding areas. Keep unnecessary and unprotected



**PERSONNEL:** 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.

FOR EMERGENCY RESPONDERS:

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the

information in "For nonemergency 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. Avoid dust generation. Using a vacuum with

HEPA filter will reduce dust dispersal. Place spilled material in a designated, 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 1 for emergency contact information and Section 13 for

waste disposal.

## SECTION 7 Handling and Storage

#### PRECAUTIONS FOR SAFE HANDLING

PROTECTIVE MEASURES:

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. 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.

ADVICE ON GENERAL OCCUPATIONAL HYGIENE:

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.



## **SECTION 8 Exposure Controls/Personal Protection**

#### **CONTROL PARAMETERS** OCCUPATIONAL EXPOSURE LIMITS

OCCUPATIONAL EXPOSURE LIMITS	T = =
INGREDIENT NAME:	EXPOSURE LIMITS:
zinc oxide	NIOSH REL (United States, 10/2013).
	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, 2/2013).
	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, 6/2013).
	TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction
	STEL: 10 mg/m <sup>3</sup> 15 minutes. Form: Respirable fraction
APPROPRIATE ENGINEERING	Good general ventilation should be sufficient to control worker
CONTROLS:	exposure to airborne contaminants.
ENVIRONMENTAL EXPOSURE	Emissions from ventilation or work process equipment should
CONTROLS:	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. Contaminated work clothing should not be allowed out of the workplace. 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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the



time to breakthrough for any glove material may be different for

different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the

gloves cannot be accurately estimated.

**BODY PROTECTION:** Personal protective equipment for the body should be selected

based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

OTHER SKIN PROTECTION: Appropriate footwear and any additional skin protection

measures should be selected based on the task being

performed and the risks involved and should be approved by a

specialist before handling this product.

**RESPIRATORY PROTECTION:** 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.

# SECTION 9 Physical and Chemical Properties

**APPEARANCE** 

PHYSICAL STATE: Solid. [grease]

COLOR: White.

ODOR: Mild. Petroleum oil.

ODOR THRESHOLD: Not available. PH: Not applicable.

MELTING POINT:Not available.BOILING POINT:Not available.FLASH POINT:Not available.EVAPORATION RATE:Not available.

**FLAMMABILITY (SOLID, GAS):** Flammable in the presence of the following materials or

conditions: Open flames Sparks

Static discharge and heat.

LOWER AND UPPER EXPLOSIVE Not available.

(FLAMMABLE) LIMITS:

VAPOR PRESSURE:

VAPOR DENSITY:

RELATIVE DENSITY:

Not available.

0.9 g/cm<sup>3</sup>

**SOLUBILITY:** Insoluble in the following materials:

Cold water Hot water

**PARTITION COEFFICIENT: N-**

OCTANOL/WATER:

Not available.

AUTO-IGNITION TEMPERATURE: Not available.

DECOMPOSITION TEMPERATURE: Not available.

VISCOSITY: Not available.



SECTION 10
Stability and Reactivity

**REACTIVITY:** No specific test data related to reactivity available for this product or

its ingredients.

**CHEMICAL STABILITY:** The product is stable.

POSSIBILITY OF HAZARDOUS

REACTIONS:

Under normal conditions of storage and use, hazardous reactions

will not occur.

**CONDITIONS TO AVOID:** No specific data.

**INCOMPATIBLE MATERIALS:** No specific data.

HAZARDOUS DECOMPOSITION

PRODUCTS:

Under normal conditions of storage and use, hazardous

decomposition products should not be produced.

# SECTION 11 Toxicological Information

## INFORMATION ON TOXICOLOGICAL EFFECTS

## **ACUTE TOXICITY:**

PRODUCT/INGREDIENT NAME	RESULT	SPECIES	DOSE	EXPOSURE
calcium bis	LD50 Dermal	Rabbit	> 20 g/kg	
(dinonylnaphthalenesulphonate)	LD50 Oral	Rat	> 5000	
			mg/kg	

**CONCLUSION/SUMMARY:** No known significant effects or critical hazards.

**IRRITATION/CORROSION:** 

PRODUCT/INGREDIENT	RESULT	SPECIES	SCORE	EXPOSURE	OBSERVATION
NAME					
Zinc oxide	Eyes –	Rabbit		24 hours 500	
	Mild	Rabbit		milligrams	
Calcium bis	Irritant	Rabbit		24 hours 500	
(dinonylnaphthalenesulphonate)	Skin –			milligrams	
	Mild			0.5 milliliters	
	Irritant				
	Skin –				
	Moderate				
	Irritant				

**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.



**SENSITIZATION:** 

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.

**MUTAGENICITY:** There are no data available on the mixture itself. Mutagenicity not

suspected for humans.

**CARCINOGENICITY:** There are no data available on the mixture itself. Carcinogenicity not

suspected for humans.

REPRODUCTIVE TOXICITY: There are no data available on the mixture itself. Not considered to be

dangerous to humans, according to our database.

