CHAIN WAX

Version: 1.1
Released: 2015-06-01 Revision Date: 2015-05-28

1. IDENTIFICATION OF THE SUBSTANCE / APPLICATION AND THE COMPANY

Supplier:
Maxima Racing Oils
9266 Abraham Way
Santee, CA 92071
USA
+1 619 449 5000

Product Name: Chain Wax
Article Number: 74920
Generic Chemical Name: Aerosol
Applications: Chain Lubricant

Emergency Telephone: CHEMTREC +1 703 527 3887 (24 hours)

2. HAZARDS IDENTIFICATION

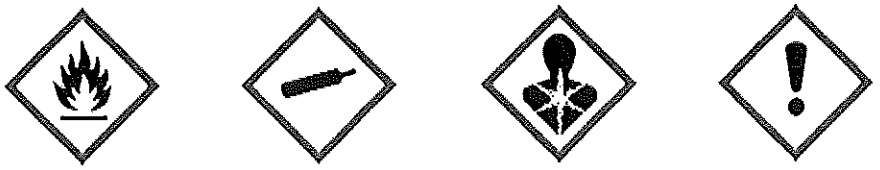
GHS Classification

Flammable Aerosol	Category 1
Gas Under Pressure	Liquefied Gas
Aspiration Toxicity	Category 1
Skin Irritation	Category 2
Skin Sensitization	Category 1
Eye Irritant	Category 2A
Reproductive Toxicity	Category 2
Specific Target Organ Toxicity Single Exposure	Category 3 (Nervous system effects)
Specific Target Organ Toxicity Repeat Exposure	Category 2

Note: This product is a consumer product and is labeled in accordance with the US Consumer Product Safety Commission regulations which take precedence over OSHA Hazard Communication labeling. The actual container label will not include the label elements below. The labeling below applies to industrial/professional products.

Label Elements:

GHS Pictogram



Signal Word **DANGER!**

Hazard Statements

Extremely Flammable Aerosol.
Contains gas under pressure; may explode if heated.
May be fatal if swallowed and enters airways.
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.

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May cause drowsiness or dizziness.
Suspected of damaging fertility or the unborn child.
May cause damage to nervous system through prolonged or repeated exposure.

Precautionary Statements

Prevention
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
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.
Do not breathe vapors or mists.
Contaminated work clothing should not be allowed out of the workplace.
Wash thoroughly with soap and water after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves and eye protection.

Response
IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting.
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.
IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical attention. Take off contaminated clothing and wash before reuse.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.
IF exposed or concerned: Get medical advice.

Storage
Store locked up.
Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store in a well-ventilated place.

Disposal
Dispose of contents and container in accordance with local and national regulations.

Other Hazards
None

3. COMPOSITION / INFORMATION ON INGREDIENTS

Components	Content %	CAS Number	US Hazcom 2012/ GHS Classification
n-Hexane	20-30	110-54-3	Flammable Liquid Category 2 Aspiration Toxicity Category 1 Skin Irritation Category 2

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Acetone	20-30	67-64-1	Reproductive Toxicity Category 2 Specific Target Organ Toxicity Single Exposure Category 3 (nervous system effects) Specific Target Organ Toxicity Repeat Exposure Category 2 Flammable Liquid Category 2 Eye Irritation Category 2A Specific Target Organ Toxicity Single Exposure Category 3 (nervous system effects)
Liquefied Petroleum Gas (Propane, Isobutane)	20-30	68476-86-8	Flammable Gas Category 1 Gas Under Pressure, Liquefied Gas
Residual oils, petroleum, solvent refined	<10	64742-01-4	Not Hazardous
Stoddard Solvent	<10	8052-41-3	Aspiration Toxicity Category 1 Skin Irritation Category 2 Specific Target Organ Toxicity Single Exposure Category 3 (nervous system effects)
Solvent Naphtha Aliphatic	<5	64742-89-8	Aspiration Toxicity Category 1 Skin Irritation Category 2 Specific Target Organ Toxicity Single Exposure Category 3 (nervous system effects)
Additive	<0.5	Proprietary	Skin Sensitization Category 1

Note: The specific identity and/or exact percentage been withheld as a trade secret.

