

Rust Destroyer (Aerosol)

73013 (340 g)

SDS Preparation Date (mm/dd/yyyy): 03/12/2018

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SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product identifier used on the label

: **Rust Destroyer (Aerosol)**

Product Code(s) : 73013 (340 g)

Recommended use of the chemical and restrictions on use

: Primer coating (aerosol); Rust preventative.
No restrictions on use known.

Chemical family : Mixture of: Petroleum distillates; Propellant; Ketones; Hydrocarbons; Sodium salts

Name, address, and telephone number of the supplier:

NLS Products

Box 790, 1 Lakewood Crescent
Bobcaygeon, ON, Canada
K0M 1A0

Supplier's Telephone # : (705) 738-2321

24 Hr. Emergency Tel # : No information available.

Name, address, and telephone number of the manufacturer:

Refer to supplier

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Red colored liquid, contained in pressurized aerosol can. Solvent odor.

Most important hazards:

Extremely flammable aerosol. May be ignited by open flames and sparks. Contents under pressure. Container may explode if heated.

Aspiration hazard. Can enter the lungs and cause damage. Causes serious eye irritation. Inhalation may cause central nervous system depression. Occupational exposure to the substance or mixture may cause adverse effects. For further information, please refer to section 11 of the SDS.

Harmful to aquatic life with long lasting effects. Avoid release to the environment. See Section 12 for more environmental information.

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification:

Flammable aerosol - Category 1

Gases under pressure

Aspiration toxicity - Category 1

Eye damage/irritation - Category 2A

Specific target organ toxicity, single exposure - Category 3 (Narcotic effects)

Label elements

Hazard pictogram(s)



Signal Word
DANGER!

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Hazard statement(s)

Extremely flammable aerosol.
Contains gas under pressure; may explode if heated.
May be fatal if swallowed and enters airways.
Causes serious eye irritation.
May cause drowsiness or dizziness.

Precautionary statement(s)

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources - No smoking.
Do not spray on an open flame or other ignition source.
Pressurized container: Do not pierce or burn, even after use.
Avoid breathing mist or vapor.
Wash exposed skin thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear eye/face protection.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

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/attention.

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Dispose of contents/container in accordance with local regulation.

Other hazards

Other hazards which do not result in classification:

Toxic fumes may be released during a fire. Prolonged or repeated contact may cause drying, cracking and defatting of the skin. Ingestion of larger amounts may cause defects to the central nervous system (e.g. dizziness, headache). Prolonged overexposure may cause slight liver and kidney effects, such as increased organ weights.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

<u>Chemical name</u>	<u>Common name and synonyms</u>	<u>CAS #</u>	<u>Concentration (% by weight)</u>
Propane	Dimethylmethane Propyl hydride	74-98-6	15.847
Acetone	2-Propanone Methyl ketone	67-64-1	15.246
Solvent naphtha (petroleum), light aliphatic	Naphtha	64742-89-8	14.954
Naphtha (petroleum), hydrotreated heavy	Odorless mineral spirits	64742-48-9	9.24
Isobutane	2-Methylpropane Trimethylmethane	75-28-5	7.153
Solvent naphtha (petroleum), medium aliphatic	White spirit stoddard solvent	64742-88-7	6.93
N-Octane	Octane	111-65-9	0.231
n-Heptane	Dipropylmethane Heptyl hydride	142-82-5	0.179
Sodium nitrite	Nitrous acid sodium salt	7632-00-0	0.154



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SECTION 4. FIRST-AID MEASURES

Description of first aid measures

- Ingestion* : IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration.
- Inhalation* : IF INHALED: Remove person to fresh air and keep comfortable for breathing. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing stops, provide artificial respiration. Call a POISON CENTER or doctor/physician if you feel unwell.
- Skin contact* : For skin contact, wash with soap and water while removing contaminated clothing. If irritation or symptoms develop, seek medical attention. Launder clothing before reuse.
- Eye contact* : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Flush eyes with water for at least 15 minutes. If eye irritation persists: get medical advice/attention.

Most important symptoms and effects, both acute and delayed

- : May be fatal if swallowed and enters airways. Aspiration hazard Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.
- Inhalation may cause headache, nausea and central nervous effects such as dizziness, coordination difficulties and unconsciousness.
- Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
- Mild respiratory irritant. May cause coughing and breathing difficulties.
- Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Ingestion of larger amounts may cause defects to the central nervous system (e.g. dizziness, headache).
- Prolonged or repeated contact may cause drying, cracking and defatting of the skin.
- Prolonged overexposure may cause slight liver and kidney effects, such as increased organ weights.

Indication of any immediate medical attention and special treatment needed

- : Immediate medical attention is required. Product may present an aspiration hazard, if ingested in large amounts, causing life-threatening lung injury.
- Provide general supportive measures and treat symptomatically.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

- Suitable extinguishing media* : Carbon dioxide (CO₂); Dry chemical; Alcohol resistant foam; Water fog.
- Unsuitable extinguishing media* : Do not use a solid water stream as it may scatter and spread fire.

Special hazards arising from the substance or mixture / Conditions of flammability

- : Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Material will float on water and can be re-ignited at the water's surface. This product is contained under pressure, and could explode when exposed to heat and flame. Toxic fumes, gases or vapors may evolve on burning.

Flammability classification (OSHA 29 CFR 1910.106)

- : Flammable aerosol - Category 1

Hazardous combustion products

- : Carbon oxides; Reactive hydrocarbons; Aldehydes; Nitrogen oxides (NO_x); Other unidentified organic compounds.

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Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

- : Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Special fire-fighting procedures

- : Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Shield personnel to protect from venting or rupturing containers. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

- : Keep people away from and upwind of spill/leak. Restrict access to area until completion of clean-up. Wear appropriate protective equipment. Refer to protective measures listed in sections 7 and 8.

Environmental precautions

- : Prevent product from entering drains, sewers, waterways and soil. Avoid release to the environment.

Methods and material for containment and cleaning up

- : Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Use only non-sparking tools. For spilled liquids: absorb spill with inert, non-combustible material such as sand, then place into suitable containers. Do not use combustible absorbents, such as sawdust. Pick up and transfer to properly labeled containers. Contaminated absorbent material may pose the same hazards as the spilled product. Contact the proper local authorities. Refer to Section 13 for disposal of contaminated material.

Special spill response procedures

- : If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802).
US CERCLA Reportable quantity (RQ): Acetone (5000 lbs / 2270 kg); Sodium nitrite (100 lbs / 45.4 kg)

In Canada: Contact appropriate local and provincial environmental authorities for assistance and/or reporting requirements.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

- : Use only outdoors or in a well-ventilated area. Wear suitable protective equipment during handling. Wear eye/face protection. Avoid breathing mist or vapor. Avoid contact with skin, eyes and clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources - No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Keep away from incompatibles. Always replace cap after use. Wash thoroughly after handling.

Conditions for safe storage

- : Store in cool/well-ventilated place. Store locked up. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking. Have appropriate fire extinguishers and spill clean-up equipment in or near storage area. Protect from sunlight and do not expose to temperatures exceeding 50 °C/122 °F. Keep away from incompatibles.

Incompatible materials

- : Strong oxidizing agents; Halogenated compounds; Reducing agents

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SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:				
<u>Chemical Name</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
Propane	N/Av	N/Av	1000 ppm (1800 mg/m ³)	N/Av
Acetone	250 ppm	500 ppm	1000 ppm (2400 mg/m ³)	N/Av
Solvent naphtha (petroleum), light aliphatic	N/Av	N/Av	500 ppm (2000 mg/m ³) (as petroleum distillates, naphtha)	N/Av
Naphtha (petroleum), hydrotreated heavy	N/Av	N/Av	N/Av	N/Av
Isobutane	1000 ppm (as 'Butane, all isomers')	N/Av	N/Av	N/Av
Solvent naphtha (petroleum), medium aliphatic	N/Av	N/Av	500 ppm (2000 mg/m ³) (as petroleum distillates, naphtha)	N/Av
N-Octane	300 ppm (as 'Octane, all isomers')	N/Av	500 ppm (2350 mg/m ³)	N/Av
n-Heptane	400 ppm	500 ppm	500 ppm (2000 mg/m ³)	N/Av
Sodium nitrite	N/Av	N/Av	N/Av	N/Av

