

1. Identification

- Product Identifier
- Trade Name: CLR Spot-Free Stainless Steel
- SDS Number: RE1000003607
- Recommended Restrictions:
 - Product use: Cleaner
 - Restrictions on use: Not Known
- Details of the Supplier of the Safety Data Sheet:
- Manufacturer/Supplier:
 - JELMAR
5550 W. TOUHY AVENUE SUITE 200
SKOKIE, IL 60077-1039
Tel: 847-675-8400
- Emergency telephone number: 1-866-836-8855

2. Hazard(s) Identification

- **Hazard Classification:**
 - **Physical Hazards:** Flammable Aerosol: Category 1
 - **Health Hazards:** Aspiration Hazard: Category 1
- **Label Elements:**
 - **Hazard Symbol:**



- **Signal word:** Danger
- **Hazard statements:** Extremely flammable aerosol. May be fatal if swallowed and enters airways.
- **Precautionary Statements:**
 - Prevention: 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.
 - Response: IF SWALLOWED: Immediately call a POISON CENTER/doctor Do NOT induce vomiting.
 - Storage: Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store locked up.
 - Disposal: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
- **Hazard(s) not otherwise classified (HNOC):** None

3. Composition/Information on Ingredients

Mixtures:

Chemical Identity	CAS number	Content in percent (%)*
Butane	106-97-8	10 - <20%
Distillates (petroleum),	64742-47-8	10 - <20%

hydrotreated light		
White mineral oil (petroleum)	8042-47-5	10 - <20%
Propane	74-98-6	1 - <5%
Siloxanes and Silicones, di-Me	63148-62-9	1 - <5%

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-Aid Measures

- **Ingestion:** Call a physician or poison control center immediately. Rinse mouth. Never give liquid to an unconscious person. If vomiting occurs, keep head low so that stomach content does not get into the lungs.
- **Inhalation:** Move to fresh air.
- **Skin Contact:** Remove contaminated clothing and wash the skin thoroughly with soap and water after work.
- **Eye Contact:** Rinse immediately with plenty of water.
- Most important symptoms/effects, acute and delayed:
- **Symptoms:** No data available.
- **Hazards:** No data available.
- Indication of immediate medical attention and special treatment needed
- **Treatment:** No data available.

5. Fire-Fighting Measures

- **General Fire Hazards:** Use water spray to keep fire-exposed containers cool. Fight fire from a protected location. Move containers from fire area if you can do so without risk.
- **Suitable (and unsuitable) extinguishing media:**
 - **Suitable extinguishing media:** Use fire-extinguishing media appropriate for surrounding materials.
 - **Unsuitable extinguishing media:** Do not use water jet as an extinguisher, as this will spread the fire.
- **Specific hazards arising from the chemical:** Vapors may travel considerable distance to a source of ignition and flash back.
- **Special protective equipment and precautions for firefighters:**
 - **Special firefighting procedures:** No data available.
- **Special protective equipment for firefighters:** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures:** Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep upwind.

- **Environmental precautions:** Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer. Environmental manager must be informed of all major spillages.
- **Methods and material for containment and cleaning up:** Stop the flow of material, if this is without risk. Absorb with sand or other inert absorbent.
- **Notification Procedures:** ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk.

7. Handling and Storage

- **Precautions for safe handling:** 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.
- **Conditions for safe storage, including any incompatibilities:** Store locked up. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Aerosol Level 1

8. Exposure Controls/Personal Protection

- **Control Parameters:**
Occupational Exposure Limits:

Chemical Identity	Type	Exposure Limit Values	Source
Butane	REL	800 ppm 1,900 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	STEL	1,000 ppm	US. ACGIH Threshold Limit Values (03 2018)
	TWA	800 ppm 1,900 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Distillates (petroleum), hydrotreated light	REL	100 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	TWA	200 mg/m3	US. ACGIH Threshold Limit Values (2008)
		200 mg/m3	US. ACGIH Threshold Limit Values (2008)
White mineral oil (petroleum) - Mist.	REL	5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	STEL	10 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	TWA	5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
White mineral oil (petroleum) - Inhalable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values (01 2010)

Propane	REL	1,000 ppm 1,800 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	1,000 ppm 1,800 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	1,000 ppm 1,800 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Acetic acid, phenylmethyl ester	TWA	10 ppm	US. ACGIH Threshold Limit Values (2008)

- **Appropriate Engineering Controls:** No data available.
- **Individual protection measures, such as personal protective equipment:**
 - **General information:** Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.
 - **Eye/face protection:** Wear goggles/face shield.
- **Skin Protection:**
 - **Hand Protection:** No data available.
 - **Other:** No data available.
- **Respiratory Protection:** In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.
- **Hygiene measures:** When using do not smoke. Observe good industrial hygiene practices.