4. FIRST-AID MEASURES

Inhalation	If irritation is experienced, move to fresh air. Get medical attention if irritation or other symptoms develop and persist.
Skin Contact	Wash with soap and water for several minutes. Remove contaminated clothing and wash before reuse. If irritation develops and persists, get medical attention.
Eye Contact	Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists
Ingestion	Aspiration Hazard. DO NOT induce vomiting. Call physician or poison control center.
Most Important Symptoms	May cause eye and skin irritation. May cause skin sensitization. Inhalation may cause drowsiness, dizziness and other nervous system effects. Harmful or

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	fatal if swallowed. Aspiration of liquid into the lungs during swallowing or vomiting may cause lung damage. N-Hexane exposure can cause peripheral neuropathies. Initial symptoms include numbness in the extremities. Motor weakness may also occur. Prolonged exposure may cause reproductive harm and may damage the nervous system.
Indication of Immediate Medical Attention Needed	Immediate medical attention is needed for ingestion.
Notes to Physician	Treat appropriately.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Use water fog, dry chemical, carbon dioxide or foam. Do not use water jet or flooding amounts of water. Burning product will float on the surface and spread fire.
Specific Hazards Arising From The Chemical	Extremely flammable aerosol. Highly flammable liquid and vapor. Contents under pressure. Keep away from ignition source and open fire. Exposure of containers to extreme heat and flames can cause them to rupture often with violent force. Vapors can cause a flash fire. Vapors are heavier than air and may travel along surfaces to remote ignition sources and flash back. A vapor and air mixture can create an explosion hazard in confined spaces. Combustion will produce oxides of carbon, saturated and unsaturated hydrocarbons.
Special Protective Equipment And Precautions For Fire-Fighters	Firefighters should always wear positive pressure self-contained breathing apparatus and full protective clothing. Cool fire-exposed containers with water. Use shielding to protect against bursting containers.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Wear appropriate protective clothing (see Section 8). Eliminate all sources of ignition and ventilate area
Environmental Hazards	Not determined
Methods/Materials for Cleaning up	Leaking cans should be placed in a plastic bag or open pail until the pressure has dissipated. Contain and collect liquid with an inert absorbent and place in a container for disposal. Clean spill area thoroughly. Report spills to authorities as required.

7. HANDLING AND STORAGE

Precautions for Safe Handling:	Avoid contact with eyes and skin. Avoid breathing vapors or aerosols. Use only with adequate ventilation. Keep away from heat, sparks, pilot lights,

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	hot surfaces and open flames. Unplug electrical tools, motors and appliances before spraying or bringing the can near any source of electricity. Electricity can burn a hole in the can and cause contents to burst into flames. To avoid serious burn injury, do not let the can touch battery terminals, electrical connections on motors or appliances or any other source of electricity. Wash thoroughly with soap and water after handling. Keep containers closed when not in use. Keep out of the reach of children. Do not puncture, crush or incinerate containers, even when empty.
Conditions for Safe Storage	Store in a cool, well-ventilated area, away from incompatible materials. Do not store above 120°F or in direct sunlight. U.F.C (NFPA 30B) Level 3 Aerosol. Store away from oxidizers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits	n-Hexane	50 ppm TWA ACGIH TLV (skin) 500 ppm TWA OSHA PEL
	Acetone	250 ppm TWA, 500 ppm STEL ACGIH TLV 1000 ppm TWA OSHA PEL
	Propane	1000 ppm TWA OSHA PEL
	Isobutane	1000 ppm STEL ACGIH TLV
	Residual oils, petroleum, solvent refined	5 mg/m3 TWA ACGIH TLV (inhalable) (as mineral oil) 5 mg/m3 TWA OSHA PEL (as oil mist, mineral)
	Stoddard Solvent	100 ppm TWA ACGIH TLV 500 ppm TWA OSHA PEL
	Solvent Naphtha Aliphatic	5 mg/m3 TWA ACGIH TLV (inhalable) (as mineral oil) 5 mg/m3 TWA OSHA PEL (as oil mist, mineral)
	Additive	None Established

The Following Controls are Recommended for Normal Consumer Use of this Product

Appropriate Engineering Controls	Use in a well-ventilated area.
Personal Protection	
Respiratory Protection:	None needed for normal use with adequate ventilation.
Eye Protection:	Avoid eye contact. Always spray away from your face.
Skin/Body Protection:	Avoid prolonged skin contact. Chemical resistant gloves recommended for operations where skin contact is likely.

