SAFETY DATA SHEET



Section 1. Identification

GHS product identifier

: Clarion® Food Machinery HT EP Grease, No. 2

Synonyms

: Lubricating grease;

CITGO® Material Code: 655700009

Code : 655700009

Relevant identified uses of the substance or mixture and uses advised against

Not applicable.

Supplier's details : CITGO Petroleum Corporation

P.O. Box 4689 Houston, TX 77210 sdsvend@citgo.com

Emergency telephone number (with hours of

operation)

: Technical Contact: (800) 248-4684 Medical Emergency: (832) 486-4700 CHEMTREC Emergency: (800) 424-9300

(United States Only)

Section 2. Hazards identification

OSHA/HCS status

: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

: EYE IRRITATION - Category 2A AQUATIC HAZARD (ACUTE) - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 2

GHS label elements

Hazard pictograms





Signal word

: Warning

Hazard statements

Causes serious eye irritation.
 Toxic to aquatic life with long lasting effects.

Precautionary statements

General

: Keep out of reach of children.

Prevention

: Wear eye or face protection. Avoid release to the environment. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling.

Response

: Collect spillage. Wash with plenty of soap and water or use a recognized skin cleanser. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

Storage

: Store in accordance with all local, regional, national and international regulations. Store in a dry place and a closed container. Empty containers may contain material residues which can ignite with explosive force. Misuse of empty containers can be dangerous if used to store toxic, flammable, or reactive materials. Cutting or welding of empty containers can cause fire, explosion, or release of toxic fumes from residues. Do not pressurize or expose empty containers to open flame, sparks, or heat. Keep container closed and drum bungs in place. All label warnings and precautions must be observed. Return empty drums to a qualified reconditioner. Consult appropriate federal, state and local authorities before reusing, reconditioning, reclaiming, recycling, or disposing of empty containers and/or waste residues of this material.

Section 2. Hazards identification

Disposal

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise classified

: Injection of pressurized hydrocarbons can cause severe permanent tissue damage. Initial symptoms may be minor. Injection of petroleum hydrocarbons requires immediate medical attention.

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Other means of identification

: Lubricating grease;

CITGO® Material Code: 655700009

CAS number/other identifiers

CAS number : Not applicable.

Ingredient name	%	CAS number
White mineral oil (petroleum)	≥50 - ≤75	8042-47-5
calcium carbonate	<10	471-34-1
Aluminum, benzoate hydrogenated tallow fatty acid iso-Pr alc. complexes	≤10	68647-58-5
zinc oxide	<2.5	1314-13-2

^{* =} Various ** = Mixture *** = Proprietary

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

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

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

Section 4. First aid measures

Description of necessary first aid measures

Eye contact

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If 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

: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. 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. 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

: Causes serious eye irritation.

Inhalation

: No known significant effects or critical hazards.

Skin contact

Injection of pressurized hydrocarbons can cause severe permanent tissue damage.
 Initial symptoms may be minor.

Date of issue/Date of revision : 3/2/2022 Date of previous issue : 1/28/2022 Version : 8 2/13

Section 4. First aid measures

Ingestion: No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact: Adverse symptoms may include the following:

pain or irritation watering redness

Inhalation: No specific data.Skin contact: No specific data.Ingestion: No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

: In the event of injection in underlying tissue, immediate treatment should include extensive incision, debridement and saline irrigation. Inadequate treatment can result in ischemia and gangrene. Early symptoms may be minimal.

Specific treatments

: Treat symptomatically and supportively.

Protection of 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.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing

media

Unsuitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

: None known.

metal oxide/oxides

Specific hazards arising from the chemical

: This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products

 Decomposition products may include the following materials: carbon dioxide carbon monoxide phosphorus 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

: 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.

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 non-emergency personnel".

Date of issue/Date of revision : 3/2/2022 Date of previous issue : 1/28/2022 Version : 8 3/13

Section 6. Accidental release measures

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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

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). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid release to the environment. 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.

including any incompatibilities

Conditions for safe 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 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. See Section 10 for incompatible materials before handling or use.