9. Physical and Chemical Properties

- Information on basic physical and chemical properties
- General Information
- Appearance:
 - Physical State: Liquid
 - Form: Spray Aerosol
 - Color: No data available
- Odor: No data available
- Odor threshold: No data available
- pH-value: No data available
- Change in condition
 - Melting point/Melting range: No data available
 - Boiling point/Boiling range: No data available
- Flash point: -104.44°C
- Evaporation Rate: No data available
- Flammability (solid, gaseous): No data available
- Explosion limitson flammability or explosive limits:
- Flammability Limit – Lower (%): No data available
- Flammability Limit – Upper(%): No data available
- Explosive Limit – Lower (%): No data available
- Explosive Limit – Upper (%): No data available
- Vapor pressure: 3,447 – 4,826 hPa (20°C)
- Density: No data available
 - Relative density: No data available
 - Vapor density: No data available

- Solubility in water: No data available
- Solubility (other): No data available
- Partition coefficient (n-octanol/water): Not determined.
- Viscosity: No data available
- Auto-ignition Temperature: No data available
- Decomposition Temperature: No data available

10. Stability and Reactivity

- Reactivity: No data available
- Chemical stability: Material is stable under normal conditions
- Possibility of hazardous reactions: No data available
- Conditions to avoid: Avoid heat or contamination
- Incompatible materials: No data available
- Hazardous decomposition products: No data available

11. Toxicological Information

- **Information on likely routes of exposure:**
- Inhalation: No data available
- Skin Contact: No data available
- Eye contact: No data available
- Ingestion: No data available
- **Symptoms related to the physical, chemical and toxicological characteristics:**
- Inhalation: No data available
- Skin Contact: No data available
- Eye contact: No data available
- Ingestion: No data available
- **Information on toxicological effects:**
 - **Oral:**
 - Product: Not classified for acute toxicity based on available data.
 - **Specified substance(s):**
 - Distillates (petroleum), hydrotreated light LD 50 (Rat): > 5,000 mg/kg
 - White mineral oil (petroleum) LD 50 (Rat): > 5,000 mg/kg
 - **Dermal:**
 - Product: Not classified for acute toxicity based on available data.
 - **Specified substance(s):**
 - Distillates (petroleum), hydrotreated light LD 50 (Rabbit): > 2,000 mg/kg
 - White mineral oil (petroleum) LD 50 (Rabbit): > 2,000 mg/kg
 - **Inhalation:**
 - Product: Not classified for acute toxicity based on available data.
 - **Specified substance(s):**
 - Butane: LC 50: > 100 mg/l
LC 50: > 100 mg/l
 - Distillates (petroleum), hydrotreated light: LC 50: > 5 mg/l

- White mineral oil (petroleum):
 - LC 50: > 20 mg/l
 - LC 50 (Rat): > 5 mg/l
 - LC 50: > 20 mg/l
- Propane:
 - LC 50: > 100 mg/l
 - LC 50: > 100 mg/l
- **Repeated Dose Toxicity:**
 - Product: No data available
 - **Specified Substances:**
 - Butane:
 - LOAEL (Rat(Female, Male), Inhalation, >= 28 d): 12,000 ppm(m)
Inhalation Experimental result, Key study
 - NOAEL (Rat(Female, Male), Inhalation, >= 28 d): 4,000 ppm(m)
Inhalation Experimental result, Key study
 - Distillates (petroleum), hydrotreated light:
 - NOAEL (Rat(Female, Male), Inhalation): >= 24 mg/m³ Inhalation
Experimental result, Key study
 - NOAEL (Rat(Female), Oral, 70 - 147 d): 750 mg/kg Oral Experimental
result, Key study
 - White mineral oil (petroleum)
 - NOAEL (Rat(Female, Male), Oral, 90 d): >= 20,000 ppm(m) Oral
Experimental result, Key study
 - NOAEL (Rabbit(Female, Male), Dermal): 1,000 mg/kg Dermal Read-
across from supporting substance (structural analogue or surrogate),
Key study
 - LOAEL (Rat(Female, Male), Inhalation): 210 mg/m³ Inhalation
Experimental result, Key study
 - Propane
 - NOAEL (Rat(Female, Male), Inhalation, >= 28 d): 4,000 ppm(m)
Inhalation Experimental result, Key study
 - LOAEL (Rat(Female, Male), Inhalation, >= 28 d): 12,000 ppm(m)
Inhalation Experimental result, Key study
- **Skin Corrosion/Irritation:**
 - Product: No data available
 - **Specified Substances:**
 - Distillates (petroleum), hydrotreated light in vivo (Rabbit): Not irritant
Experimental result, Key study
 - White mineral oil (petroleum) in vivo (Rabbit): Not irritant Experimental result,
Key study
- **Serious Eye Damage/Eye Irritation:**
 - Product: No data available
 - **Specified Substances:**
 - Distillates (petroleum), hydrotreated light: Rabbit, 24 - 72 hrs: Not irritating
 - White mineral oil (petroleum): Rabbit, 24 - 72 hrs: Not irritating
- **Respiratory or Skin Sensitization:**
 - Product: No data available
 - **Specified Substances:**