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For Bulk Processing or Workplace Use the Following Controls are Recommended

Appropriate Engineering Controls	Use adequate general and local exhaust ventilation to maintain exposure levels below that occupational exposure limits.
Personal Protection	
Respiratory Protection:	None required if ventilation is adequate. If the occupational exposure limits are exceeded, wear a NIOSH approved respirator. Respirator selection and use should be based on contaminant type, form and concentration. Follow OSHA 1910.134, ANSI Z88.2 and good Industrial Hygiene practice.
Eye Protection:	Safety goggles recommended where eye contact is possible.
Skin/Body Protection:	Wear chemical resistant gloves.
Work/Hygiene Practices:	Wash with soap and water after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid
Color	Clear brown
Odor	Mild odor
Odor Threshold	Not established
pH	Not applicable
Freezing Point	Not established
Boiling Point	132.8°F (56°C) (Acetone)
Flash Point	-14.8°F (-26°C) (n-Hexane)
Evaporation Rate	Not established
Flammability (solid, gas)	Flammable Aerosol
Upper Explosion Limit	13.0%
Lower Explosion Limit	1.2%
Vapor Pressure	153 mmHg @ 77°F (25°C) (n-Hexane)
Vapor Density (Air=1)	Not established
Relative Density	Not established
Solubility	Partially soluble in water
Partition Coefficient: n-octanol/water	Not established
Auto Ignition Temperature	Not established
Decomposition Temperature	Not established
Volatile Organic Compounds (VOC)	50%
Viscosity	Not established
Pour Point	Not established

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10. STABILITY AND REACTIVITY

Reactivity	Not reactive under normal conditions
Chemical Stability	Stable.
Possibility of Hazardous Reactions	Acetone reacts violently with chloroform in the presence of bases.
Conditions to Avoid	Avoid heat, sparks, flames and other sources of ignition. Do not puncture or incinerate containers.
Incompatible Materials	Strong oxidizers, acids, peroxides, and reducing agents.
Hazardous Decomposition Product	Thermal decomposition will generate oxides of carbon, saturated and unsaturated hydrocarbons.

11. TOXICOLOGICAL INFORMATION

Potential Health Hazards
Eye Contact: Contact may be irritating to eyes. May cause redness, stinging, swelling and tearing
Skin Contact: May cause skin irritation with short-term exposure with redness, itching and burning of the skin. Prolonged and/or repeated contact may produce defatting and possible dermatitis. May cause an allergic skin reaction (sensitization).
Inhalation: Mist or vapor can irritate the throat and lungs. High concentrations may cause nasal and respiratory irritation and central nervous system effects such as headache, dizziness and nausea. Intentional abuse may be harmful or fatal.
Ingestion: Swallowing may cause gastrointestinal irritation, nausea, vomiting and diarrhea. The liquid contents are an aspiration hazard. If swallowed, can enter the lungs and may cause chemical pneumonitis
Chronic Effects: Prolonged overexposure may cause nervous system damage. n-Hexane exposure can cause peripheral neuropathies. Initial symptoms include numbness in the extremities. Motor weakness may also occur.
Carcinogen Status: None of the components are listed as a carcinogen or suspect carcinogen by IARC, NTP, ACGIH or OSHA.
Reproductive Toxicity: Prolonged exposure to n-hexane has resulted in decreased sperm count and degenerative changes in the testes of rats but not mice
Numerical Measures of Toxicity: n-Hexane: Oral rat LD50: 16,000 mg/kg, Inhalation rat LC50: >31.86 mg/L/4hr, Dermal rabbit LD50: >2,000 mg/kg
Acetone: Oral rat LD50: 5,800 mg/kg, Inhalation rat LC50: 120 mg/L, Dermal rabbit LD50: 20,000 mg/kg
Liquefied Petroleum Gas: No toxicity data is available
Residual oils, petroleum, solvent refined: Oral rat LD50: >5,000 mg/kg, Inhalation rat LC50: 2.18 mg/L/4hr, Dermal rabbit LD50: >2,000 mg/kg
Stoddard Solvent: No toxicity data is available
Solvent Naphtha Aliphatic: Oral rat LD50: >5,000 mg/kg, Inhalation rat LC50: >5.61 mg/L/4hr, Dermal rabbit LD50: >2,000 mg/kg

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Additive: Oral rat LD50: >5,000 mg/kg, Dermal rabbit LD50: >2,000 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity
n-Hexane: 96 hr LC50 Fathead minnow- 2.5 mg/L, 48 hr EC50 Daphna magna- 2.1 mg/L, 72 hr EbL50 Green algae- 26 mg/L

This product is expected to be harmful to the aquatic environment with long-term adverse effects. Releases to the environment should be avoided.