> Bulk Storage Conditions: Do not apply heat or flame to stockpiled material. Rotate stock to reduce the potential for hot spots. Do not store with oxidizers. Minimize dust creation by keeping material moist and/or covered.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
White mineral oil (petroleum)	OSHA PEL (United States, 5/2018).
	TWA: 5 mg/m³ 8 hours.
	ACGIH TLV (United States, 1/2021).
	TWA: 5 mg/m³ 8 hours. Form: Inhalable
	fraction
	NIOSH REL (United States, 10/2020).
	TWA: 5 mg/m³ 10 hours. Form: Mist
	STEL: 10 mg/m³ 15 minutes. Form: Mist
calcium carbonate	NIOSH REL (United States, 10/2020).
	TWA: 5 mg/m³ 10 hours. Form: Respirable
	fraction
	TWA: 10 mg/m³ 10 hours. Form: Total
Aluminum, benzoate hydrogenated tallow fatty acid iso-Pr alc.	ACGIH TLV (United States).
complexes	TWA: 10 mg/m³ 8 hours.
	NIOSH REL (United States, 10/2020).

Date of issue/Date of revision Date of previous issue 4/13 : 3/2/2022 : 1/28/2022 Version: 8

Section 8. Exposure controls/personal protection

zinc oxide

TWA: 2 mg/m³, (as Al) 10 hours. NIOSH REL (United States, 10/2020).

CEIL: 15 mg/m3 Form: Dust

TWA: 5 mg/m³ 10 hours. Form: Dust and

fumes

STEL: 10 mg/m³ 15 minutes. Form: Fume **OSHA PEL (United States, 5/2018).**TWA: 5 mg/m³ 8 hours. Form: Fume TWA: 5 mg/m³ 8 hours. Form: Respirable

fraction

TWA: 15 mg/m³ 8 hours. Form: Total dust

ACGIH TLV (United States).

TWA: 2 mg/m³ 8 hours. Form: Respirable STEL: 10 mg/m³ 15 minutes. Form:

Respirable

ACGIH TLV (United States, 1/2021).

TWA: 2 mg/m³ 8 hours. Form: Respirable raction

STEL: 10 mg/m³ 15 minutes. Form:

Respirable fraction

OSHA PEL (United States). Notes:

Respirable

TWA: 5 mg/m³ 8 hours. Form: Respirable

dust

OSHA PEL (United States). Notes: Total TWA: 15 mg/m³ 8 hours. Form: Total dust

Appropriate engineering controls

Environmental exposure controls

- : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, vapor controls, 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 glasses equipped with side shields are recommended as minimum protection in industrial settings. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles. 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 inhalation hazards exist, a full-face respirator may be required instead.

Skin protection Hand protection

: Chemical-resistant 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.

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.

Date of issue/Date of revision : 3/2/2022 Date of previous issue : 1/28/2022 Version : 8 5/13

Section 8. Exposure controls/personal protection

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

: Avoid inhalation of gases, vapors, mists or dusts. 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

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state : Solid. [Smooth texture]

Color : Off-white.

Odor : Mild petroleum odor

pН **Boiling point, initial boiling** point, and boiling range

: Not available. : Not available.

Flash point : Open cup: >150°C (>302°F) [Estimated]

: <1 (n-butyl acetate. = 1) **Evaporation rate**

Lower and upper explosive

(flammable) limits

: Lower: 1% Upper: 7%

Vapor pressure : <0.0013 kPa (<0.01 mm Hg)

Relative vapor density : >10 [Air = 1]

Relative density

Density Ibs/gal : Estimated 8.34 lbs/gal

Density gm/cm³ : Not available.

: Estimated 10 @ 60 F Gravity, °API

Solubility : Insoluble in the following materials: cold water. : Not applicable.

Auto-ignition temperature

NLGI Grade

Flow time (ISO 2431) : Not available.

Particle characteristics

Median particle size : Not available.

Section 10. Stability and reactivity

Reactivity : Not expected to be Explosive, Self-Reactive, Self-Heating, or an Organic Peroxide under US GHS Definition(s).

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.