**TERATOGENICITY:** There are no data available on the mixture itself. Teratogenicity not

suspected for humans.

**SPECIFIC TARGET ORGAN** 

**TOXICITY (SINGLE** 

Not available.

**EXPOSURE):** 

**SPECIFIC TARGET ORGAN** 

**TOXICITY (REPEATED** 

Not available.

**EXPOSURE):** 

ASPIRATION HAZARD:

Not available.

INFORMATION ON THE LIKELY ROUTES Routes of entry anticipated:

OF EXPOSURE: Oral

Dermal Inhalation

POTENTIAL ACUTE HEALTH EFFECTS

**EYE CONTACT:** No known significant effects or critical hazards. **INHALATION:** No known significant effects or critical hazards.

SKIN CONTACT: May cause an allergic skin reaction.

No known significant effects or critical hazards. INGESTION:

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL, AND TOXICOLOGICAL

**CHARACTERISTICS** 

**EYE CONTACT:** No specific data. INHALATION: No specific data.

**SKIN CONTACT:** Adverse symptoms may include the following:

> Irritation Redness

INGESTION: No specific data.

DELAYED AND IMMEDIATE EFFECTS AND ALSO CHRONIC EFFECTS FROM SHORT- AND LONG-

**TERM EXPOSURE** 

**SHORT-TERM EXPOSURE:** 

POTENTIAL IMMEDIATE Not available.

**EFFECTS:** 

POTENTIAL DELAYED Not available.

**EFFECTS:** 

**LONG-TERM EXPOSURE:** 

POTENTIAL IMMEDIATE Not available.



**EFFECTS:** 

POTENTIAL DELAYED Not available.

**EFFECTS:** 

POTENTIAL CHRONIC HEALTH EFFECTS

**CONCLUSION/SUMMARY:** Contains material that may cause target organ damage, based on

animal data.

**GENERAL:** Once sensitized, a severe allergic reaction may occur when

subsequently exposed to very low levels.

CARCINOGENICITY:

MUTAGENICITY:

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
Zinc oxide	Acute EC50 0.042 mg/l Fresh	Algae – Pseudokirchneriella subcapitata –	72 hours
	water	Exponential growth phase	
	Acute LC50 98 μg/l Fresh	Daphnia – Daphnia magna – Neonate	48 hours
	water		
	Acute LC50 1.1 ppm Fresh	Fish – Oncorhynchus mykiss	96 hours
	water		
	Chronic NOEC 0.0177 mg/L	Algae – Pseudokirchneriella subcapitata –	72 hours
	Fresh water	Exponential growth phase	

**CONCLUSTION SUMMARY:** There is no data available on the mixture itself.

**PERSISTENCE AND**This product has not been tested for biodegradation. Not readily

**DEGRADABILITY:** biodegradable. This product is not expected to bio-accumulate through

food chains in the environment.

PRODUCT/INGREDIENT NAME	AQUATIC HALF-LIFE	PHOTOLYSIS	BIODEGRADABILITY
White Lithium			Not readily

## **BIOACCUMULATIVE**

### **POTENTIAL:**

PRODUCT/INGREDIENT NAME	LogP <sub>ow</sub>	BCF	POTENTIAL
Zinc oxide		60960	High

## **MOBILITY IN SOIL:**

**SOIL/WATER PARTITION COEFFICIENT** Not available.

(K<sub>oc</sub>):

**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 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. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers.

# SECTION 14 Transport Information

Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (ocean, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport.

U.S. DOT UN/ID Number: Not Regulated

Proper shipping name:

Hazard class: Packing Group: Exceptions:

Environmental Hazards: Transport in Bulk: Special Precautions:

IMO/IMDG UN/ID Number: Not Regulated

Proper shipping name:

Hazard class: Packing Group: Exceptions:

Environmental Hazards: Transport in Bulk: Special Precautions:

ICAO/IATA UN/ID Number: Not Regulated

Proper shipping name:

Hazard Class: Packing Group: Exceptions:

Environmental Hazards: Transport in Bulk: Special Precautions:

Canada UN/ID Number: Not Regulated

**(TDG)** Proper shipping name:



Hazard class: Packing Group: Exceptions:

**Environmental Hazards:** Transport in Bulk: **Special Precautions:** 

AERG: Not applicable.

SPECIAL PRECAUTIONS FOR USER: Transport within user's premises: always transport in

closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the

event of an accident or spillage.

TRANSPORT IN BULK ACCORDING TO **ANNEX II OF MARPOL 73/78 AND THE** 

**IBC CODE:** 

Not available.

## **SECTION 15 Regulatory Information**

Not listed.

Not listed.

Not listed.

**U.S. FEDERAL REGULATIONS:** 

TSCA 8(a) CDR EXEMPT/PARTIAL Not determined.