Biodegradation n-Hexane: Readily biodegradable-83% in 28 days. Additive: Not readily biodegradable- 45% in 28 days.
Bioaccumulation There is a potential for bioaccumulation.
Mobility in soil No data available.
Other adverse effects: None known.

13. DISPOSAL CONSIDERATIONS

Disposal If this product becomes a waste, it would be expected to meet the criteria of a RCRA ignitable hazardous waste (D001). However, it is the responsibility of the generator to determine at the time of disposal the proper classification and method of disposal. Do not puncture or incinerate containers, even empty. Dispose in accordance with federal, state, and local regulations.

14. TRANSPORT INFORMATION

	UN Number	Proper shipping name	Hazard Class	Packing Group	Environmental Hazard
DOT	UN1950	Aerosols	2.1		
IMDG	UN1950	Aerosols	2.1	LTD QTY	Marine Pollutant (Hexane)
ICAO	UN1950	Aerosols, flammable	2.1		

Special precautions: None known.

15. REGULATORY INFORMATION

CERCLA: Releases of this product in excess of the reportable quantity of 16,666 pounds based on the R(for n-hexane of 5,000 lbs present at less than 30% must be reported to the National Response Center. Many states have more stringent release reporting requirements. Report spills required under federal,

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state and local regulations
EPA SARA 302: This product does not contain chemicals regulated under SARA Section 302.
EPA SARA 311/312 Hazard Classification: Acute Health, Chronic Health, Fire Hazard, Sudden Release of Pressure
EPA SARA 313: This product contains the following chemicals subject to SARA Title III Section 313 Reporting requirements: n-Hexane 110-54-3 20-30%
VOC Regulations: This product complies with the consumer product VOC limits of CARB, the US EPA and states adopting the OTC VOC rules
California Proposition 65: This product does not contain chemicals regulated under California Proposition 65.
Canadian CEPA: One of the components is listed on the NDSL. All of the other ingredients are listed on the Canadian Domestic Substances List or exempt from notification.

16. OTHER INFORMATION

NFPA Rating (NFPA 704):	Health: 2	Fire: 4	Instability: 0
HMIS Rating:	Health: 2	Fire: 4	Physical Hazard: 0

Date of Revision: May 28, 2015
Date of Previous Revision: August 2004
Revision History:
5/28/15: Converted to GHS format. All section revised

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

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1. IDENTIFICATION OF THE SUBSTANCE / APPLICATION AND THE COMPANY

1.1 Product Identifier

Trade Name: MPPL
Product Number: 73920

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Product Use: Multi-Purpose Lube - Penetrant
None known

Restrictions on Use:

1.3 Details of the Supplier of the Safety Data Sheet

Manufacturer: Maxima Racing Oils
9266 Abraham Way
Santee, CA 92071
USA
Information Phone Number: +1 619 449 5000
E-mail: info@maximausa.com

1.4 Emergency Telephone Number

Emergency Spill Information: CHEMTREC +1 703 527 3887 (24 hours)

2. HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

GHS/CLP (1272/2008) Classification:
Aerosol Category 1 (H222, H229)
Skin Irritant Category 2 (H315)
Skin Sensitizer Category 1 (H317)
Eye Irritation Category 2 (H319)
Specific Target Organ Toxicity – Single Exposure Category 3 (H336)
Aquatic Chronic Toxicity Category 2 (H411)

2.2 Label Elements
DANGER!

Contains alkanes, C12-14-iso, solvent naphtha (petroleum) light aliphatic, solvent naphtha (petroleum) heavy aliphatic, and limonene.

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Hazard Statements	Precautionary Phrases
H222 Extremely Flammable Aerosol. H229 Pressurized container: may burst if heated. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H411 Toxic to aquatic life with long lasting effects.	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P210 Keep away from heat, sparks, open flames, hot surfaces – No smoking. P211 Do not spray on an open flame or other ignition source. P251 Do not pierce or burn, even after use. P261 Avoid breathing vapors or mists. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves and eye protection. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 If eye irritation persists: Get medical attention. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P308 + P313 IF exposed or concerned: Get medical advice. P405 Store locked up. P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122 °F. P501 Dispose of contents and container as hazardous waste in accordance with local and national regulations.

