

Material Safety Data Sheet

SECTION I - IDENTIFICATION AND COMPANY DETAILS

Product name: Formula 600
Product Code: CG-FS-FORM600-H1

Company Name: Chain Guard Industrial Lubricants
Company Address: 21 Amber Street, # 9
Markham, Ontario
L3R 4Z3 Canada

Telephone Number: 1.905.752.LUBE (5823)
Fax Number: 1.905.475.3286
Product Use: Food Grade Synthetic Lubricant

WHMIS Classification: B5
TDG Classification: AEROSOLS, Class 2.1(6.1), UN1950



Health Hazard	1
Fire Hazard	1
Reactivity	0



Under the Clear Language Regulations: refer to Section 1.17 for limited Quantity Shipping Information, if shipping under this exemption.

Emergency Number: 613.996.6666 (CANUTEC) - collect 24hrs
Date Prepared: August 15, 2015
Date Revised: August 15, 2015

SECTION II – COMPOSITION INFORMATION

Chemical Name: Synthetic Mixed Esters and Additives
Physical Appearance: Amber in colour
Physical State: Liquid
Odour: Characteristic

Hazardous Ingredients	CAS Number	Weight %	TLV- ACGIH (ppm)
Propane	74-98-6	10-30	2500
Isobutane	75-28-5	10-30	N/Av.

SECTION III - HAZARDS IDENTITY INFORMATION

OSHA Regulatory Status: This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). Propellant gas reduces oxygen available for breathing. And may decompose at high temperatures forming toxic gases.

Potential Health Effects:

Ingestion: Ingestion is not a likely route of exposure. Single dose oral toxicity is relatively low. Small amounts swallowed incidentally is not likely to cause injury; swallowing larger amounts may cause injury.

Inhalation: Dense gas may reduce the available oxygen for breathing. Prolonged exposure to an oxygen-deficient atmosphere may be fatal.

Skin Contact: May cause mild skin irritation. Prolonged/repeated contact may dry the skin.

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Eye Contact: May cause mild eye irritation. Spray mist of the material can produce chilling sensation and discomfort.

Aggravated Medical Conditions: None known
Sub-chronic Effects: None known
Chronic Effects/Carcinogenicity: Not listed in IARC, NTP, or 29CFR
Other: None known

SECTION IV – FIRST AID MEASURES

Ingestion: Not likely to happen. If swallowed, observe victim for 24 hours; seek medical attention if needed. If vomiting occurs, keep head lower than hips to prevent aspiration.

Inhalation: If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.

Skin Contact: For skin contact, wipe away excess material with dry towel. Then wash affected areas with plenty of water, and mild soap if available, for several minutes. Treat frostbite by immediately immersing affected areas in warm water until the skin has warmed up and turned pink. Get medical attention if irritation occurs.

Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

Notes to Physician: Treatment based on sound judgment of physician and individual reactions of patient. Product contains a minimal amount of triphenyl phosphate that has been reported to be a weak cholinesterase inhibitor in humans.

*****ALWAYS SEEK MEDICAL ATTENTION IF ANY IRRITATION OR ALLERGIC REACTIONS DEVELOP*****

SECTION V – FIREFIGHTING MEASURES

Flammability Class: **Flammable**

Product Flash Point: -104 °C Gas, > 300°C (572°F)

Auto Ignition Temperature: 450 °C

Suitable Extinguishing Media: Dry chemical, Foam, CO₂, or Water fog

Mechanical Impact Sensitivity: None known

Static Discharge Sensitivity: Sensitivity to static discharge is not expected

Flammable Limits in Air (%) LEL: 2.1, UEL: 9.5

Fire and Explosion Hazards: May decompose on contact with flames or extremely hot metal surfaces to produce toxic and corrosive products.

Sensitivity to Mechanical Impact: Not expected to be sensitive.

Sensitivity to Static Discharge: Not expected to be sensitive

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Firefighting Procedures: Containers can build up pressure when exposed to heat or fire. If a fire involving large amounts of material should develop it should not be approached due to the risk of rupture by individual containers causing a “fireball” effect.
Firefighters should wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective clothing gear to prevent contact with skin and eyes. Use water spray to cool nearby containers and structures exposed to fire.

SECTION VI – ACCIDENTAL RELEASE MEASURES

*****TAKE CARE FLOOR SURFACE WILL BE SLIPPERY AT SITE OF SPILLAGE*****

Action to be taken if material is released or spilled:

Large spill or leak is unlikely in aerosol containers. If happens, ventilate enclosed spaces and disperse gas with floor-level forced-air ventilation. Exhaust vapours outdoors. Do not smoke or operate internal combustion engines. Remove flames and heating elements.

SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE

Precautions for Handling & Storage:

Do not breathe vapour or mist. Avoid contact with eyes, skin and clothing. Keep container closed. Use only with adequate ventilation. Do not enter confined spaces unless adequately ventilated.

SECTION VIII – PERSONAL PROTECTION & EXPOSURE CONTROLS

Engineering Controls:	Local exhaust ventilation required to maintain the point of use below the Threshold Limit Value if unprotected personnel are involved.
Personal Protective Equipment	
Respiratory System:	Not required on a short-term basis or if exhaust ventilation is provided. Use approved NIOSH respirators for emergencies.
Skin and Body Protection:	Use gloves & protective clothing against cold temperature made from viton, butyl rubber, PVC, neoprene or nitrile
Hand Protection:	Protective gloves
Eyes and Face Protection:	Use Chemical Safety glasses or goggles with protective side shields; Face shield
Other Special Protection:	None required

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SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES OF PRODUCT

Boiling Point (propellant)	>148.8°C (300°F)	Evaporation Rate	>1 (n-Butyl Acetate = 1)
Vapour Pressure (psia)	85 @ 21.1°C	Lbs/Gallon (Water = 8.3)	8.1 lbs/gallon @ 25°C
Vapour Density (Air = 1)	N/A	Density @ 25°C (Water = 1)	0.972g/cm ³
Freezing Point	N/D	Alkalinity	N/D
Specific Gravity (Aerosol)	0.890 @ 25°C	Specific Gravity (Liquid)	0.970 @ 25°C
Physical State	Aerosol	VOC	N/D
Odour	Characteristic	Solubility in Water (20°C)	Insoluble
Appearance	Spray Mist Amber	Viscosity	220 cSt @ 40°C
Odour Threshold	N/A	% Weight Volatile	100

SECTION X – REACTIVITY DATA

Stability:	Stable under normal temperatures and storage conditions
Conditions to Avoid:	Strong oxidizing agent
Hazardous Decomposition:	May form carbon dioxide and carbon monoxide, various hydrocarbons.
Hazardous Polymerization:	Hazardous polymerization does not occur

SECTION XI – TOXICOLOGICAL INFORMATION

Acute Toxicity:	Product is non-toxic. The product is safe when used for its intended purpose based on its formulation, testing results, and long history of safe consumer use.
Carcinogenicity:	No known effect
Reproductivity:	No known effect

SECTION XII – ECOLOGICAL INFORMATION

Liquid release is only expected to cause localized, non-persistent environmental damage, such as freezing.

SECTION XIII – DISPOSAL CONSIDERATIONS

Disposal Method:	Dispose of in accordance with national and local regulations.
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SECTION XIV – TRANSPORTATION INFORMATION

Ground: Consumer Commodity, ORM-D.

Air: Cannot be shipped by air.

Sea: AEROSOLS, UN# 1950, Class 2.1.

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SECTION XV – REGULATORY INFORMATION

CANADA

WHMIS Classification: A: Compressed gas, B5: Flammable Aerosol

USA

Environmental Protection Act: Constituents of this product are included on the TSCA inventory.

OSHA (29CFR 1910.1200) Classification: Compressed Gas.

HMIS: 1 Health, 2 Fire, 0 Reactivity.

SECTION VI – OTHER INFORMATION

Abbreviations:

ACGIH American Conference of Governmental Industrial Hygienists

CAS Chemical Abstract Service

NIOSH National Institute for Occupational Safety and Health

OSHA Occupational Safety and Health Administration, USA

TSCA Toxic Substances Control Act 1976, USA

PEL Permissible Exposure Limit

TLV Threshold Limit Value

WHMIS Workplace Hazardous Materials Information System

References: Not Available

Other Special Considerations: None

NSF Registration: H1 (FDA regulations 21 CFR 178.3570)

Transport Symbol: Not required

Disclaimer: To the best of our knowledge the information contained herein is accurate. This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR. **This MSDS is valid for three years.**



Nonfood Compounds
Program Listed 1
(Registration # 146178)

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The information contained herein is based on data considered accurate. No warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Chain Guard Industrial Lubricants assumes no responsibility for personal injury or property damage to vendees or users or third parties, caused by the material. Such vendees or users assume all risks with the use of the material

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

*****END OF DOCUMENT*****

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