



PHYSICAL	1
HEALTH	1
ENVIRONMENTAL	0

## SAFETY DATA SHEET

Prepared by Duro Dyne April 29, 2015

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Trade name:** STRIPPER  
**Product Identifier:** CLEANER & LUBRICATING SPRAY  
**Item #:** 27147  
**Supplier Details:** DURO DYNE CORPORATION  
81 Spence Street  
Bay Shore, NY 11706

**Information**  
**Phone No:** 800-899-3876  
**Emergency**  
**Phone No:** 800-424-9300 (CHEMTREC)

### 2. HAZARDS IDENTIFICATION

**Physical Hazards:** Flammable aerosols.  
**Health Hazards:** Aspiration hazard.  
**Environmental Hazards:** Not classified.  
**OSHA Defined Hazards:** Not classified.  
**Label Elements:**



**Signal Word:** Danger  
**Hazard Statement:** Extremely flammable aerosol. May be fatal if swallowed and enters airways.

**Precautionary Statement:**  
**Prevention:** Keep away from heat/sparks/open flames/hot surfaces. No smoking. Do not spray on an open flame or other ignition source. Pressurized container. Do not pierce or burn, even after use.

**Response:** **If swallowed:** Immediately call a poison center/doctor. Do Not induce vomiting. Wash hands after handling.  
**If exposed or concerned:** Get medical advice/attention.

**Storage:** Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

**Disposal:** Dispose of waste and residues in accordance with local authority requirements. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Hazard(s) Not Otherwise Classified (HNOC):** None known.

**Supplemental Information:** None.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Mixtures:**

CHEMICAL NAME	CAS #	%
Distillates (Petroleum) Solvent-Dewaxed Heavy Paraffinic	64742-65-0	60-80
Propane	74-98-6	10-20
Butane	106-97-8	2.5-10
Zinc Alkyldithiophosphate	68649-42-3	1-2.5

### 4. FIRST-AID MEASURES

**Inhalation:** If symptoms develop move victim to fresh air. Get medical attention if symptoms persist.

**Skin Contact:** Wash off with soap and water. Get medical attention if irritation develops and persists.

**Eye Contact:** Get medical attention if irritation develops and persists.

**Ingestion:** Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content does not get into the lungs.

**Most Important Symptoms/Effects, Acute and Delayed:** Aspiration may cause pulmonary edema and pneumonitis.

**Indication of Immediate Medical Attention and Special Treatment Needed:** Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

**General Information:** Ensure that medical personnel are aware of the material(s) involved, and take precaution to protect themselves.

### 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media:** Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>)

**Unsuitable Extinguishing Media:** Do not use water jet as an extinguisher, as this will spread the fire.

**Specific Hazards Arising from the Chemical:**

Contents under pressure. Pressurized container may explode when exposed to heat or flame.

**Special Protective Equipment and Precautions for Firefighters:**

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

**Fire-fighting Equipment/Instructions:**

Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

**Specific Methods:**

Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not breathe fumes.

**General Fire Hazards:**

Extremely flammable aerosol.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions, Protective Equipment and Emergency Procedures:**

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

**Methods and Materials for Containment and Cleaning Up:**

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place in containers. Prevent entry into waterways, sewers, basements or confined areas. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

**Environmental Precautions:**

Avoid discharge into drains, water courses or onto the ground.

**7. HANDLING AND STORAGE****Precautions for Safe Handling:**

Pressurized container. Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

**Conditions for Safe Storage, Including Any Incompatibilities:**

Level 3 Aerosol. Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122°F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Refrigeration recommended. Store away from incompatible materials (see Section 10 of the SDS. Level 3 Aerosol.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Occupational Exposure Limits:****US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

<b>Components</b>	<b>Type</b>	<b>Value</b>
Propane (CAS 74-98-6)	PEL	1800 mg/m <sup>3</sup> 1000 ppm

**US ACGIH Threshold Limit Values**

<b>Components</b>	<b>Type</b>	<b>Value</b>
Butane (CAS 106-97-8)	STEL	1000 ppm

**US NIOSH: Pocket Guide to Chemical Hazards**

<b>Components</b>	<b>Type</b>	<b>Value</b>
Butane (CAS 106-97-8)	TWA	1900 mg/m <sup>3</sup> 800 ppm
Propane (CAS 74-98-6)	TWA	1800 mg/m <sup>3</sup> 1000 ppm