2.3 Other Hazards: None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixture

Chemical Name	CAS#	EINECS#	GHS/CLP Classification	% w/w
C12-14 Isoparaffin Alkanes, C12-14-iso	68551-19-9	271-369-5	Flam Liq 4 (H227) Asp. Tox. 1 (H304) EUH066	15-40
Distillates (petroleum), hydrotreated light	64742-47-8	265-149-8	Flam. Liquid 3 (H226) Skin Irrit. 2 (H315) Eye 2A (H319)	15-40

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			Asp. Tox. 1 (H304) STOT SE 3 (H336) Aquatic Chronic 2 (H411)	
Solvent Naphtha (petroleum) heavy aliphatic	64742-96-7	265-200-4	Flam. Liquid 3 (H226) Skin Irrit. 2 (H315) Asp. Tox. 1 (H304) STOT SE 3 (H336) Aquatic Chronic 2 (H411)	15-40
Propane/Isobutane propellant	74-98-6 75-28-5	200-827-9 200-857-2	Flammable Gas 1 (H220) Gas Under Press; Liquefied gas (H280)	15-40
Limonene	5989-27-5	227-813-5	Flam. Liquid 3H226 Skin Irrit. 2 H315 Skin Sens. 1BH317 Asp. Tox. 1H304 Aquatic Acute 1H400 Aquatic Chronic 1H410	1-5

The exact percentage and composition are being withheld as a trade secret

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures

Eye: Flush eyes with large quantities of water for at least 15 minutes, holding the eyelids apart. Get medical attention if irritation develops or persists.
Skin: Remove contaminated clothing. Wash skin thoroughly with soap and water for several minutes. If irritation or rash develops, get medical attention. Launder clothing before re-use.
Inhalation: Immediately remove to fresh air. If breathing is difficult have qualified personnel administer oxygen. If breathing has stopped, administer artificial respiration. Get medical attention.
Ingestion: Unlikely route of exposure with an aerosol container. If conscious, rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious or convulsing person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration into the lungs. Get immediate medical attention.

4.2 Most Important symptoms and effects, both acute and delayed: May cause serious eye and skin irritation. May cause an allergic skin reaction Inhalation of vapors or mist may cause respiratory irritation and central nervous system effects such as headache, dizziness, drowsiness, nausea and unconsciousness. Aspiration hazard: Harmful or fatal if swallowed.

4.3 Indication of any immediate medical attention and special treatment needed: Immediate medical attention is required for ingestion.

SECTION 5: FIRE AND EXPLOSION DATA

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5.1 Extinguishing Media: Use water spray, carbon dioxide, alcohol foam or dry chemical.

5.2 Special Hazards Arising from the Substance or Mixture

Unusual Fire and Explosion Hazards: Contents under pressure. Keep away from heat and open flames. Container may rupture or explode in the heat of a fire. Prolonged exposure to temperatures above 50°C may cause cans to burst.

Combustion Products: Combustion may produce carbon and unidentified organic compounds.

5.3 Advice for Fire-Fighters:

Special Fire Fighting Procedures: Firefighters should wear full emergency equipment and an approved positive pressure self-contained breathing apparatus. Cool exposed intact containers with water. Protect against bursting cans.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:
Evacuate spill area and keep unprotected personnel away. Remove all sources of ignition. Ventilate area. Wear appropriate protective clothing. See also: "Personal Protection "Section 8.

6.2 Environmental Precautions:
Avoid release into the environment. Report spill as required by local and federal regulations.

6.3 Methods and Material for Containment and Cleaning Up:
Collect liquid with an absorbent material and place in a container suitable for flammable waste. Ensure collected material is handled in accordance with section 13 "Disposal Considerations".

6.4 Reference to Other Sections: Refer to Section 8 for personal protective equipment and Section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for Safe Handling: Avoid contact with the eyes, skin and clothing. Do not breathe vapors or mists. Wear protective clothing and equipment. Use only with adequate ventilation. Wash thoroughly with soap and water after handling. Keep away from heat sources. Contents under pressure. Do not smoke during use. Do not smoke during use. Do not expose to temperatures above 50°C. Do not puncture or incinerate containers.