**EXEMPTION:** 

**UNITED STATES INVENTORY (TSCA 8b):** All components are listed or exempted.

**CLEAN WATER ACT (CWA) 307:** Zinc oxide; zinc bis(dipentyldithiocarbamate) Not listed.

**CLEAN AIR ACT SECTION 112(b) HAZARDOUS AIR POLLUTANTS (HAPs):** 

**CLEAN AIR ACT SECTION 602 CLASS I** 

Not listed. SUBSTANCES:

**CLEAN AIR ACT SECTION 602 CLASS II** 

SUBSTANCES:

**DEA LIST I CHEMICALS (PRECURSOR** 

CHEMICALS):

**DEA LIST II CHEMICALS (ESSENTIAL** 

CHEMICALS): **SARA 302/304** 

**COMPOSITION/INFORMATION ON** No products were found.

**INGREDIENTS:** 

**SARA 304 RQ:** Not applicable.

**SARA 311/312** 

**CLASSIFICATION:** Immediate (acute) health hazard

**COMPOSITION/INFORMATION ON** 

INGREDIENTS:

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NAME	%	FIRE HAZARD	SUDDEN RELEASE OF PRESSURE	REACTIVE	IMMEDIATE (ACUTE) HEALTH HAZARD	DELAYED (CHRONIC) HEALTH HAZARD
zinc oxide	1 – 5	No.	No.	No.	Yes.	No.
calcium bis (dinonylnaphthalene sulphonate)	0.1 – 1	No.	No.	No.	Yes.	No.

**SARA 313** 

	PRODUCT NAME:	CAS NUMBER:	%
FORM R – REPORTING	Zinc oxide	1314-13-2	1 – 5



REQUIREMENTS:			
SUPPLIER NOTIFICATION:	Zinc oxide	13147-13-2	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.

None of the components are listed.

None of the components are listed.

EMPLOYEE ACT:

LOUISIANA REPORTING:

LOUISIANA SPILL:

None of the components are listed.

MASSACHUSETTS SPILL:

None of the components are listed.

MASSACHUSETTS SUBSTANCES: The following components are listed:

Titanium dioxide Zinc oxide fume

MICHIGAN CRITICAL MATERIAL:

None of the components are listed.

MINNESOTA HAZARDOUS SUBSTANCES:

None of the components are listed.

None of the components are listed.

NEW JERSEY TOXIC CATASTROPHE PREVENTION None of the components are listed.

ACT:

**NEW JERSEY HAZARDOUS SUBSTANCES:** The following components are listed:

Titanium dioxide Titanium oxide (TiO<sub>2</sub>)

Zinc oxide

**NEW YORK ACUTELY HAZARDOUS SUBSTANCES:** None of the components are listed. **NEW YORK TOXIC CHEMICAL RELEASE**None of the components are listed.

REPORTING:

PENNSYLVANIA TRK HAZARDOUS SUBSTANCES: The following components are listed:

Titanium oxide(TiO<sub>2</sub>) Zinc oxide (ZnO)

Not listed.

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.

INGREDIENT NAME	CANC ER	REPRODUC TIVE	NO SIGNIFICANT RISK LEVEL	MAXIMUM ACCEPTABLE DOSAGE LEVEL
Titanium dioxide	Yes.	No.	No.	No.

## **INTERNATIONAL REGULATIONS**

CHEMICAL WEAPONS CONVENTION LIST SCHEDULE I Not listed.

CHEMICALS:

CHEMICAL WEAPONS CONVENTION LIST SCHEDULE II Not listed.

**CHEMICALS:** 

CHEMICAL WEAPONS CONVENTION LIST SCHEDULE III

**CHEMICALS:** 

MONTREAL PROTOCOL (ANNEXES A, B, C, E): Not listed.



INTERNATIONAL LISTS:

**NATIONAL INVENTORY** 

AUSTRAILIA: All components listed or exempted.

CHINA: All components are listed or exempted.

EUROPE: All components are listed or exempted.

JAPAN: All components are listed or exempted.

MALAYSIA: Not determined.

NEW ZEALAND: All components are listed or exempted.
PHILIPPINES: All components are listed or exempted.
REPUBLIC OF KOREA: All components are listed or exempted.

**TAIWAN:** Not determined.

**CANADA:** 

WHMIS (CANADA): Class D-2A: Material causing other toxic effects (Very toxic).

**CANADIAN LISTS:** 

**CANADIAN NPRI:** The following components are listed:

Zinc (and its compounds)

CEPA TOXIC None of the components are listed.

SUBSTANCES:

**CANADA INVENTORY** All components are listed or exempted.

(DSL/NDSL):

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

## SECTION 16 Other Information

### **HAZARDOUS MATERIAL INFORMATION SYSTEM (U.S.A.)**

Health: 1 Flammability: 1 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.

### **NATIONAL FIRE PROTECTION ASSOCIATION (U.S.A.)**



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This information relates only to the product designated herein, and does not relate to its use in combination with any other material or process.

#### **ABBREVIATIONS:**

NG="NOT GIVEN" BT="BETWEEN" <="LESS THAN" >="GREATER THAN" ND = Not Determined NA = Not Applicable