<b>Biological Limit Values:</b>	No biological exposure limits noted for the ingredient(s).
<b>Appropriate Engineering Controls:</b>	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
<b>Individual Protective Measures, Such as Personal Protective Equipment:</b>	
<b>Eye/Face Protection:</b>	Face shield is recommended. Wear safety glasses with side shields (or goggles).
<b>Hand Protection:</b>	Wear appropriate chemical resistant gloves.
<b>Skin Protection:</b>	Wear suitable protective clothing.
<b>Respiratory Protection:</b>	If permissible levels are exceeded use NIOSH mechanical filter/organic vapor cartridge or an air-supplied respirator.
<b>Thermal Hazards:</b>	Wear appropriate thermal protective clothing, when necessary.
<b>General Hygiene Considerations:</b>	When using do not smoke. Always observe good personal hygiene measures, such as washing hands after handling the material and before eating, drinking and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance/Physical State:</b>	Liquid.
<b>Form:</b>	Aerosol.
<b>Color:</b>	Red.
<b>Odor:</b>	Mild.
<b>Odor Threshold:</b>	Not available.
<b>pH:</b>	Not available.
<b>Melting Point/Freezing Point:</b>	Not available.
<b>Initial Boiling Point and Boiling Range:</b>	Not available.
<b>Flash Point:</b>	-156.0°F (-104.4°C) propellant estimated.
<b>Evaporation Rate:</b>	Not available.
<b>Flammability (solid, gas)</b>	Not available.
<b>Upper/Lower Flammability or Explosive Limits:</b>	
<b>Flammability Limit-Lower (%):</b>	1.9% estimated.
<b>Flammability Limit-Upper (%):</b>	9.5 % estimated.
<b>Explosive Limit-Lower (%):</b>	Not available.
<b>Explosive Limit-Upper (%):</b>	Not available.
<b>Vapor Pressure:</b>	61 psig@70F estimated.

<b>Vapor Density:</b>	Not available.
<b>Relative Density:</b>	0.782 g/cm <sup>3</sup> estimated.
<b>Solubility (water):</b>	Not available.
<b>Partition Coefficient (n-octanol/water):</b>	Not available.
<b>Auto-ignition Temperature:</b>	Not available.
<b>Decomposition Temperature:</b>	Not available.
<b>Viscosity:</b>	Not available.
<b>Heat of Combustion:</b>	41.12 estimated.

## **10. STABILITY AND REACTIVITY**

<b>Reactivity:</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical Stability:</b>	Material is stable under normal conditions.
<b>Possibility of Hazardous Reactions:</b>	Hazardous polymerization does not occur.
<b>Conditions to Avoid:</b>	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
<b>Incompatible Materials:</b>	Strong oxidizing agents. Nitrates. Fluorine. Chlorine.
<b>Hazardous Decomposition Products:</b>	No hazardous decomposition products are known.

## **11. TOXICOLOGICAL INFORMATION**

<b>Ingestion:</b>	Expected to be a low ingestion hazard. Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.
<b>Inhalation:</b>	No adverse effects due to inhalation are expected.
<b>Skin Contact:</b>	No adverse effects due to skin contact are expected.
<b>Eye Contact:</b>	Not available.
<b>Symptoms Related to the Physical, Chemical and Toxicological Characteristics:</b>	Aspiration may cause pulmonary edema and pneumonitis.
<b>Acute Toxicity:</b>	May be fatal if swallowed and enters airways.

<b><u>Components</u></b>	<b><u>Species</u></b>	<b><u>Test Results</u></b>
Butane (CAS 106-97-8)		
<b>Acute</b>		
Inhalation		
LC50	Mouse	1237 mg/l, 120 minutes
	Rat	52%, 120 minutes
		1355 mg/l
Distillates (Petroleum) Solvent-Dewaxed Heavy Paraffinic (CAS 64742-65-0)		
<b>Acute</b>		
Dermal		
LD50	Rabbit	>2000 mg/kg
		>2000 mg/kg, 24 hours

Components	Species	Test Results
Distillates (Petroleum) Solvent-Dewaxed Heavy Paraffinic (CAS 64742-65-0)		
Oral		
LD50	Rat	5000 mg/kg
Propane (CAS 74-98-6)		
<b>Acute</b>		
Inhalation		
LC50	Mouse	1237 mg/l, 120 minutes 52%, 120 minutes
	Rat	1355 mg/l 658 mg/l/4h

\*Estimates for product may be based on additional component data not shown.