7.2 Conditions for Safe Storage, Including any Incompatibilities: Store in a cool, well-ventilated area at temperatures below 50°C. Do not store in direct sunlight. Protect from physical damage.

7.3 Specific end use(s): None specified

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters: Refer to country-specific legislation for specific requirements where not listed below.

Chemical Name	Exposure Limits
C12-14 Isoparaffin Alkanes, C12-14-iso	None Established
Distillates (petroleum), hydrotreated light (as Mineral Oil Mist)	5 mg/m3 TWA ACGIH TLV (inhalable) Denmark: 1 mg/m3 TWA, 2 ,g/m3 STEL Spain: 5 mg/m3 TWA, 10 mg/m3 STEL Sweden: 1 mg/m3 TWA, 3 mg/m3 STEL
Solvent Naphtha (petroleum) heavy aliphatic (as Mineral Oil Mist)	5 mg/m3 TWA ACGIH TLV (inhalable) Denmark: 1 mg/m3 TWA, 2 ,g/m3 STEL Spain: 5 mg/m3 TWA, 10 mg/m3 STEL Sweden: 1 mg/m3 TWA, 3 mg/m3 STEL
Propane	Denmark: 1000 ppm TWA, 2000 ppm STEL Spain: 1000 ppm TWA
Isobutane	1000 ppm STEL ACGIH TLV
Limonene	None Established

8.2 Exposure Controls:

Appropriate Engineering Controls: Use with adequate general or local exhaust ventilation to maintain exposure below occupational exposure limits.

Respiratory Protection: If the exposure limits are exceeded, an approved organic vapor respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with local regulations and good industrial hygiene practice.

Skin Protection: Wear impervious gloves in accordance with EN 374 to avoid skin contact. Protective clothing if needed to avoid skin contact and contamination of personal clothing. Suitable washing should be available in the work area. Contaminated clothing should be removed and laundered before re-use.

Eye Protection: Wear chemical safety glasses or goggles in accordance with EN 166 to avoid eye contact.

Other Protective Equipment: None should be needed under normal use conditions. In Europe follow EN 13034.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic Physical and Chemical Properties

Appearance	Liquid in an aerosol container
Color	No data available
Odor	No data available

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Odor Threshold	No data available
pH	No data available
Freezing Point	No data available
Boiling Point	No data available
Flash Point	No data available
Evaporation Rate	No data available
Flammability (solid, gas)	Flammable aerosol
Upper Explosion Limit	9.5% (propellant)
Lower Explosion Limit	1.8% (propellant)
Vapor Pressure	70 psi @ 70°F (propellant)
Vapor Density (Air=1)	No data available
Relative Density	No data available
Solubility	No data available
Partition Coefficient: n-octanol/water	No data available
Auto Ignition Temperature	No data available
Decomposition Temperature	No data available
Volatile Organic Compounds (VOC)	No data available
Viscosity	No data available

9.2 Other Information: None available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity: Not expected to be reactive

10.2 Chemical Stability: Stable

10.3 Possibility of Hazardous Reactions: None known.

10.4 Conditions to Avoid: Keep away from heat, sparks, flames and all other sources of ignition. Dropping containers may cause bursting.

10.5 Incompatible Materials: Avoid contact with strong oxidizing agents.

10.6 Hazardous Decomposition Products: Combustion may produce carbon and unidentified organic compounds.

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SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:

Potential Health Effects:

Eye Contact: May cause serious irritation with redness and tearing.
Skin Contact: May cause irritation with redness and drying of the skin. May cause an allergic skin reaction.
Inhalation: Inhalation of vapors may cause mucous membrane and respiratory irritation and central nervous system depression with symptoms of headache, dizziness, giddiness, intoxication, nausea, vomiting, disorientation, stupor and unconscious.
Ingestion: Not a normal route of exposure. Ingestion may cause mucous membrane and gastrointestinal irritation, nausea and vomiting. Aspiration into the lungs during ingestion or vomiting may cause serious lung damage which may be fatal.

