PRODUCT NAME: **ABRO Headlight Restoration Polish**
PRODUCT NUMBER/SIZE: **HR-237 / 8 oz.** **Rev Date: 7/30/2015**

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

GERM CELL MUTAGENICITY - Category 1B
CARCINOGENICITY - Category 1A
TOXIC TO REPRODUCTION (Fertility) - Category 2
TOXIC TO REPRODUCTION (Unborn child) - Category 2
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (central nervous system (CNS)) - Category 1

Label Pictogram(s):

Signal Word:	**DANGER**
Hazard Phrases:	May cause genetic defects. May cause cancer. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. (central nervous system (CNS))
Precautionary Phrases:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.
Response:	IF exposed or concerned: Get medical attention if you feel unwell.

Storage / Disposal: Store locked up. Dispose of contents and container in accordance with all local, regional, national and international regulations.

Other: Keep out of reach of children.

SECTION 3
Composition/Information on Ingredients

Substance/mixture: Mixture

Ingredient name	%	CAS number
5-10	5-10	-
Proprietary ingredient 6	5-10	-
Proprietary ingredient 5	5-10	-
Kerosene	1-5	8008-20-6
Paraffin oils (petroleum), catalytic dewaxed light	1-5	64742-71-8
Distillates (petroleum), hydrotreated heavy paraffinic	1-5	64742-54-7
2,2',2''-Nitrilotriethanol	1-5	102-71-6
Proprietary ingredient 8	1-5	-
Proprietary ingredient 9	0.1-1	-
Proprietary ingredient 13	0.1-1	-
Proprietary ingredient 12	0.1-1	-
Proprietary ingredient 11	0.1-1	-
Proprietary ingredient 10	0.1-1	-
2-Methyl-4-Isothiazolin-3-one	0.01-0.025	2682-20-4
1,2-Benzisothiazol-3(2H)-one	0.01-0.025	2634-33-5

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

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 20 minutes. Get medical attention.

SKIN CONTACT: Flush contaminated skin with plenty of water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

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 and effects, both 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 : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.

Over-exposure signs/symptoms
Eye contact : No known significant effects or critical hazards.

Inhalation: Adverse symptoms may include the following:
reduced fetal weight
increase in fetal deaths
skeletal malformations

Skin contact: Adverse symptoms may include the following:
reduced fetal weight
increase in fetal deaths
skeletal malformations

Ingestion: Adverse symptoms may include the following:
reduced fetal weight
increase in fetal deaths
skeletal malformations

Indication of any immediate medical attention and special treatment needed

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
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

Suitable Extinguishing Media: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media: None known.

Specific Hazards Arising from the Chemical: 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
nitrogen oxides
metal oxide/oxides

Special protective actions for fire-fighters: No special measures are required.

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. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. 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 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). Water polluting material. May be harmful to the environment if released in large quantities.

Methods and materials for containment and cleaning up
Spill: Stop leak if without risk. Move containers from spill area. 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.

SECTION 7
Handling and Storage

Precautions for safe handling

Protective measures: Put on appropriate personal protective equipment (see Section 8). Avoid exposure -obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. 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. See also Section 8 for additional information on hygiene measures. Remove contaminated clothing and protective equipment before entering eating areas.

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

SECTION 8
Exposure Controls/Personal Protection

Control parameters
Occupational exposure limits

Ingredient name	Exposure limits
Proprietary ingredient 7	**ACGIH TLV (United States).** TWA: 300 ppm 8 hours.
Proprietary ingredient 6	**OSHA PEL (United States, 2/2013).** TWA: 100 ppm 8 hours. TWA: 400 mg/m³ 8 hours. **OSHA PEL 1989 (United States, 3/1989).** TWA: 100 ppm 8 hours. TWA: 400 mg/m³ 8 hours.
Proprietary ingredient 5	**ACGIH TLV (United States, 3/2015).** TWA: 525 mg/m³ 8 hours. TWA: 100 ppm 8 hours. **NIOSH REL (United States, 10/2013).** CEIL: 1800 mg/m³ 15 minutes. TWA: 350 mg/m³ 10 hours. **OSHA PEL (United States, 2/2013).** TWA: 2900 mg/m³ 8 hours. TWA: 500 ppm 8 hours. **OSHA PEL 1989 (United States, 3/1989).** TWA: 100 ppm 8 hours. TWA: 525 mg/m³ 8 hours.
Kerosene	**NIOSH REL (United States, 10/2013).** TWA: 100 mg/m³ 10 hours. **ACGIH TLV (United States, 3/2015). Absorbed through skin.** TWA: 200 mg/m³, (as total hydrocarbon vapor) 8 hours.