<b>Skin Corrosion/Irritation:</b>	Prolonged skin contact may cause temporary irritation.
<b>Serious Eye Damage/Eye Irritation:</b>	Not available.
<b>Respiratory Sensitization:</b>	Not available.
<b>Skin Sensitization:</b>	This product is not expected to cause skin sensitization.
<b>Germ Cell Mutagenicity:</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
<b>Carcinogenicity:</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
<b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):</b>	Not listed.
<b>Reproductive Toxicity:</b>	This product is not expected to cause reproductive or developmental effects.
<b>Specific Target Organ Toxicity, Single Exposure:</b>	Not classified.
<b>Specific Target Organ Toxicity, Repeated Exposure:</b>	Not classified.
<b>Aspiration Hazard:</b>	May be fatal if swallowed and enters airways.

## **12. ECOLOGICAL INFORMATION**

<b>Ecotoxicity:</b>	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large of frequent spills can have a harmful or damaging effect on the environment.
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<b><u>Components</u></b>	<b><u>Species</u></b>	<b><u>Test Results</u></b>
Distillates (Petroleum) Solvent-Dewaxed Heavy Paraffinic (CAS 64742-65-0)		
<b>Aquatic</b>		
Crustacea		
EC50	Daphnia	1000.0001 mg/l, 48 hours
Zinc Alkyldithiophosphate (CAS 68649-42-3)		
<b>Aquatic</b>		
Crustacea		
EC50	Daphnia	1.25 mg/l, 48 hours
Fish		

LC50

Fish

3.96 hours

\*Estimates for product may be based on additional component data not shown.

**Persistence and Degradability:**

No data is available on the degradability of this product.

**Bioaccumulative Potential:**

No data available.

**Partition Coefficient N-Octanol / Water  
(Log Kow):**

Butane 2.89

Propane 2.36

**Mobility in Soil:**

No data available.

**Other Adverse Effects:**

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

### **13. DISPOSAL CONSIDERATIONS**

**Disposal Instructions:**

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Dispose of contents/containers in accordance with local/regional/national/international regulations.

**Local Disposal Regulations:**

Dispose in accordance with all applicable regulations.

**Hazardous Waste Code:**

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Waste from Residues/Unused  
Product:**

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see Disposal Instructions).

**Contaminated Packaging:**

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Do not re-use empty containers.

### **14. TRANSPORT INFORMATION**

**DOT**

**UN Number:**

UN 1950

**UN Proper Shipping Name:**

Aerosols, flammable, (each not exceeding 1 L capacity).

**Transport Hazard Classes:**

Class 2.1

**Subsidiary Risk:**

-

**Label(s):**

None.

**Packing Group:**

Not applicable.

**Special Precaution for User:**

Read safety instructions, SDS and emergency procedures before handling.

**Special Provisions:**

N82

**Packaging Exceptions:**

306

**Packaging Non-Bulk:** None.

**Packaging Bulk:** None.

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the “Consumer Commodity-ORM-D” marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/2020 and may be used now in place of the “Consumer Commodity-ORM-D” marking and both may be displayed concurrently.

**IATA**

**UN Number:** UN 1950  
**UN Proper Shipping Name:** Aerosols, flammable.  
**Transport Hazard Classes:** Class 2.1  
**Subsidiary Risk:** -  
**Label(s):** None.  
**Packing Group:** Not applicable.  
**Environmental Hazards:** No.  
**ERG Code:** 10L  
**Special Precautions for User:** Read safety instructions, SDS and emergency procedures before handling.

**Other Information**

**Passenger and Cargo Aircraft:** Allowed.  
**Cargo Aircraft Only:** Allowed.  
**Packaging Exceptions:** LTD QTY

**IMDG**

**UN Number:** UN 1950  
**UN Proper Shipping Name:** AEROSOLS  
**Transport Hazard Classes:** Class 2.1  
**Subsidiary Risk:** -  
**Label(s):** None.  
**Packing Group:** Not applicable.  
**Environmental Hazards:** Marine Pollutant/No.  
**EMS:** F-D, S-U  
**Special Precautions for User:** Read safety instructions, SDS and emergency procedures before handling.  
**Packaging Exceptions:** LTD QTY

**Transport in Bulk According to Annex II of MARPOL 73/78 and IBC code:**  
**DOT**



IATA; IMDG



## 15. REGULATORY INFORMATION

### US Federal Regulations:

This product is a “Hazardous Chemical” as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

#### **TSCA Section 12(b) Export Notification**

**(40 CFR 707, Subpt. D):**

Not regulated.