Exposure controls

Ventilation and engineering measures

- : Use only outdoors or in a well-ventilated area. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of insufficient ventilation wear suitable respiratory equipment.

Respiratory protection

- : If airborne concentrations are above the permissible exposure limit or are not known, use NIOSH-approved respirators. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02. Advice should be sought from respiratory protection specialists.

Skin protection

- : Gloves impervious to the material are recommended. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Depending on conditions of use, an impervious apron should be worn.

Eye / face protection

- : Wear eye/face protection. Wear as appropriate: Tightly fitting safety goggles; Safety glasses with side shields. A full face shield may also be necessary.

Other protective equipment

- : Ensure that eyewash stations and safety showers are close to the workstation location. Other equipment may be required depending on workplace standards.



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General hygiene considerations

- : Avoid breathing mist or vapor. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Red colored liquid, contained in pressurized aerosol can.

Odor : Solvent odor.

Odor threshold : N/Av

pH : N/Av

Melting/Freezing point : N/Av

Initial boiling point and boiling range

: 132.12°C (269.81°F) (estimation)

Flash point : - 104.4°C (- 156°F) (propellant)

Flashpoint (Method) : N/Av

Evaporation rate (BuAe = 1) : N/Av

Flammability (solid, gas) : Not applicable.

Lower flammable limit (% by vol.)

: N/Av

Upper flammable limit (% by vol.)

: N/Av

Oxidizing properties : None known.

Explosive properties : Aerosols are sensitive to mechanical impact. Closed containers are contained under pressure and may explode if exposed to excess heat for a prolonged period of time.

Vapor pressure : N/Av

Vapor density : N/Av

Relative density / Specific gravity

: 0.249 (estimated)

Solubility in water : N/Av

Other solubility(ies) : N/Av

Partition coefficient: n-octanol/water or Coefficient of water/oil distribution

: N/Av

Auto-ignition temperature : 352.2°C (665.96°F) (estimation)

Decomposition temperature : N/Av

Viscosity : N/Av

Volatiles (% by weight) : N/Av

Volatile organic Compounds (VOC's)

: N/Av

Absolute pressure of container

: N/Av

Flame projection length : N/Av

Other physical/chemical comments

: No additional information.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not normally reactive.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions

: Hazardous polymerization does not occur.

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- Conditions to avoid** : Direct sources of heat. Do not use in areas without adequate ventilation. Avoid contact with incompatible materials. Protect from sunlight and do not expose to temperatures exceeding 50 °C/122 °F.
- Incompatible materials** : Strong oxidizing agents; Halogenated compounds; Reducing agents
- Hazardous decomposition products** : None known, refer to hazardous combustion products in Section 5.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

- Routes of entry inhalation** : YES
- Routes of entry skin & eye** : YES
- Routes of entry Ingestion** : YES
- Routes of exposure skin absorption** : YES

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

- : Mild respiratory irritant. May cause coughing and breathing difficulties. May cause central nervous system effects. In extremely high concentrations, product may act as an asphyxiant and cause increased breathing and pulse rates, fatigue and unconsciousness.

Sign and symptoms ingestion

- : May be fatal if swallowed and enters airways. Aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal. Ingestion of larger amounts may cause defects to the central nervous system (e.g. dizziness, headache).

Sign and symptoms skin

- : May cause mild skin irritation. May be absorbed through the skin. If product is sprayed directly on skin, symptoms of frostbite may be experienced including numbness, prickling and itching.

Sign and symptoms eyes

- : Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling and blurred vision. If product is sprayed directly into the eyes, could cause freezing of the eye.

Potential Chronic Health Effects

- : Prolonged or repeated skin exposure may cause redness, a burning sensation, drying and cracking of the skin (dermatitis). Prolonged overexposure may cause slight kidney effects, such as increased organ weight.

Mutagenicity

- : No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity

- : Not classifiable as a human carcinogen.
No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

Reproductive effects & Teratogenicity

- : This product is not expected to cause reproductive or developmental effects.

Sensitization to material

- : No data available to indicate product or components may be skin sensitizers.
No data available to indicate product or components may be respiratory sensitizers.

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Specific target organ effects : This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification:
Specific target organ toxicity, single exposure - Category 3. May cause drowsiness or dizziness.

According to the classification criteria of U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015), this product is not expected to cause target organ toxicity through repeated exposures.

Medical conditions aggravated by overexposure

: Pre-existing skin, eye, respiratory and central nervous system disorders.

Synergistic materials

: None known or reported by the manufacturer.

Toxicological data

: Not classified for acute toxicity based on available data. No data is available on the product itself. The calculated ATE values for this mixture are:
ATE oral = 116,883 mg/kg
ATE inhalation (vapors) = 102.67 mg/L/4H

See below for individual ingredient acute toxicity data.

<u>Chemical name</u>	<u>LC₅₀ (4hr)</u>	<u>LD₅₀</u>	
	<u>inh, rat</u>	<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Propane	N/Av	N/Av (gas)	N/Av (gas)
Acetone	30 000 ppm (71 mg/L) (vapor)	5800 mg/kg	> 15 800 mg/kg
Solvent naphtha (petroleum), light aliphatic	> 23 mg/L (vapor)	> 8000 mg/kg	> 4000 mg/kg
Naphtha (petroleum), hydrotreated heavy	> 5.04 mg/L (vapor)	> 7000 mg/kg	> 2000 mg/kg (No mortality)
Isobutane	368 000 ppm (mouse)	N/Av (gas)	N/Av (gas)
Solvent naphtha (petroleum), medium aliphatic	> 5.5 mg/L (vapor)	> 5000 mg/kg (No mortality)	> 2000 mg/kg (No mortality)
N-Octane	25,250 ppm (118 mg/L) (vapor)	> 15,000 mg/kg	> 2000 mg/kg (No mortality)
n-Heptane	25 000 ppm (102.5 mg/L) (vapor)	> 15 000 mg/kg	> 2000 mg/kg (No mortality)
Sodium nitrite	5.5 mg/L (dust)	180 mg/kg	N/Av

Other important toxicological hazards

: None known or reported by the manufacturer.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity : Harmful to aquatic life with long lasting effects. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters. The product contains the following substances which are hazardous for the environment:
Naphtha (petroleum), hydrotreated heavy; Solvent naphtha (petroleum), medium aliphatic; n-Octane; n-Heptane; Sodium nitrite.

See the following tables for individual ingredient ecotoxicity data.

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Ecotoxicity data:

<u>Ingredients</u>	CAS No	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
Propane	74-98-6	N/Ap	N/Ap	N/Ap
Acetone	67-64-1	6210 mg/L (Fathead minnow)	N/Av	None.
Solvent naphtha (petroleum), light aliphatic	64742-89-8	8.2 mg/L (Fathead minnow)	N/Av	None.
Naphtha (petroleum), hydrotreated heavy	64742-48-9	8.2 mg/L (Fathead minnow)	N/Av	None.
Isobutane	75-28-5	N/Ap	N/Ap	N/Ap
Solvent naphtha (petroleum), medium aliphatic	64742-88-7	2 - 5 mg/L (Rainbow trout)	0.098 mg/L/28-day (QSAR) (NOEL)	None.
N-Octane	111-65-9	2.587 mg/L (Rainbow trout) (QSAR)	0.579 mg/L/28-day (QSAR)	None.
n-Heptane	142-82-5	5.738 mg/L (Rainbow trout)	1.284 mg/L/28-day (Rainbow trout)	None.
Sodium nitrite	7632-00-0	0.54 mg/L (Rainbow trout)	N/Av	1

<u>Ingredients</u>	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Propane	74-98-6	N/Ap	N/Ap	N/Ap
Acetone	67-64-1	15 800 mg/L (Daphnia magna)	1660 mg/L	None.
Solvent naphtha (petroleum), light aliphatic	64742-89-8	32 mg/L (Daphnia magna)	2.6 mg/L	None.
Naphtha (petroleum), hydrotreated heavy	64742-48-9	32 mg/L (Daphnia magna)	6.3 mg/L	None.
Isobutane	75-28-5	N/Ap	N/Ap	N/Ap
Solvent naphtha (petroleum), medium aliphatic	64742-88-7	1.4 mg/L (Daphnia magna)	0.48 mg/L (QSAR) (NOEL)	None.
N-Octane	111-65-9	0.3 mg/L (Daphnia magna)	1.0 mg/L (Read-across)	1
n-Heptane	142-82-5	0.2 mg/L Chaetogammarus marinus (Water flea)	0.06 - 0.23 mg/L	1
Sodium nitrite	7632-00-0	15.4 mg/L (Daphnia magna)	N/Av	None.

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<u>Ingredients</u>	<u>CAS No</u>	<u>Toxicity to Algae</u>		
		<u>EC50 / 96h or 72h</u>	<u>NOEC / 96h or 72h</u>	<u>M Factor</u>
Propane	74-98-6	N/Ap	N/Ap	N/Ap
Acetone	67-64-1	7000 mg/L/96hr (Green algae)	N/Av	None.
Solvent naphtha (petroleum), light aliphatic	64742-89-8	45 mg/L/96hr (Green algae)	18 mg/L/96hr (NOEL)	None.
Naphtha (petroleum), hydrotreated heavy	64742-48-9	45 mg/L/96hr (Green algae)	18 mg/L/96hr	None.
Isobutane	75-28-5	N/Ap	N/Ap	N/Ap
Solvent naphtha (petroleum), medium aliphatic	64742-88-7	1 - 3 mg/L/72hr (Green algae)	1 mg/L/72hr (Green algae) (NOEL)	None.
N-Octane	111-65-9	2.084 mg/L/72hr (Green algae) (QSAR)	0.466 mg/L/72hr (QSAR)	None.
n-Heptane	142-82-5	4.338 mg/L/72hr (Green algae)	0.97 mg/L/72hr	None.
Sodium nitrite	7632-00-0	≥ 100 mg/L/72hr (Green algae)	100 mg/L/72hr	None.

Persistence and degradability

- : The product itself has not been tested.
Contains the following chemicals which are considered to be inherently biodegradable:
Naphtha (petroleum), hydrotreated heavy.

Bioaccumulation potential

- : The product itself has not been tested. See the following data for ingredient information.

<u>Components</u>	<u>Partition coefficient n-octanol/water (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
Acetone (CAS 67-64-1)	0.24	0.65 (Fish)
Solvent naphtha (petroleum), light aliphatic (CAS 64742-89-8)	2.1 - 6	129 - 576
Naphtha (petroleum), hydrotreated heavy (CAS 64742-48-9)	2.1 - 6 (calculated)	10 - 2500 (calculated)
Isobutane (CAS 75-28-5)	2.76 (calculated)	27 (estimated)
Solvent naphtha (petroleum), medium aliphatic (CAS 64742-88-7)	3.7 - 6.7	142 - 11,430 (Fish) (calculated)
N-Octane (CAS 111-65-9)	5.18	1216
n-Heptane (CAS 142-82-5)	4.66	2000
Sodium nitrite (CAS 7632-00-0)	- 3.7	3.162 (estimated)

Mobility in soil

- : The product itself has not been tested.

Other Adverse Environmental effects

- : No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13. DISPOSAL CONSIDERATIONS

Handling for Disposal

- : This material and its container must be disposed of as hazardous waste. Dispose of in accordance with local regulations. This material and its container must be disposed of in a safe way.

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Methods of Disposal : Dispose in accordance with all applicable federal, state, provincial and local regulations.

RCRA : If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
TDG	UN1950	AEROSOLS	2.1	None	
TDG Additional information	May be shipped as LIMITED QUANTITY when transported in containers no larger than 1.0 Litre, in packages not exceeding 30 kg gross mass. Under the TDG, refer to Section 1.17 for additional exemption requirements, if shipping under this exemption.				
49CFR/DOT	UN1950	Aerosols	2.1	None	
49CFR/DOT Additional information	May be shipped as LIMITED QUANTITY when transported in containers no larger than 1.0 Litre, in packages not exceeding 30 kg gross mass.				
ICAO/IATA	UN1950	Aerosols, flammable	2.1	None	
ICAO/IATA Additional information	Refer to the appropriate Packing Instruction, prior to shipping this material. Review all State and Operator Variations, prior to shipping this material.				
IMDG	UN1950	AEROSOLS	2.1	None	
IMDG Additional information	May be shipped as LIMITED QUANTITY when transported in containers no larger than 1.0 Litre, in packages not exceeding 30 kg gross mass.				

Special precautions for user : Appropriate advice on safety must accompany the package. Keep away from heat, sparks and open flame. - No smoking.

Environmental hazards : This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See Section 12 for more environmental information.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: Not applicable.



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SECTION 15 - REGULATORY INFORMATION

US Federal Information:

Components listed below are present on the following U.S. Federal chemical lists:

<u>Ingredients</u>	CAS #	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	
					Toxic Chemical	de minimus Concentration
Propane	74-98-6	Yes	None.	None.	No	N/Ap
Acetone	67-64-1	Yes	5000 lb/ 2270 kg	None.	No	N/Ap
Solvent naphtha (petroleum), light aliphatic	64742-89-8	Yes	None.	None.	No	N/Ap
Naphtha (petroleum), hydrotreated heavy	64742-48-9	Yes	None.	None.	No	N/Ap
Isobutane	75-28-5	Yes	None.	None.	No	N/Ap
Solvent naphtha (petroleum), medium aliphatic	64742-88-7	Yes	None.	None.	No	N/Ap
N-Octane	111-65-9	Yes	None.	None.	No	N/Ap
n-Heptane	142-82-5	Yes	None.	None.	No	N/Ap
Sodium nitrite	7632-00-0	Yes	100 lb/ 45.4 kg	None.	Yes	1%

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes:

Physical hazards (Flammable aerosol; Gas Under Pressure)

Health hazards (Eye irritation; Specific target organ toxicity, single exposure; Aspiration hazard)

Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

<u>Ingredients</u>	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Propane	74-98-6	No	N/Ap	No	Yes	Yes	Yes	Yes	Yes
Acetone	67-64-1	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
Solvent naphtha (petroleum), light aliphatic	64742-89-8	No	N/Ap	No	No	No	No	No	No
Naphtha (petroleum), hydrotreated heavy	64742-48-9	No	N/Ap	No	No	No	No	No	No
Isobutane	75-28-5	No	N/Ap	No	Yes	No	Yes	Yes	No
Solvent naphtha (petroleum), medium aliphatic	64742-88-7	No	N/Ap	No	No	No	Yes	No	No
N-Octane	111-65-9	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
n-Heptane	142-82-5	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
Sodium nitrite	7632-00-0	No	N/Ap	Yes	Yes	No	Yes	Yes	No



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Canadian Information:

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

Canadian National Pollutant Release Inventory (NPRI): This product contains the following substances listed on the NPRI:

- Propane (Part 5: Individual Substances)
- Solvent naphtha (petroleum), light aliphatic (Part 5: Other groups and mixtures)
- Naphtha (petroleum), hydrotreated heavy (Part 5: Other groups and mixtures)
- Solvent naphtha (petroleum), medium aliphatic (Part 5: Other groups and mixtures)
- Sodium nitrite (Part 1, Group A Substance)

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

International Information:

Components listed below are present on the following International Inventory list:

Ingredients	CAS #	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	New Zealand IOC
Propane	74-98-6	200-827-9	Present	Present	(2)-3	KE-29258	Present	HSR001010
Acetone	67-64-1	200-662-2	Present	Present	(2)-542	KE-29367	Present	HSR001070
Solvent naphtha (petroleum), light aliphatic	64742-89-8	265-192-2	Present	Present	Not listed	KE-31661	Present	May be used as a single component chemical under an appropriate group standard.
Naphtha (petroleum), hydrotreated heavy	64742-48-9	265-150-3	Present	Present	(9)-1690	KE-25622	Present	May be used as a single component chemical under an appropriate group standard.
Isobutane	75-28-5	200-857-2	Present	Present	(2)-4	KE-24865	Present	HSR001003
Solvent naphtha (petroleum), medium aliphatic	64742-88-7	265-191-7	Present	Present	(9)-1700	KE-31664	Present	May be used as a single component chemical under an appropriate group standard.
N-Octane	111-65-9	203-892-1	Present	Present	(2)-8	KE-26612	Present	HSR001415
n-Heptane	142-82-5	205-563-8	Present	Present	(2)-7	KE-18271	Present	HSR001164
Sodium nitrite	7632-00-0	231-555-9	Present	Present	(1)-483	KE-31546	Present	HSR001286

SECTION 16. OTHER INFORMATION

Legend

- : ACGIH: American Conference of Governmental Industrial Hygienists
- AICS: Australian Inventory of Chemical Substances
- CAS: Chemical Abstract Services
- CSA: Canadian Standards Association
- EC50: Effective Concentration 50%

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EINECS: European Inventory of Existing Commercial chemical Substances
 ENCS: Existing and New Chemical Substances
 HSDB: Hazardous Substances Data Bank
 IARC: International Agency for Research on Cancer
 IBC: Intermediate Bulk Container
 IECSC: Inventory of Existing Chemical Substances
 IMDG: International Maritime Dangerous Goods
 IOC: Inventory of Chemicals
 KECI: Korean Existing Chemicals Inventory
 KECL: Korean Existing Chemicals List
 LC: Lethal Concentration
 LD: Lethal Dose
 N/Ap: Not Applicable
 N/Av: Not Available
 NIOSH: National Institute of Occupational Safety and Health
 NOEC: No observable effect concentration
 NTP: National Toxicology Program
 OECD: Organisation for Economic Co-operation and Development
 OSHA: Occupational Safety and Health Administration
 PEL: Permissible exposure limit
 PICCS: Philippine Inventory of Chemicals and Chemical Substances
 RTECS: Registry of Toxic Effects of Chemical Substances
 SDS: Safety Data Sheet
 STEL: Short Term Exposure Limit
 TDG: Canadian Transportation of Dangerous Goods Act & Regulations
 TLV: Threshold Limit Values
 TSCA: Toxic Substance Control Act
 TWA: Time Weighted Average
 WHMIS: Workplace Hazardous Materials Identification System

References

- : 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2017.
2. International Agency for Research on Cancer Monographs, searched 2018.
3. Canadian Centre for Occupational Health and Safety, CCIInfoWeb databases, 2018 (Chempendium, HSDB and RTECs).
4. Material Safety Data Sheets from manufacturer.
5. US EPA Title III List of Lists - March 2015 version.
6. California Proposition 65 List - December 29, 2017 version.
7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2018.

Preparation Date (mm/dd/yyyy)

: 03/12/2018

Other special considerations for handling

: Provide adequate information, instruction and training for operators.

<p><u>Prepared for:</u> NLS Products Box 790, 1 Lakewood Crescent Bobcaygeon, ON, Canada K0M 1A0 Telephone: (705) 738-2321 Direct all enquiries to: NLS Products</p>	
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