- Distillates (petroleum), hydrotreated light: Skin sensitization:, in vivo (Guinea pig): Non sensitizing
- White mineral oil (petroleum): Skin sensitization:, in vivo (Guinea pig): Non sensitizing
- **Carcinogenicity:**
 - Product: No data available
- **IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**
 - No carcinogenic components identified
- **US. National Toxicology Program (NTP) Report on Carcinogens:**
 - No carcinogenic components identified
- **US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):**
 - No carcinogenic components identified
- **Germ Cell Mutagenicity:**
- **In vivo**
 - Product: No data available
- **In vitro**
 - Product: No data available
- **Reproductive toxicity**
 - Product: No data available
- **Specific Target Organ Toxicity - Single Exposure**
 - Product: No data available
- **Specific Target Organ Toxicity - Repeated Exposure**
 - Product: No data available
- **Aspiration Hazard**
 - Product: No data available
 - **Specified Substances:**
 - Distillates (petroleum), hydrotreated light: May be fatal if swallowed and enters airways.
 - White mineral oil (petroleum): May be fatal if swallowed and enters airways.
- **Other Effects:** No data available

12. Ecological Information

- **Ecotoxicity:**
 - **Acute hazards to the aquatic environment:**
 - Fish: Product: No data available
 - **Specified Substances:**
 - Butane: LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study
 - White mineral oil (petroleum): NOAEL (Oncorhynchus mykiss, 96 h): >= 100 mg/l Experimental result, Key study
LL 50 (Oncorhynchus mykiss, 96 h): > 100 mg/l Experimental result, Key study
 - Propane: LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study
 - Siloxanes and Silicones, di-Me: LC 50 (Redear sunfish (Lepomis microlophus), 96 h): 26.27 - 56.73 mg/l Mortality
 - Aquatic Invertebrates: Product: No data available
 - **Specified Substances:**

- Butane: LC 50 (Daphnia sp., 48 h): 69.43 mg/l QSAR QSAR, Key study
- White mineral oil (petroleum): NOAEL (Daphnia magna, 48 h): >= 100 mg/l Experimental result, Key study
- Siloxanes and Silicones, di-Me: LC 50 (Water flea (Daphnia magna), 48 h): 44.5 mg/l Mortality
- **Chronic Hazards to the Aquatic Environment:**
 - Fish: Product: No data available
 - **Specified Substances:**
 - Distillates (petroleum), hydrotreated light: NOAEL (Oncorhynchus mykiss): 0.098 mg/l QSAR QSAR, Key study
 - White mineral oil (petroleum): NOAEL (Oncorhynchus mykiss): >= 1,000 mg/l QSAR QSAR, Supporting study
 - Aquatic Invertebrates: Product: No data available
 - **Specified Substances:**
 - White mineral oil (petroleum): NOAEL (Daphnia magna): >= 1,000 mg/l QSAR QSAR, Supporting study
 - Toxicity to Aquatic Plants: Product: No data available
- **Persistence and Degradability:**
 - Biodegradation: Product: No data available
 - **Specified Substances:**
 - Butane: 100 % (385.5 h) Detected in water. Experimental result, Key study
 - Distillates (petroleum), hydrotreated light: 61 % Detected in water. Experimental result, Supporting study
 - White mineral oil (petroleum): 31 % (28 d) Detected in water. Read-across from supporting substance (structural analogue or surrogate), Supporting study
 - Propane: 100 % (385.5 h) Detected in water. Experimental result, Key study
50 % (3.19 d) Detected in water. QSAR, Weight of Evidence study
 - BOD/COD Ratio: Product: No data available
- **Bio Accumulative Potential:**
 - Bioconcentration Factor (BCF): Product: No data available
- **Partition Coefficient n-octanol/water (log Kow)**
 - Product: No data available
 - Mobility in soil: No data available
 - **Known or predicted distribution to environmental compartments:**
 - Butane: No data available
 - Distillates (petroleum), hydrotreated light: No data available
 - White mineral oil (petroleum): No data available
 - Propane: No data available
 - Siloxanes and Silicones, di- Me: No data available
- **Other adverse effects:** No data available

13. Disposal Considerations

- **Disposal Instructions:** Discharge, treatment, or disposal may be subject to national, state, or local laws.
- **Contaminated Packaging:** No data available