Acute Toxicity Values:
Acute Toxicity:
C12-14 Isoparaffin Alkanes, C12-14-iso: Oral rat LD50 > 15000 mg/kg, inhalation rat LC50 > 4.951 mg/L/4 hr, dermal rabbit LD50 >= 3160 mg/kg
Distillates (petroleum), hydrotreated light: Oral rat LD50 > 5000 mg/kg, inhalation rat LC50 > 5.28 mg/L, dermal rabbit LD50 > 2000 mg/kg
Solvent Naphtha (petroleum) heavy aliphatic: Oral rat LD50 > 5000 mg/kg, inhalation rat LC50 > 5.28 mg/L/4 hr, dermal rabbit LD50 > 2000 mg/kg
Propane/Isobutane propellant: Propane/Isobutane propellant: Inhalation mouse LC50 520,400 ppm/2 hr
Limonene: Oral rat LD50 > 2000 mg/kg

Skin corrosion/irritation: Product is a skin irritant.

Eye damage/irritation: Product is an eye irritant.

Respiratory Irritation: No data available for mixture. Components are not respiratory irritants.

Respiratory Sensitization: No data available for mixture. Components are not respiratory sensitizers.

Skin Sensitization: This product is classified as a skin sensitizer.

Germ Cell Mutagenicity: No data available for mixture. Components are not germ cell mutagens.

Carcinogenicity: None of the components of this product are listed as a carcinogen or suspected carcinogen by IARC, NTP, or OSHA.

Reproductive Toxicity: No data available for mixture. Components are not reproductive toxins.

Aspiration Hazard: Components are aspiration hazards. Product is not classified as an aspiration hazard due to packaging as an aerosol.

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Specific Target Organ Toxicity:

Single Exposure: No data available

Repeat Exposure: No data available.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

C12-14 Isoparaffin Alkanes, C12-14-iso: Oncorhynchus mykiss LL50 > 1000 mg/L/96 hr
Distillates (petroleum), hydrotreated light: Oncorhynchus mykiss LL50: 2.5 mg/L/96 hr
Solvent Naphtha (petroleum) heavy aliphatic: Oncorhynchus mykiss LL50: 2.5 mg/L/96 hr
Propane/Isobutane propellant: 96 hr LC50 fish 27.98 mg/L, 48 hr EC50 daphnid 14.22 mg/L, 96 hr EC50 Green algae 7.71
Limonene: Pimephales promelas LC50: 0.72 mg/L/96 hr

This product is toxic to aquatic life with long lasting effects. Releases to the environment should be avoided.

12.2 Persistence and Degradability: C12-14 Isoparaffin Alkanes, C12-14-iso: Inherently biodegradable
Distillates (petroleum), hydrotreated light: Not readily biodegradable 58.6% in 28 days.
Solvent Naphtha (petroleum) heavy aliphatic: Not readily biodegradable 58.6% in 28 days.
Limonene: Readily biodegradable

12.3 Bioaccumulative Potential: Limonene: BCF: 1022 L/kg

12.4 Mobility in Soil: No data available.

12.5 Results of PBT and vPvB Assessment: Components do not meet the criteria of PBT or vPvB.

12.6 Other Adverse Effects: None known

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

Dispose in accordance with all local, state and federal regulations. Do not puncture or incinerate containers.

SECTION 14: TRANSPORTATION INFORMATION

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Hazard Class(s)	14.4 Packing Group	14.5 Environmental Hazards
US DOT	UN1950	Aerosols	2.1		

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Canadian TDG	UN1950	Aerosols	2.1		
EU ADR/RID	UN1950	Aerosols	2.1		
IMDG	UN1950	Aerosols	2.1		
IATA/ICAO	UN1950	Aerosols	2.1		

Note: This product can be shipped as a limited quantity if the packaging complies. Inner containers are <5 L capacity so Marine Pollutant does not apply.

14.6 Special Precautions for User: Not applicable

14.7 Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

SECTION 15: REGULATORY INFORMATION

15.1 Safety, Health and Environment Regulations/Legislation Specific for the Substance or Mixture:

This SDS conforms to Regulation (EU) No. 1907/2006 and 2015/830.
Label in accordance with Regulation (EC) No. 1272/2008 (CLP).

SECTION 16: OTHER INFORMATION

Supersedes: None
Date Updated: December 10, 2015
Revision Summary: New document.

