

# SAFETY DATA SHEET

X-357 (Aerosol)

### **Section 1. Identification**

GHS product identifier : X-357 (Aerosol)

Other means of identification

: Not available.

Product type : Aerosol.

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

Product use : Petroleum lubricating grease

**Area of application**: Industrial applications.

Supplier/Manufacturer : LUBRIPLATE® Lubricants Co.

129 Lockwood St. Newark, NJ 07105

Telephone no.: 1-973-589-9150

e-mail address of person responsible for this SDS

: SDS@lubriplate.com

**Emergency telephone** number (with hours of

operation)

: CHEM-TEL 1-800-255-3924 (24 hour)

### 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

: 1222 FLAMMABLE AEROSOLS - Category 1

H280 GASES UNDER PRESSURE - Compressed gas

H315 SKIN IRRITATION - Category 2 H317 SKIN SENSITIZATION - Category 1

H336 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -

Category 3

H373 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE)

(cardiovascular system) - Category 2 H304 ASPIRATION HAZARD - Category 1

Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 24.5%

**GHS label elements** 

Hazard pictograms









Signal word : Danger

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### Section 2. Hazards identification

Hazard statements : H222 - Extremely flammable aerosol.

H280 - Contains gas under pressure; may explode if heated.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H304 - May be fatal if swallowed and enters airways.

H336 - May cause drowsiness and dizziness.

H373 - May cause damage to organs through prolonged or repeated exposure.

(cardiovascular system)

**Precautionary statements** 

Prevention : P280 - Wear protective gloves.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P211 - Do not spray on an open flame or other ignition source.

P271 - Use only outdoors or in a well-ventilated area.

P260 - Do not breathe dust or mist.

P264 - Wash hands thoroughly after handling.

P272 (OSHA) - Contaminated work clothing must not be allowed out of the workplace.

P251 - Pressurized container: Do not pierce or burn, even after use.

**Response** : P314 - Get medical attention if you feel unwell.

P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable

for breathing. Call a POISON CENTER or physician if you feel unwell.

P301 + P310 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or

physician. Do NOT induce vomiting.

P302 + P352 + P363 - IF ON SKIN: Wash with plenty of soap and water. Wash

contaminated clothing before reuse.

P333 + P313 - If skin irritation or rash occurs: Get medical attention.

Storage : P405 - Store locked up.

P410 - Protect from sunlight.

P412 - Do not expose to temperatures exceeding 50 °C/122 °F.

P403 - Store in a well-ventilated place.

Disposal : P501 - Dispose of contents and container in accordance with all local, regional, national

and international regulations.

Supplemental label

elements

: Avoid contact with skin and clothing. Wash thoroughly after handling.

Hazards not otherwise

classified

: Defatting to the skin. Prolonged or repeated contact may dry skin and cause irritation.

### Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Other means of identification

: Not available.

**CAS** number/other identifiers

**CAS number** : Not applicable. **Product code** : Not available.

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### Section 3. Composition/information on ingredients

Ingredient name	Other names	%	CAS number
vistillates (petroleum), hydrotreated heavy naphthenic	-	≥25 - <50	64742-52-5
Distillates (petroleum), hydrotreated light naphthenic	-	≥25 - <50	64742-53-6
Distillates (petroleum), hydrotreated light	-	≥20 - <25	64742-47-8
Petroleum gases, liquefied	-	≥10 - <25	68476-85-7
zinc oxide	-	≥3 - <5	1314-13-2
antimony tris[O,O-dipropyl] tris(dithiophosphate)	-	≥1 - <2	15874-48-3
zinc bis(dibutyldithiocarbamate)	-	≥0.3 - <1	136-23-2

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 and hence require reporting in this section.

### 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 it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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 necessary, call a poison center or physician. 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 skin thoroughly with soap and water or use recognized skin cleanser. 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

: Get medical attention immediately. Call a poison center or physician. 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. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. 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 : Can cause central nervous system (CNS) depression. May cause drowsiness and

dizziness.

**Skin contact**: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.

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### Section 4. First aid measures

Ingestion

: Zan cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.

#### Over-exposure signs/symptoms

**Eve contact** 

: Adverse symptoms may include the following:

pain or irritation watering

**Inhalation** 

: Adverse symptoms may include the following:

respiratory tract irritation

coughing

redness

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

Skin contact

: Adverse symptoms may include the following:

irritation redness dryness cracking

Ingestion

: Adverse symptoms may include the following:

nausea or vomiting

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

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments

: No specific treatment.

**Protection of first-aiders** 

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water

before removing it, or wear gloves.

#### See toxicological information (Section 11)

### Section 5. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing** 

media

: Do not use water jet.

Specific hazards arising from the chemical

: Extremely flammable aerosol. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed. Runoff to sewer may create fire or explosion hazard.

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### Section 5. Fire-fighting measures

# Hazardous thermal decomposition products

 Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides

phosphorus oxides 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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

# 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. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

#### For emergency responders

: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

#### **Environmental precautions**

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### Methods and materials for containment and cleaning up

#### **Small spill**

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

#### Large spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

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### 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. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not swallow. Avoid breathing gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous.

# 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 away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Protect from sunlight. Store locked up. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination.

### Section 8. Exposure controls/personal protection

#### **Control parameters**

Occupational exposure limits

Ingredient name Exposure limits				
vistillates (petroleum), hydrotreated heavy naphthenic	ACGIH TLV (United States, 4/2014).			
	TWA: 5 mg/m³ 8 hours. Form: Inhalable			
	fraction			
	NIOSH REL (United States, 10/2013).			
	TWA: 5 mg/m³ 10 hours. Form: Mist			
	STEL: 10 mg/m³ 15 minutes. Form: Mist			
	OSHA PEL (United States, 2/2013).			
	TWA: 5 mg/m³ 8 hours.			
Distillates (petroleum), hydrotreated light naphthenic	ACGIH TLV (United States, 4/2014).			
	TWA: 5 mg/m³ 8 hours. Form: Inhalable			
	fraction			
	NIOSH REL (United States, 10/2013).			
	TWA: 5 mg/m³ 10 hours. Form: Mist			
	STEL: 10 mg/m³ 15 minutes. Form: Mist			
	OSHA PEL (United States, 2/2013).			
	TWA: 5 mg/m³ 8 hours.			
Distillates (petroleum), hydrotreated light	ACGIH TLV (United States, 4/2014).			
	Absorbed through skin.			
	TWA: 200 mg/m³, (as total hydrocarbon			
	vapor) 8 hours.			
zinc oxide	NIOSH REL (United States, 10/2013).			
	CEIL: 15 mg/m³ Form: Dust			
	TWA: 5 mg/m³ 10 hours. Form: Dust and			
	fumes			
	STEL: 10 mg/m³ 15 minutes. Form: Fume			
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### Section 8. Exposure controls/personal protection

**OSHA PEL 1989 (United States, 3/1989).** 

TWA: 5 mg/m³ 8 hours. Form: Fume STEL: 10 mg/m³ 15 minutes. Form: Fume TWA: 5 mg/m³ 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/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, 4/2014). TWA: 2 mg/m³ 8 hours. Form: Respirable fraction

STEL: 10 mg/m³ 15 minutes. Form:

Respirable fraction

ACGIH TLV (United States, 4/2014).

TWA: 0.5 mg/m³, (as Sb) 8 hours.

OSHA PEL 1989 (United States, 3/1989).

TWA: 0.5 mg/m³, (as Sb) 8 hours. OSHA PEL (United States, 2/2013). TWA: 0.5 mg/m³, (as Sb) 8 hours.

NIOSH REL (United States, 10/2013). TWA: 0.5 mg/m³, (as Sb) 10 hours.

Appropriate engineering controls

antimony tris[O,O-dipropyl] tris(dithiophosphate)

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

**Environmental exposure** controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### **Individual protection measures**

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. 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: chemical splash goggles.

**Skin protection** 

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### Section 8. Exposure controls/personal 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. When there is a risk of ignition from static electricity, wear antistatic protective clothing. For the greatest protection from static discharges, clothing

should include anti-static overalls, boots and gloves.

: Appropriate footwear and any additional skin protection measures should be selected Other skin protection

based on the task being performed and the risks involved and should be approved by a

specialist before handling this product.

: Use a properly fitted, air-purifying or air-fed respirator complying with an approved Respiratory protection

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** 

: Gas. [Aerosol. / Smooth. / Mist] **Physical state** 

Black. Color Odor : Solvent : Not available. Odor threshold : Not available.

**Melting point** : Not available. **Boiling point** : Not available.

: Open cup: <-18°C (<-0.4°F) Flash point

: >1 (butyl acetate = 1) **Evaporation rate** 

Flammability (solid, gas) Lower and upper explosive

(flammable) limits

Vapor pressure

: Not available. : Not available.

Vapor density : >1 [Air = 1] : 0.97 [Water = 1] **Relative density** 

**Solubility** : Insoluble in the following materials: cold water and hot water.

: 792.9 kPa (5947.2 mm Hg) [50°C]

Solubility in water Not available. Partition coefficient: n-: Not available.

octanol/water

**Auto-ignition temperature** : Not available. **Decomposition temperature** : Not available. **SADT** : Not available. **Viscosity** : Not available.