#### **CERCLA Hazardous Substance List**

**(40 CFR 302.4):**

Not listed.

#### **SARA 304 Emergency Release**

**Notification:**

Not regulated.

#### **OSHA Specifically Regulated**

**Substances (29 CFR 1910.1001-1050):** Not listed.

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### **Hazard Categories:**

Immediate Hazard-Yes

Delayed Hazard-No

Fire Hazard-Yes

Pressure Hazard-No

Reactivity Hazard-No

#### **SARA 302 Extremely Hazardous**

**Substance:**

Not listed.

**SARA 311/312 Hazardous Chemical:** No

**SARA 313 (TRI Reporting):**

Not regulated.

### Other Federal Regulations:

#### **Clean Air Act (CAA) Section 112**

#### **Hazardous Air Pollutants**

**(HAPs) List:**

Not regulated.

#### **Clean Air Act (CAA) Section 112(r)**

#### **Accidental Release Prevention**

**(40 CFR 68.130):** Butane (CAS 106-97-8)  
Propane (CAS 74-98-6)

**Safe Drinking Water Act (SDWA):** Not regulated.

**US State Regulations:**

**US. Massachusetts RTK-Substance List:**

Butane (CAS 106-97-8)  
Propane (CAS 74-98-6)

**US. New Jersey Worker and Community Right-to-Know Act:**

Butane (CAS 106-97-8)  
Propane (CAS 74-98-6)

**US. Pennsylvania Worker and Community Right-to-Know Act:**

Butane (CAS 106-97-8)  
Propane (CAS 74-98-6)

**US. Rhode Island RTK:**

Butane (CAS 106-97-8)  
Propane (CAS 74-98-6)

**US. California Proposition 65:**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

**International Inventories:**

<b>Country or Region</b>	<b>Inventory Name</b>	<b>On Inventory (yes/no)*</b>
<b>Australia</b>	Australian Inventory of Chemical Substances (AICS)	No
<b>Canada</b>	Domestic Substances List (DSL)	Yes
<b>Canada</b>	Non-Domestic Substances List (NDSL)	No
<b>China</b>	Inventory of Existing Chemical Substances in China (IECSC)	Yes
<b>Europe</b>	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
<b>Japan</b>	Inventory of Existing and New Chemical Substances (ENCS)	No
<b>Korea</b>	Existing Chemicals List (ECL)	Yes
<b>New Zealand</b>	New Zealand Inventory	No
<b>Philippines</b>	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
<b>United States &amp; Puerto Rico</b>	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A “Yes” indicates that all components of this product comply with the inventory requirements administered by the governing country(s).

\*A “No” indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## **16. OTHER INFORMATION**

**Issue Date:**

1-19-2015

THE INFORMATION AND RECOMMENDATIONS SET FORTH HEREIN ARE BELIEVED TO BE ACCURATE. BECAUSE SOME OF THE INFORMATION IS DERIVED FROM INFORMATION PROVIDED TO DURO DYNE CORPORATION FROM ITS SUPPLIERS, DURO DYNE CORPORATION MAKES NO WARRANTY, EXPRESSED OR IMPLIED, REGARDING THE ACCURACY OF THE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. SINCE THE USE OF THIS INFORMATION AND THE CONDITIONS AND USE OF THIS PRODUCT ARE CONTROLLED BY THE USER, IT IS THE USER'S OBLIGATION TO DETERMINE THE CONDITIONS OF SAFE USE OF THE PRODUCT. THE INFORMATION IS SUPPLIED FOR YOUR INFORMATION AND CONSIDERATION AND DURO DYNE CORPORATION ASSUMES NO RESPONSIBILITY FOR USE OR RELIANCE THEREON. IT IS THE RESPONSIBILITY OF THE USER OF DURO DYNE CORPORATION PRODUCTS TO COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS.