



Material Safety Data Sheet
GIANT GERM KILLER

Rev: 00
Date: 28/02/2020

Section 1: Chemical and Company Identification

Product Name/Identifier : GIANT GERM KILLER
Company Information : Central Auto Parts and Equipment Limited
84 Armstrong Street, Palmerston North
New Zealand
Emergency Telephone : (64) 6-3535200
Fax Number : (64) 6-3535201

Section 2: Hazards Identification

3.1 GHS Classification

Flammable Liquids	Category 4
Skin Irritation	Category 2
Eye Irritation	Category 2B
Specific Target Organ Toxicity-Single Exposure-Respiratory System	Category 3

3.2 GHS Label elements, including precautionary statements

Label Elements:



Signal Words: Danger

Hazard Statements:

H225	Highly flammable liquid and vapor
H315+H320	Causes skin and eye irritation
H335	May cause respiratory irritation

Precautionary Statements:

P210	Keep away from heat. No smoking.
P233	Keep container tightly closed.
P240	Ground container and receiving equipment.
P241	Use explosion-proof equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing vapors/spray.
P264	Wash hands thoroughly after handling.

P271	Use in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P370+P378	In case of fire: Use appropriate media to extinguish.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Store locked up. Dispose of contents/container in accordance with local regulations

3.3 Other Hazards - None

Section 3: Compositions / Information on Ingredients

Hazardous Components:	Amount	CAS No.	Symbol
Active ingredient - Silver	30 ppm	7440-22-4	Ag
Ethanol	70%	64-17-5	C ₂ H ₅ OH
Other Components:			
Inactive ingredient – PVP K30	0.72%	9003-39-8	PVP K30
Inactive ingredient – DI Water	29.0%	7789-20-0	H ₂ O

No other component needs to be disclosed according to the applicable regulations.

Section 4: First Aid Measures

4.1 Description of first aid measures

If inhaled:	If breathed in, move person into fresh air. If not breathing, give artificial respiration.
In case of skin contact:	Wash off with soap and plenty of water.
In case of eye contact:	Flush eyes with plenty of water.
If swallowed:	Never give anything by mouth to an unconscious person. Rinse mouth with water. Seek medical attention if necessary.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 3.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

Section 5: Fire Fighting Measures

Suitable (and unsuitable) extinguishing media	Flammable liquid. Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material. Cool containers with water.
Special protective equipment and precautions for firefighters	Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots. Material can react violently with water (spattering and misting) and react with metals to produce flammable hydrogen gas.
Specific hazards arising from the chemical	Emits toxic fumes (carbon oxides) under fire conditions. (See also Stability and Reactivity section). Vapors can travel to a source of ignition and flash back.

	Containers may explode in a fire. Cool containers from a distance using water spray. SENSITIVE TO STATIC DISCHARGE.
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Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	See section 8 for recommendations on the use of personal protective equipment.
Environmental precautions	Prevent spillage from entering drains. Any release to the environment may be subject to federal/national or local reporting requirements.
Methods and materials for containment and cleaning up	Absorb neutralized spill with vermiculite or other inert absorbent material, then place in a suitable container for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations.

Section 7: Handling and Storage

7.1 Precautions for safe handling

Use with adequate ventilation and grounding. Wash thoroughly after using. Keep container closed when not in use.

7.2 Conditions for safe storage, including any incompatibilities

Store in tightly closed, original containers in a cool, dry, well ventilated area. Store between 55-100°F for product stability. Do not store with strong oxidizing agents, strong acids, peroxides, aldehydes, halogens, ammonia, acid anhydrides or alkali metals.

7.3 Incompatibilities and other precautions:

Avoid contact with chloride containing material

Section 8: Exposure Controls / Personal Protection

Occupational Exposure Controls: Ventilation and proper grounding of containers.

Component	Exposure Limits	Basis	Entity
Ethyl Alcohol	1000 ppm 1900 mg/m ³	REL	NIOSH
	1000 ppm 1900 mg/m ³	PEL	OSHA
	1000 ppm 1880 mg/m ³	STEL	ACGIH

TWA : Time Weighted Average over 8 hours of work.

TLV : Threshold Limit Value over 8 hours of work.

REL : Recommended Exposure Limit

PEL : Permissible Exposure Limit

STEL : Short Term Exposure Limit during x minutes.

IDLH : Immediately Dangerous to Life or Health

WEEL : Workplace Environmental Exposure Levels

CEIL : Ceiling

Eyes	Wear chemical safety glasses or goggles.
Inhalation	Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an approved respirator.
Skin	Wear nitrile or rubber gloves, apron or lab coat.
Others	Not available.

Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties:

Appearance Form	: Clear, Slightly Yellow Liquid
Odour	: Mild Alcohol
Boiling Point	: 78.4 °C
Flash Point	: 15.0 °C (closed cup)
Upper/Lower Flammability or Explosive Limit	: 3.3 – 19.0 °C
Water Solubility	: Completely Soluble
Density	: No Data Available
Vapour Pressure @ 20°C	: 44.6 mmHg
Median Silver Particle Size	: < 25 nm
Decomposition Temperature	: No Data Available
Viscosity	: No Data Available
Explosive Properties	: No Data Available
Oxidizing Properties	: No Data Available

Section 10: Stability and Reactivity

Chemical Stability	Stable.
Possibility of Hazardous Reactions	Will not occur.
Conditions to Avoid	Keep away from heat, flame and sparks.
Incompatible Materials	Alkali metals, ammonia, oxidizing agents, peroxides.
Hazardous Decomposition Products	Carbon oxides.

Section 11: Toxicological Information

Acute Toxicity

Ethanol

Skin	Not available
Eyes	Not available
Respiratory	LC50 Inhalation – rat – 10 h – 20000 ppm
Ingestion	LD50 Oral – rat – 7,060 mg/kg

Carcinogenicity

IARC	No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH	A3: Confirmed animal carcinogen with unknown relevance to humans (ethanol).
NTP	No components of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA	No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Signs & Symptoms of Exposure

Skin	Irritation, drying of skin.
Eyes	Irritation, redness, watering of eyes.
Respiratory	Irritation, coughing, dizziness, drowsiness.
Ingestion	Irritation, nausea, vomiting.

Section 12: Ecological Information

Ecotoxicity

Ethanol

Aquatic Vertebrate	LC ₅₀ (96 hours): 13,000 mg/L <i>Oncorhynchus mykiss</i> (Rainbow Trout)
Aquatic Invertebrate	Not available

Terrestrial	Not available
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Persistence and Degradability	Not available
Bioaccumulative Potential	Will not accumulate
Mobility in Soil	Not available
PBT and vPvB Assessment	Not available
Other Adverse Effects	Not available

Section 13: Disposal Considerations

Waste Product or Residues	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies, if necessary, before disposing of waste product or residue.
Product Containers	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies, if necessary, before disposing of waste product container.

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods.

Section 14: Transport Information

US DOT	UN1170, Ethanol solution, 3, pg II
TDG	UN1170, Ethanol solution, 3, pg II
IMDG	UN1170, Ethanol solution, 3, pg II
Marine Pollutant	No
IATA/ICAO	UN1170, Ethanol solution, 3, pg II

Section 15: Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Local Regulations

Workplace Safety and Health Act & Workplace Safety and Health (General Provision) Regulations	This product is subject to the SDS, Labelling, PEL and other requirements in the Act/Regulations.
Fire Safety Act and Fire Safety (Petroleum & Flammable Materials) Regulations	This product is subject to the requirements in the Act/ Regulations.
Maritime and Port Authority of Singapore (Dangerous Goods, Petroleum and Explosives) Regulations	This product is subject to the requirements of this regulation.
Environmental Protection and Management Act and Environmental Protection and Management (Hazardous Substances) Regulations	This product is subject to the requirements in the Act/Regulations.

Section 16: Other Information

The information presented herein is based on data considered to be accurate as of the date of preparation of this Material Safety Data Sheet. In addition, no responsibility can be assumed by the manufacturer or vendor for any damage or injury resulting from abnormal use, from any failure to adhere to any recommended practices, from any hazards inherent in the nature of the product, or from any additions or changes in form or substance to the product as distributed by the manufacturer or vendor.