6/13 Date of issue/Date of revision : 3/2/2022 : 1/28/2022 Version: 8 Date of previous issue

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
White mineral oil (petroleum)	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
calcium carbonate	LD50 Oral	Rat	6450 mg/kg	-

Conclusion/Summary

: White mineral oil (petroleum): Low-viscosity and High-viscosity White Mineral Oils: ^[

25,45,50,701

DRAIZE EYE, Acute: Non-irritating [Rabbit]. DRAIZE DERMAL, Acute: Non-irritating [Rabbit]. BUEHLER, Acute: Non-sensitizing [Guinea Pig]. 28-Day DERMAL, Sub-Chronic: Non-irritating [Rabbit].

104-Week DERMAL, Chronic: No skin tumors at site of application [Mouse].

MUTAGENICITY:

Modified Ames Assay: Negative [Salmonella typhimurium]. in-vitro Lymphoma Assay: Negative or no toxicity [Mouse].

Lifetime mouse skin painting studies indicated that white mineral oils are not mutagenic or carcinogenic. Mineral oil mists derived from highly refined oils are reported to have low acute and sub-acute toxicities in animals. Effects from single and short-term repeated exposures to high concentrations of mineral oil mists well above applicable workplace exposure levels include lung inflammatory reaction, lipoid granuloma formation and lipoid pneumonia. In acute and sub-acute studies involving exposures to lower concentrations of mineral oil mists at or near current work place exposure levels produced no significant toxicological effects. In long term studies (up to two years) no carcinogenic effects have been reported in any animal species tested.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
calcium carbonate	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
	Eyes - Mild irritant	Rabbit	-	-	-
	Respiratory - Irritant	Rabbit	-	-	-
zinc oxide	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-

: No additional information. Skin : No additional information. Eyes Respiratory No additional information.

Sensitization

Not available.

Skin : No additional information. : No additional information. Respiratory

Mutagenicity Not available.

Conclusion/Summary : No additional information.

Carcinogenicity

Not available.

Date of issue/Date of revision : 3/2/2022 Date of previous issue : 1/28/2022 Version: 8 7/13

Section 11. Toxicological information

Conclusion/Summary

: This grease product contains crystalline silica at concentrations above 0.1%. IARC concludes that crystalline silica in the form of quartz or cristobalite dust is carcinogenic to humans (Group 1). In addition, in the 14th Report on Carcinogens, NTP includes Silica, Crystalline (Respirable Size) on its list of substances known to be human carcinogens. Inhalation exposures to respirable-sized silica dust from a grease matrix are unlikely.

Reproductive toxicity

Not available.

Conclusion/Summary

: No additional information.

Teratogenicity

Not available.

Conclusion/Summary: No additional information.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely

routes of exposure

: Routes of entry anticipated: Dermal.

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : No known significant effects or critical hazards.

Skin contact: Injection of pressurized hydrocarbons can cause severe permanent tissue damage.

Initial symptoms may be minor.

Ingestion: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: Adverse symptoms may include the following:

pain or irritation watering redness

Inhalation: No specific data.Skin contact: No specific data.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 effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : No known significant effects or critical hazards.

Date of issue/Date of revision : 3/2/2022 Date of previous issue : 1/28/2022 Version : 8 8/13

Section 11. Toxicological information

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
Clarion® Food Machinery HT EP Grease, No. 2	N/A	3163.4	N/A	N/A	N/A
White mineral oil (petroleum)	N/A	2500	N/A	N/A	N/A
calcium carbonate	6450	N/A	N/A	N/A	N/A

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
White mineral oil (petroleum) calcium carbonate	LC50 >2000 mg/l Acute LC50 >56000 ppm Fresh water	Fish Fish - Gambusia affinis - Adult	96 hours 96 hours
	Chronic NOEC 61 mg/g Fresh water	Fish - Oncorhynchus mykiss - Juvenile (Fledgling, Hatchling, Weanling)	28 days
zinc oxide	Acute IC50 1.85 mg/l Marine water Acute LC50 98 μg/l Fresh water	Algae - Skeletonema costatum Daphnia - Daphnia magna - Neonate	96 hours 48 hours
	Acute LC50 1.1 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours

Conclusion/Summary: Not available.

Persistence and degradability

Conclusion/Summary: Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
White mineral oil (petroleum	-	-	Not readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
White mineral oil (petroleum)	>6	-	high
zinc oxide	-	28960	high

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects : No known significant effects or critical hazards.

Date of issue/Date of revision : 3/2/2022 Date of previous issue : 1/28/2022 Version : 8 9/13

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

Section 14. Transport information

	DOT Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.

Oil: The product(s) represented by this SDS is (are) regulated as "oil" under 49 CFR Part 130. Shipments by rail or highway in packaging having a capacity of 3500 gallons or more or in a quantity greater 42,000 gallons are subject to these requirements. In addition, mixtures containing 10% or more of this product may be subject to these requirements.

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 : Not available. to IMO instruments

Section 15. Regulatory information

U.S. Federal regulations

United States inventory (TSCA 8b): All components are listed or exempted. Clean Water Act (CWA) 307: zinc oxide; zinc; lead powder; copper; Nickel; arsenic; chromium

This material is classified as an oil under Section 311 of the Clean Water Act (CWA) and the Oil Pollution Act of 1990 (OPA). Discharges or spills which produce a visible sheen on waters of the United States, their adjoining shorelines, or into conduits leading to surface waters must be reported to the EPA's National Response Center at (800) 424-8802

SARA 302/304

Composition/information on ingredients

SARA 304 RQ : Not applicable.

10/13 Date of issue/Date of revision : 3/2/2022 : 1/28/2022 Version: 8 Date of previous issue

Section 15. Regulatory information

SARA 311/312

Classification : EYE IRRITATION - Category 2A

HNOC - Injection Hazards

Composition/information on ingredients

Name	%	Classification
calcium carbonate		SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A HNOC - Injection Hazards
zinc oxide		EYE IRRITATION - Category 2B HNOC - Injection Hazards

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	zinc oxide	1314-13-2	<2
Supplier notification	zinc oxide	1314-13-2	<2

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 : The following components are listed: ZINC OXIDE FUME

New York : None of the components are listed.

New Jersey : The following components are listed: ZINC OXIDE

Pennsylvania : The following components are listed: ZINC OXIDE FUME

California Prop. 65 Clear and Reasonable Warnings (2018)

⚠ WARNING: This product can expose you to chemicals including Silica, crystalline, which is known to the State of California to cause cancer, and Lead, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Ingredient name	%	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
crystalline silica, respirable powder	<0.1	Yes.	No.	-	-
lead powder	<0.0001	Yes.	Yes.	Yes.	Yes.
Nickel	<0.0001	Yes.	No.	-	-
cobalt	trace	Yes.	No.	-	-
arsenic	trace	Yes.	No.	Yes.	-

International regulations

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

Inventory list

United States : 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** : All components are listed or exempted. Japan inventory (CSCL): Not determined. **Japan** Japan inventory (ISHL): Not determined.

: Not determined Malaysia **New Zealand** Not determined.

Date of issue/Date of revision 11/13 : 3/2/2022 Date of previous issue : 1/28/2022 Version: 8

Section 15. Regulatory information

Philippines : All components are listed or exempted.

Republic of Korea : All components are listed or exempted.

Taiwan : Not determined.
Thailand : Not determined.
Turkey : Not determined.
Viet Nam : Not determined.

Section 16. Other information

National Fire Protection Association (U.S.A.)



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Procedure used to derive the classification

Classification	Justification
EYE IRRITATION - Category 2A	Calculation method
AQUATIC HAZARD (ACUTE) - Category 2	Calculation method
AQUATIC HAZARD (LONG-TERM) - Category 2	Calculation method

History

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revision

Date of previous issue : 1/28/2022

Version : 8

Key to abbreviations : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

References : Not available.

Indicates information that has changed from previously issued version.

Notice to reader

Date of issue/Date of revision : 3/2/2022 Date of previous issue : 1/28/2022 Version : 8 12/13

Section 16. Other information

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Date of issue/Date of revision : 3/2/2022 Date of previous issue : 1/28/2022 Version : 8 13/13