Paraffin oils (petroleum), catalytic dewaxed light	**ACGIH TLV (United States, 3/2015).** 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 heavy paraffinic	**ACGIH TLV (United States, 3/2015).** 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: Mis **OSHA PEL (United States, 2/2013).** TWA: 5 mg/m³ 8 hours.
2,2',2''-Nitrilotriethanol	**ACGIH TLV (United States, 3/2015).** TWA: 5 mg/m³ 8 hours.
Proprietary ingredient 8	**ACGIH TLV (United States, 3/2015). Absorbed through skin.** TWA: 52 mg/m³ 8 hours. TWA: 10 ppm 8 hours. **NIOSH REL (United States, 10/2013).** STEL: 75 mg/m³ 15 minutes. STEL: 15 ppm 15 minutes. TWA: 50 mg/m³ 10 hours. TWA: 10 ppm 10 hours. **OSHA PEL (United States, 2/2013).** TWA: 50 mg/m³ 8 hours. TWA: 10 ppm 8 hours. **OSHA PEL 1989 (United States, 3/1989).** TWA: 10 ppm 8 hours. TWA: 50 mg/m³ 8 hours. STEL: 15 ppm 15 minutes. STEL: 75 mg/m³ 15 minutes.
Proprietary ingredient 9	**ACGIH TLV (United States, 3/2015).** TWA: 1050 mg/m³ 8 hours. TWA: 200 ppm 8 hours. **NIOSH REL (United States, 10/2013).** TWA: 1050 mg/m³ 10 hours. TWA: 200 ppm 10 hours. **OSHA PEL 1989 (United States, 3/1989).** TWA: 200 ppm 8 hours. TWA: 1050 mg/m³ 8 hours.
Proprietary ingredient 13	**ACGIH TLV (United States, 3/2015).** TWA: 20 ppm 8 hours. **NIOSH REL (United States, 10/2013).** STEL: 545 mg/m³ 15 minutes. STEL: 125 ppm 15 minutes. TWA: 435 mg/m³ 10 hours. TWA: 100 ppm 10 hours. **OSHA PEL (United States, 2/2013).** TWA: 435 mg/m³ 8 hours. TWA: 100 ppm 8 hours. **OSHA PEL 1989 (United States, 3/1989).** TWA: 100 ppm 8 hours. TWA: 435 mg/m³ 8 hours. STEL: 125 ppm 15 minutes. STEL: 545 mg/m³ 15 minutes.
Proprietary ingredient 12	**ACGIH TLV (United States, 3/2015). Absorbed through skin.** STEL: 8 mg/m³ 15 minutes. STEL: 2.5 ppm 15 minutes. TWA: 1.6 mg/m³ 8 hours. TWA: 0.5 ppm 8 hours.

	NIOSH REL (United States, 10/2013). STEL: 1 ppm 15 minutes. TWA: 0.1 ppm 10 hours. **OSHA PEL (United States, 2/2013).** STEL: 5 ppm 15 minutes. TWA: 1 ppm 8 hours. **OSHA PEL Z2 (United States, 2/2013).** AMP: 50 ppm 10 minutes. CEIL: 25 ppm TWA: 10 ppm 8 hours. **OSHA PEL 1989 (United States, 3/1989).** TWA: 1 ppm 8 hours. STEL: 5 ppm 15 minutes.
Proprietary ingredient 11	**ACGIH TLV (United States, 3/2015). Absorbed through skin.** TWA: 50 ppm 8 hours. **NIOSH REL (United States, 10/2013).** TWA: 180 mg/m³ 10 hours. TWA: 50 ppm 10 hours. **OSHA PEL (United States, 2/2013).** TWA: 1800 mg/m³ 8 hours. TWA: 500 ppm 8 hours. **OSHA PEL 1989 (United States, 3/1989).** TWA: 50 ppm 8 hours. TWA: 180 mg/m³ 8 hours.
Proprietary ingredient 10	**NIOSH REL (United States, 10/2013).** STEL: 560 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 375 mg/m³ 10 hours. TWA: 100 ppm 10 hours. **OSHA PEL Z2 (United States, 2/2013).** AMP: 500 ppm 10 minutes. CEIL: 300 ppm TWA: 200 ppm 8 hours. **ACGIH TLV (United States, 3/2015).** TWA: 20 ppm 8 hours. **OSHA PEL 1989 (United States, 3/1989).** TWA: 100 ppm 8 hours. TWA: 375 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 560 mg/m³ 15 minutes.

Appropriate engineering controls: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

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 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, air-purifying or supplied air 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	Liquid
Color	Light Blue
Odor	None
Odor threshold	NA
pH	7.1 to 9.1 [Conc. (% w/w): 100%]
Melting point	NA
Boiling point	Not available
Flash point	Closed cup: >93°C (>199.4°F)
Evaporation rate	NA
Flammability (solid, gas)	NA
Lower and upper explosive (flammable) limits	NA
Vapor pressure	NA
Vapor density	NA
Relative density	NA
Solubility	Slight
Partition coefficient: n-octanol/water	NA
Auto-ignition temperature	NA
Decomposition temperature	NA
Viscosity	NA
Volatility	NA

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
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

Informationontoxicologicaleffects

Acutetoxicity

Product/ingredient name	Result	Species	Dose	Exposure
Proprietary ingredient 7	LC50 Inhalation Vapor	Rat	8500 mg/m³	4 hours
	LD50 Oral	Rat	>6 g/kg	-
Kerosene	LD50 Oral	Rat	15 g/kg	-
2,2',2''-Nitrilotriethanol	LD50 Oral	Rat	7.39 g/kg	-
Proprietary ingredient 8	LD50 Dermal	Rabbit	>20 g/kg	-
	LD50 Oral	Rat	490 mg/kg	-
Proprietary ingredient 9	LC50 Inhalation Gas.	Rat	3200 ppm	4 hours
	LC50 Inhalation Vapor	Rat	17000 mg/m³	4 hours
Proprietary ingredient 13	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
Proprietary ingredient 12	LD50 Oral	Rat	930 mg/kg	-
Proprietary ingredient 11	LC50 Inhalation Gas.	Rat	48000 ppm	4 hours
	LD50 Oral	Rat	15840 mg/kg	-
Proprietary ingredient 10	LC50 Inhalation Vapor	Rat	49 g/m³	4 hours
	LD50 Oral	Rat	636 mg/kg	-
1,2-Benzisothiazol-3(2H)-one	LD50 Oral	Rat	1020 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Proprietary ingredient 5	Eyes - Moderate irritant	Rabbit	-	24 hours 500 mg	-
	Eyes - Mild irritant	Human	-	100 ppm	-
Kerosene	Skin - Severe irritant	Rabbit	-	500 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 100 %	-
	Skin - Moderate irritant	Rabbit	-	0.5 ml	-
2,2',2"-Nitrilotriethanol	Eyes - Mild irritant	Rabbit	-	10 mg	-
	Eyes - Severe irritant	Rabbit	-	20 mg	-
	Skin - Mild irritant	Human	-	72 hours 15 mg Intermittent	-
	Skin - Severe irritant	Mouse	-	50 %	-
	Skin - Mild irritant	Rabbit	-	24 hours 560 mg	-
	Skin - Mild irritant	Rabbit	-	495 mg	-
Proprietary ingredient 8	Skin - Severe irritant	Rabbit	-	24 hours 0.05 ml	-
	Skin - Mild irritant	Pig	-	24 hours 250 µL	-
Proprietary ingredient 9	Skin - Moderate irritant	Rat	-	96 hours 300 µL	-
	Eyes - Severe irritant	Rabbit	-	500 mg	-
Proprietary ingredient 13	Skin - Mild irritant	Rabbit	-	24 hours 15 mg	-
	Eyes - Moderate irritant	Rabbit	-	88 mg	-
Proprietary ingredient 12	Skin - Moderate irritant	Rabbit	-	24 hours 20 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 2 mg	-
	Skin - Mild irritant	Rat	-	8 hours 60 µL	-
	Skin - Mild irritant	Rabbit	-	24 hours 15 mg	-
	Eyes - Mild irritant	Rabbit	-	10 mg	-
Proprietary ingredient 11	Eyes - Mild irritant	Rabbit	-	0.5 minutes 100 mg	-
Proprietary ingredient 10	Skin - Moderate irritant	Rabbit	-	24 hours 20 mg	-
	Eyes - Mild irritant	Rabbit	-	870 µg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 2 mg	-
	Skin - Mild irritant	Pig	-	24 hours 250 µL	-
	Skin - Mild irritant	Rabbit	-	435 mg	-
	Skin - Moderate irritant	Rabbit	-	500 mg	-
1,2-Benzisothiazol-3(2H)-one	Skin - Mild irritant	Human	-	48 hours 5 %	-

Sensitization

There is no data available.

Carcinogenicity Classification

Product/ingredient name	OSHA	IARC	NTP	ACGIH	EPA	NIOSH
Kerosene	-	3	-	A3	-	-
Paraffin oils (petroleum), catalytic dewaxed light	-	-	-	A4	-	-
Distillates (petroleum), hydrotreated heavy paraffinic	-	-	-	A4	-	-
2,2',2"-Nitrilotriethanol	-	3	-	-	-	-
Proprietary ingredient 8	-	2B	Reasonably anticipated to be a human carcinogen.	A3	-	None.
Proprietary ingredient 13	-	2B	-	A3	-	None.
Cumene	-	2B	Reasonably anticipated to be a human carcinogen.	-	-	-
Proprietary ingredient 12	+	1	Known to be a human carcinogen.	A1	-	+

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Proprietary ingredient 7	Category 3	Not applicable.	Narcotic effects
Proprietary ingredient 9	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Proprietary ingredient 11	Category 3	Not applicable.	Narcotic effects
Proprietary ingredient 10	Category 3	Not applicable.	Narcotic effects
2-Methyl-4-Isothiazolin-3-one	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Proprietary ingredient 6	Category 1	Not determined	central nervous system (CNS)
Proprietary ingredient 12	Category 1	Not determined	Not determined
Proprietary ingredient 11	Category 2	Not determined	Not determined
Proprietary ingredient 10	Category 2	Not determined	Not determined

Aspiration hazard

Name	Result
Proprietary ingredient 7	ASPIRATION HAZARD - Category 1
Proprietary ingredient 6	ASPIRATION HAZARD - Category 1
Proprietary ingredient 5	ASPIRATION HAZARD - Category 1
Kerosene	ASPIRATION HAZARD - Category 1
Distillates (petroleum), hydrotreated heavy paraffinic	ASPIRATION HAZARD - Category 1
Proprietary ingredient 9	ASPIRATION HAZARD - Category 1
Proprietary ingredient 12	ASPIRATION HAZARD - Category 1
Proprietary ingredient 11	ASPIRATION HAZARD - Category 1
Proprietary ingredient 10	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure: Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects
Eye contact : No known significant effects or critical hazards.
Inhalation : No known significant effects or critical hazards.
Skin contact : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics
Eye contact : No known significant effects or critical hazards.
Inhalation Adverse symptoms may include the following:
reduced fetal weight
increase in fetal deaths
skeletal malformations
Skin contact Adverse symptoms may include the following:
reduced fetal weight
increase in fetal deaths
skeletal malformations
Ingestion Adverse symptoms may include the following:
reduced fetal weight
increase in fetal deaths
skeletal malformations

Delayed and immediate effects and also chronic effects from short and long term exposure
Short term exposure
Potential immediate effects: No known significant effects or critical hazards.
Potential delayed effects : No known significant effects or critical hazards.

Long term exposure
Potential immediate effects: No known significant effects or critical hazards.
Potential delayed effects : No known significant effects or critical hazards.

Potential chronic health effects
General : Causes damage to organs through prolonged or repeated exposure.
Carcinogenicity : May cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity : May cause genetic defects.
Teratogenicity : Suspected of damaging the unborn child.
Developmental effects : No known significant effects or critical hazards.
Fertility effects : Suspected of damaging fertility.

Numerical measures of toxicity
Acute toxicity estimates
There is no data available.

SECTION 12
Ecological Information

Toxicity

Product/ingredient name	Result	Species	Exposure
2,2',2''-Nitrilotriethanol	Acute EC50 609.98 mg/L Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 11800000 µg/L Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 16000 µg/L Fresh water	Daphnia - Daphnia magna	21 days
Proprietary ingredient 8	Acute EC50 1600 µg/L Fresh water Acute	Daphnia - Daphnia magna - Neonate	48 hours
	LC50 2350 µg/L Marine water Acute LC50	Crustaceans - Palaemonetes pugio Fish -	48 hours
Proprietary ingredient 13	213 µg/L Fresh water	Melanotaenia fluviatilis - Larvae	96 hours
	Acute EC50 4600 µg/L Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 3600 µg/L Fresh water Acute	Algae - Pseudokirchneriella subcapitata	96 hours
	EC50 6530 µg/L Fresh water Acute EC50	Crustaceans - Artemia sp. - Nauplii Daphnia	48 hours
	2970 µg/L Fresh water Acute LC50 4200	- Daphnia magna - Neonate Fish -	48 hours
	µg/L Fresh water Acute EC50 29000 µg/L	Oncorhynchus mykiss	96 hours
	Fresh water Acute EC50 1600000 µg/L	Algae - Pseudokirchneriella subcapitata	72 hours
Proprietary ingredient 12	Fresh water Acute EC50 9230 µg/L Fresh	Algae - Selenastrum sp.	96 hours
	water Acute LC50 21000 µg/L Marine water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 5.28 ul/L Fresh water Chronic	Crustaceans - Artemia salina - Nauplii	48 hours
	NOEC 98 mg/L Fresh water	Fish - Oncorhynchus gorbuscha - Fry	96 hours
	Chronic NOEC 1.5 to 5.4 ul/L Marine water	Daphnia - Daphnia magna	21 days
		Fish - Morone saxatilis - Juvenile (Fledgling, Hatchling, Weanling)	4 weeks

Proprietary ingredient 11	Acute LC50 113000 µg/L Fresh water	Fish - Oreochromis mossambicus	96 hours
Proprietary ingredient 10	Acute EC50 12500 µg/L Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 11600 µg/L Fresh water	Crustaceans - Gammarus pseudolimnaeus - Adult	48 hours
2-Methyl-4-Isothiazolin-3-one	Acute EC50 6000 µg/L Fresh water	Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
1,2-Benzisothiazol-3(2H)-one	Acute LC50 5500 µg/L Fresh water	Fish - Oncorhynchus kisutch - Fry	96 hours
	Chronic NOEC 1000 µg/L Fresh water	Daphnia - Daphnia magna	21 days
	Acute EC50 0.18 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 0.07 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Acute EC50 97 ppb Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 >10 mg/L Fresh water	Crustaceans - Ceriodaphnia dubia	48 hours
	Acute LC50 167 ppb Fresh water	Fish - Oncorhynchus mykiss	96 hours

Persistence and degradability
There is no data available.

Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
Proprietary ingredient 7	-	10 to 2500	high
Proprietary ingredient 5	3.16 to 7.06	-	high
2,2',2''-Nitrilotriethanol	-1	<3.9	low
Proprietary ingredient 8	3.4	36.5 to 168	low
Proprietary ingredient 9	5.65	105	low
Proprietary ingredient 13	3.6	-	low
Proprietary ingredient 12	2.13	11	low
Proprietary ingredient 11	4	501.187	high
Proprietary ingredient 10	2.73	90	low

Mobility in soil
Soil/water partition coefficient (K_{OC}): 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 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 (TDG)	UN/ID Number: Not Regulated Proper shipping name: Hazard class: Packing Group: Exceptions: Environmental Hazards: Transport in Bulk: Special Precautions:
Europe (ADR/RID)	UN/ID Number: Not Regulated Proper shipping name: Hazard class: Packing Group: Exceptions: Environmental Hazards: Transport in Bulk: Special Precautions:

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

U.S. Federal regulations:
TSCA 4(a) final test rules: Proprietary ingredient 9
TSCA 8(a) PAIR: Proprietary ingredient 8; Proprietary ingredient 9
TSCA 8(a) CDR Exempt/Partial exemption: Not determined
Commerce control list precursor: 2,2',2''-Nitrilotriethanol
United States inventory (TSCA 8b): Not determined.
Clean Water Act (CWA) 307: Proprietary ingredient 8; Proprietary ingredient 13; Proprietary ingredient 12; Proprietary ingredient 10
Clean Water Act (CWA) 311: Proprietary ingredient 8; Proprietary ingredient 13; Xylene; Proprietary ingredient 12; Proprietary ingredient 10

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs): Not listed

Clean Air Act Section 602 Class I Substances: Not listed

Clean Air Act Section 602 Class II Substances: Not listed

DEA List I Chemicals (Precursor Chemicals): Not listed

SARA 302/304
Composition/information on ingredients
No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312
Classification : Immediate (acute) health hazard

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Proprietary ingredient 7	Proprietary	Yes.	No.	No.	Yes.	No.
Proprietary ingredient 6	Proprietary	No.	No.	No.	No.	Yes.
Proprietary ingredient 5	Proprietary	Yes.	No.	No.	No.	No.
Kerosene	1 - 5	Yes.	No.	No.	No.	No.
Paraffin oils (petroleum), catalytic dewaxed light	1 - 5	No.	No.	No.	No.	Yes.
2,2',2''-Nitrilotriethanol	1 - 5	No.	No.	No.	Yes.	No.
Proprietary ingredient 8	Proprietary	Yes.	No.	No.	Yes.	Yes.
Proprietary ingredient 9	Proprietary	Yes.	No.	No.	Yes.	No.
Proprietary ingredient 13	Proprietary	Yes.	No.	No.	Yes.	Yes.
Proprietary ingredient 12	Proprietary	Yes.	No.	No.	Yes.	Yes.
Proprietary ingredient 11	Proprietary	Yes.	No.	No.	Yes.	Yes.
Proprietary ingredient 10	Proprietary	Yes.	No.	No.	Yes.	Yes.
2-Methyl-4-Isothiazolin-3-one	0.01 - 0.025	No.	No.	No.	Yes.	No.
1,2-Benzisothiazol-3(2H)-one	0.01 - 0.025	No.	No.	No.	Yes.	No.

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	Proprietary ingredient 8 Proprietary ingredient 13 Proprietary ingredient 12	- - -	Proprietary Proprietary Proprietary
Supplier notification	Proprietary ingredient 8 Proprietary ingredient 13 Proprietary ingredient 12	- - -	Proprietary Proprietary Proprietary

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: 2,2',2''-Nitrilotriethanol; Glycerol; Paraffin oils (petroleum), catalytic dewaxed light; Kerosene; Proprietary ingredient 5

New York The following components are listed: Proprietary ingredient 8; Proprietary ingredient 13; Proprietary ingredient 12; Cumene

New Jersey The following components are listed: 2,2',2''-Nitrilotriethanol; Glycerol; Distillates (petroleum), hydrotreated heavy paraffinic; Paraffin oils (petroleum), catalytic dewaxed light; Kerosene; Proprietary ingredient 8; Proprietary ingredient 13; Proprietary ingredient 12; Cumene; Proprietary ingredient 5

Pennsylvania The following components are listed: 2,2',2''-Nitrilotriethanol; Glycerol; Kerosene; Proprietary ingredient 8; Proprietary ingredient 13; Proprietary ingredient 12; Cumene; Proprietary ingredient 5

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer.
WARNING: This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Naphthalene	Yes.	No.	Yes.	No.
Ethylbenzene	Yes.	No.	41 µg/day (ingestion) 54 µg/day (inhalation)	No.
Toluene	No.	Yes.	No.	7000 µg/day (ingestion) 13000 µg/day (inhalation)
Cumene	Yes.	No.	No.	No.
Benzene	Yes.	Yes.	6.4 µg/day (ingestion) 13 µg/day (inhalation)	24 µg/day (ingestion) 49 µg/day (inhalation)

SECTION 16
Other Information

The supplier disclaims all expressed or implied warranties of merchantability or fitness for a specific use, with respect to the product or the information provided herein, except for conformation to contracted specifications. All information appearing herein is based upon data obtained from manufacturers and/or recognized technical sources. While the information is believed to be accurate, we make no representations as to its accuracy or sufficiency. Conditions of use are beyond our control, and therefore users are responsible for verifying the data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and

disposal of the product. Users also assume all risks in regards to the publication or use of, or reliance upon, information contained herein.

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

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