Type of aerosol : Spray

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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**: The product is stable.

Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Under normal conditions of storage and use, hazardous polymerization will not occur.

**Conditions to avoid** : Avoid all possible sources of ignition (spark or flame).

**Incompatible materials**: Reactive or incompatible with the following materials: oxidizing materials.

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
Distillates (petroleum), hydrotreated heavy naphthenic	LD50 Oral	Rat	>5000 mg/kg	-
Distillates (petroleum), hydrotreated light naphthenic	LD50 Oral	Rat	>5000 mg/kg	-
zinc bis (dibutyldithiocarbamate)	LD50 Oral	Rat	>5000 mg/kg	-

#### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
istillates (petroleum), hydrotreated heavy naphthenic	Skin - Severe irritant	Rabbit	-	500 milligrams	-
zinc oxide	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
zinc bis (dibutyldithiocarbamate)	Eyes - Mild irritant	Rabbit	-	39 milligrams	-
,	Skin - Mild irritant	Rabbit	-	0.5 Grams	-

#### **Sensitization**

Not available.

**Mutagenicity** 

**Conclusion/Summary**: Not available.

**Carcinogenicity** 

Conclusion/Summary : T

: The mineral oils in the product contain < 3% DMSO extract (IP 346).

**Reproductive toxicity** 

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# Section 11. Toxicological information

**Conclusion/Summary**: Not available.

**Teratogenicity** 

Conclusion/Summary: Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Distillates (petroleum), hydrotreated light antimony tris[O,O-dipropyl] tris(dithiophosphate)	Category 3 Category 3	Not applicable. Not applicable.	Narcotic effects Respiratory tract irritation
zinc bis(dibutyldithiocarbamate)	Category 3	Not applicable.	Respiratory tract irritation

#### Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
antimony tris[O,O-dipropyl] tris(dithiophosphate)	Category 2		cardiovascular system

#### **Aspiration hazard**

Name	Result
Distillates (petroleum), hydrotreated light naphthenic	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

: Routes of entry anticipated: Oral, Dermal, Inhalation.

#### Potential acute health effects

**Eye contact** 

: No known significant effects or critical hazards.

Inhalation

: Can cause central nervous system (CNS) depression. May cause drowsiness and

dizziness.

**Skin contact** 

: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.

Ingestion

: Can cause central nervous system (CNS) depression. May be fatal if swallowed and

enters airways.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** 

: Adverse symptoms may include the following:

pain or irritation

watering redness

Inhalation

: Adverse symptoms may include the following:

respiratory tract irritation

coughing

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

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### Section 11. Toxicological information

**Skin contact**: Adverse symptoms may include the following:

irritation redness dryness cracking

**Ingestion** : Adverse symptoms may include the following:

nausea or vomiting

#### 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**: May cause damage to organs through prolonged or repeated exposure. Prolonged or

repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to

very low levels.

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**

Route	ATE value
Oral Inhalation (dusts and mists)	37405.9 mg/kg 112.2 mg/l

### Section 12. Ecological information

#### **Toxicity**

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### Section 12. Ecological information

Product/ingredient name	Result	Species	Exposure
vistillates (petroleum), hydrotreated light	Acute LC50 2200 μg/l Fresh water	Fish - Lepomis macrochirus	4 days
zinc oxide	Acute IC50 1.85 mg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute IC50 46 μg/l Fresh water	Algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 hours
	Acute LC50 98 μg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 1.1 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
zinc bis (dibutyldithiocarbamate)	Acute EC50 0.74 mg/l	Daphnia - Daphnia magna	48 hours
, , , , , , , , , , , , , , , , , , , ,	Acute LC50 520 mg/l	Fish - Oncorhynchus mykiss	96 hours

#### Persistence and degradability

Not available.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
zínc oxide	-	60960	high

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

### Section 13. Disposal considerations

#### **Disposal methods**

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

### Section 14. Transport information

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# Section 14. Transport information

	DOT Classification	IMDG	IATA
UN number	<b>⊮</b> N1950	UN1950	<b>№</b> N1950
UN proper shipping name	Aerosols (Limited quantity)	REROSOLS (Limited quantity)	Aerosols, flammable (Limited quantity)
Transport hazard class(es)	2.1 This product meets the Limited Quantity exemption.	7.1 This product meets the Limited Quantity exemption.	This product meets the Limited Quantity exemption.
Packing group	-	-	-
Environmental hazards	No.	Yes.	No.
Additional information	Packaging instruction Passenger aircraft Quantity limitation: 75 kg  Cargo aircraft Quantity limitation: 150 kg  Special provisions N82  Remarks Packaging: Limited quantity	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.  Emergency schedules (EmS) F-D, S-U  Special provisions 63, 190, 277, 327, 344, 959  Remarks  Packaging: Limited quantity	The environmentally hazardous substance mark may appear if required by other transportation regulations.  Passenger and Cargo Aircraft Quantity limitation: 75 kg Packaging instructions: 203 Cargo Aircraft Only Quantity limitation: 150 kg Packaging instructions: 203 Limited Quantities - Passenger Aircraft Quantity limitation: 30 kg Packaging instructions: Y203  Special provisions A145, A167, A802  Remarks Packaging: Limited quantity

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.

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# 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; antimony tris[O,O-dipropyl] tris

(dithiophosphate); zinc bis(dibutyldithiocarbamate)

Clean Air Act Section 112

(b) Hazardous Air Pollutants (HAPs)

: Listed

**Clean Air Act Section 602** 

: Not listed

**Class I Substances** 

. Not listed

Clean Air Act Section 602

: Not listed

**Class II Substances** 

**DEA List I Chemicals** (Precursor Chemicals)

: Not listed

DEA List II Chemicals

**A**1 (1) ( 1

(Essential Chemicals)

: Not listed

**SARA 302/304** 

**Composition/information on ingredients** 

No products were found.

SARA 304 RQ : Not applicable.

**SARA 311/312** 

Classification : Fire hazard

Sudden release of pressure Immediate (acute) health hazard Delayed (chronic) health hazard

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

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
istillates (petroleum), hydrotreated heavy naphthenic	≥25 - <50	No.	No.	No.	Yes.	No.
Distillates (petroleum), hydrotreated light naphthenic	≥25 - <50	No.	No.	No.	Yes.	No.
Distillates (petroleum), hydrotreated light	≥20 - <25	Yes.	No.	No.	Yes.	No.
zinc oxide	≥3 - <5	No.	No.	No.	Yes.	No.
antimony tris[O,O-dipropyl] tris (dithiophosphate)	≥1 - <2	No.	No.	No.	Yes.	Yes.
zinc bis(dibutyldithiocarbamate)	≥0.3 - <1	Yes.	No.	No.	Yes.	No.

#### **SARA 313**

	Product name	CAS number	%
Form R - Reporting requirements		1314-13-2 15874-48-3	≥3 - <5 ≥1 - <2
Supplier notification	Znc oxide antimony tris[O,O-dipropyl] tris(dithiophosphate)	1314-13-2 15874-48-3	≥3 - <5 ≥1 - <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.

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### Section 15. Regulatory information

#### State regulations

Massachusetts: The following components are listed: MINERAL OIL, PETROLEUM DISTILLATES,

HYDROTREATED LIGHT NAPHTHENIC; ZINC OXIDE FUME; CARBON BLACK;

LIQUIFIED PETROLEUM GAS (L.P.G.)

**New York** : None of the components are listed.

New Jersey : The following components are listed: MINERAL OIL; MINERAL OIL; ZINC OXIDE;

ANTIMONY compounds; CARBON BLACK; LIQUEFIED PETROLEUM GAS;

PETROLEUM GASES, LIQUEFIED; L.P.G; n-HEPTANE; HEPTANE

Pennsylvania: The following components are listed: ZINC OXIDE (ZNO); ANTIMONY COMPOUNDS;

CARBON BLACK; PETROLEUM GASES, LIQUEFIED

#### California Prop. 65

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

Ingredient name	Cancer	•	level	Maximum acceptable dosage level
carbon black non-respirable	Yes.	No.	No.	No.

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol (Annexes A, B, C, E)

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Inform Consent (PIC)

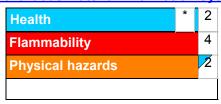
Not listed.

#### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

### **Section 16. Other information**

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



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings 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.

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

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### Section 16. Other information



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

#### Procedure used to derive the classification

Classification	Justification		
Fam. Aerosol 1, H222	On basis of test data		
Press. Gas Comp. Gas, H280	On basis of test data		
Skin Irrit. 2, H315	Calculation method		
Skin Sens. 1, H317	Calculation method		
STOT SE 3, H336	Calculation method		
STOT RE 2, H373 (cardiovascular system)	Calculation method		
Asp. Tox. 1, H304	Expert judgment		

#### **History**

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Prepared by : IHS

**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 73/78 = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

References : HCS (U.S.A.)- Hazard Communication Standard

International transport regulations

Indicates information that has changed from previously issued version.

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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