14. Transport Information

- **DOT**
 - UN Number: UN 1950
 - UN Proper Shipping Name: Aerosols, flammable
 - Transport Hazard Class(es)
 - Class: 2.1
 - Label(s): –
 - Packing Group: –
 - Marine Pollutant: No
 - Environmental Hazards: No
 - Marine Pollutant: No
 - Special precautions for user: Not regulated
- **IMDG**
 - UN Number: UN 1950
 - UN Proper Shipping Name: Aerosols, flammable
 - Transport Hazard Class(es)
 - Class: 2
 - Label(s): –
 - EmS No.:
 - Packing Group: –
 - Environmental Hazards: No
 - Marine Pollutant: No
 - Special precautions for user: Not regulated
- **IATA**
 - UN Number: UN 1950
 - Proper Shipping Name: Aerosols, flammable
 - Transport Hazard Class(es):
 - Class: 2.1
 - Label(s): –
 - Packing Group: –
 - Environmental Hazards: No
 - Marine Pollutant: No
 - Special precautions for user: Not regulated

15. Regulatory Information

- US Federal Regulations
 - Restrictions on use: Not known.
- **TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**
 - US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
 - None present or none present in regulated quantities.
 - **CERCLA Hazardous Substance List (40 CFR 302.4):**



Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

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- **Chemical Identity** **Reportable quantity**
 - Butane 100 lbs.
 - Propane 100 lbs.
- Superfund Amendments and Reauthorization Act of 1986 (SARA)
 - Hazard categories
 - Fire Hazard
 - Immediate (Acute) Health Hazards Flammable aerosol
 - Aspiration Hazard
 - SARA 302 Extremely Hazardous Substance

<u>Chemical Identity</u>	<u>Reportable quantity</u>	<u>Threshold Planning Quantity</u>
Distillates (petroleum), hydrotreated light		

- SARA 304 Emergency Release Notification

<u>Chemical Identity</u>	<u>Reportable quantity</u>
Butane	100 lbs.
Distillates (petroleum), hydrotreated light	
Propane	100 lbs.

- SARA 311/312 Hazardous Chemical

<u>Chemical Identity</u>	<u>Threshold Planning Quantity</u>
Butane	10000 lbs
Distillates (petroleum), hydrotreated light	10000 lbs
White mineral oil (petroleum)	10000 lbs
Propane	10000 lbs
Siloxanes and Silicones, di-Me	10000 lbs
Acetic acid, phenylmethyl ester	10000 lbs

- SARA 313 (TRI Reporting)
 - None present or none present in regulated quantities.
- **Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)**
 - US State Regulations
 - US. California Proposition 65
 - No ingredient requiring a warning under CA Prop 65.
 - US. New Jersey Worker and Community Right-to-Know Act

<u>Chemical Identity</u>
Butane
Distillates (petroleum), hydrotreated light
White mineral oil (petroleum)
Propane

- US. Massachusetts RTK - Substance List

- No ingredient regulated by MA Right-to-Know Law present.
- US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

Butane

Distillates (petroleum), hydrotreated light

White mineral oil (petroleum)

Propane

- US. Rhode Island RTK
 - No ingredient regulated by RI Right-to-Know Law present.
- **International regulations**
 - Montreal Protocol
 - Distillates (petroleum), hydrotreated light
 - Stockholm Convention
 - Distillates (petroleum), hydrotreated light
 - Rotterdam Convention
 - Distillates (petroleum), hydrotreated light
 - Kyoto Protocol
- **Inventory Status:**
 - Australia AICS: On or in compliance with the inventory
 - Canada DSL Inventory List: On or in compliance with the inventory
 - Canada NDSL Inventory: Not in compliance with the inventory.
 - Ontario Inventory: On or in compliance with the inventory
 - China Inv. Existing Chemical Substances: On or in compliance with the inventory
 - Japan (ENCS) List: Not in compliance with the inventory.
 - Japan ISHL Listing: Not in compliance with the inventory.
 - Japan Pharmacopoeia Listing: Not in compliance with the inventory.
 - Korea Existing Chemicals Inv. (KECI): Not in compliance with the inventory.
 - Mexico INSQ: Not in compliance with the inventory.
 - New Zealand Inventory of Chemicals: Not in compliance with the inventory.
 - Philippines PICCS: On or in compliance with the inventory
 - Taiwan Chemical Substance Inventory: On or in compliance with the inventory
 - US TSCA Inventory: On or in compliance with the inventory
 - EINECS, ELINCS or NLP: Not in compliance with the inventory.

16. Other Information

- Issue Date: 08/10/2022
- Revision Information: No data available.
- Version #: 1.0
- Further Information: No data available.
- Disclaimer: This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.