GHS Classification for Reference (See Sections 2 and 3):
Aquatic Acute 1 Aquatic Acute Toxicity Category 1
Aquatic Chronic 1 Aquatic Chronic Toxicity Category 1
Aquatic Chronic 2 Aquatic Chronic Toxicity Category 2
Asp. Tox 1 Aspiration Toxicity Category 1
Eye 2 Eye Irritation Category 2
Flam Liq 4 Flammable Liquid 4
Flam Liq 3 Flammable Liquid Category 3
Flammable Gas 1 Flammable Gas Category 1
Gas Under Press; Liquefied gas Gas Under Pressure; Liquefied Gas
Skin Irrit 2 Skin Irritant Category 2
Skin Sens 1B Skin Sensitizer Category 1
STOT SE 3 Specific Target Organ Toxicity – Single Exposure Category 3
EUH066 Repeated exposure may cause skin dryness or cracking
H220 Extremely flammable gas.
H222 Extremely Flammable Aerosol.
H226 Flammable liquid and vapor
H227 Combustible liquid
H229 Pressurized container: may burst if heated.
H280 Contains gas under pressure; may explode if heated.

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H304 May be fatal if swallowed and enters airways
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long lasting effects
H411 Toxic to aquatic life with long lasting effects.

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The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

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1. IDENTIFICATION OF THE SUBSTANCE / APPLICATION AND THE COMPANY

Supplier:
Maxima Racing Oils
9266 Abraham Way
Santee, CA 92071
USA
+1 619 449 5000

Product Name: Clean-Up
Article Number: 75920

Applications: Air Filter Cleaner (Aerosol)

Emergency Telephone: CHEMTREC +1 703 527 3887 (24 hours)

2. HAZARDS IDENTIFICATION

GHS Classification

Aerosols:	Category 1
Gases Under Pressure:	Compressed Gas
Carcinogen:	Category 2

GHS Pictogram

Signal Word Danger!

Hazard Statements
H222 Extremely flammable aerosol.
H280 Contains gas under pressure; may explode if heated.
H351 Suspected of causing cancer.

Precautionary Statements

Prevention
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat, sparks, open flames or hot surfaces. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Pressurized container: Do not pierce or burn, even after use.
P280 Wear protective gloves.

Response
P308 + P313 IF exposed or concerned: Get medical attention.

Storage
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store in a well-ventilated place.
P405 Store locked up.

Disposal
P501 Dispose of contents and container in accordance with local and national regulations.

Other Hazards None

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3. COMPOSITION / INFORMATION ON INGREDIENTS

Components	Content %	CAS Number
Propane /Isobutane Propellant	30-50	74-98-6 75-28-5
Aliphatic Distillates	5-15	64742-94-5
2-Butoxyethanol	1-5	111-76-2
Naphthalene	0.1-1	91-20-3

The specific identity and/or exact percentage has been withheld as a trade secret.

4. FIRST-AID MEASURES

Inhalation	Immediately remove to fresh air. If breathing is difficult or irritation develops, get medical attention.
Skin Contact	Remove contaminated clothing. Wash skin thoroughly with soap and water. If irritation develops, get medical attention. Launder clothing before re-use.
Eye Contact	Flush eyes with large quantities of water, holding the eyelids apart. Get medical attention if irritation develops or persists.
Ingestion	Unlikely route of exposure with an aerosol container. If conscious, rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious or convulsing person.
Most Important Symptoms	May cause mild eye irritation. Prolonged skin contact may cause irritation and drying of the skin. Inhalation of vapors or mist may cause respiratory irritation and central nervous system effects such as headache, dizziness, drowsiness, nausea and unconsciousness.
Indication of Immediate Medical Attention Needed	No immediate medical attention is required.
Notes to Physician	Treat appropriately.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Use water fog, foam, dry chemical or carbon dioxide to extinguish.
Specific Hazards Arising From The Chemical	Contents under pressure. Keep away from heat and open flames. Container may rupture or explode in the heat of a fire. Prolonged exposure to temperatures above 120°F may cause cans to burst. Combustion may produce carbon and sulfur oxides.

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Special Protective Equipment And Precautions For Fire-Fighters	Firefighters should wear full emergency equipment and a NIOSH approved positive pressure self-contained breathing apparatus. Cool exposed intact containers with water. Protect against bursting cans.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Evacuate spill area and keep unprotected personnel away. Remove all sources of ignition. Ventilate area. Wear appropriate protective clothing. See also: "Personal Protection "Section 8.
Environmental Hazards	Avoid release into the environment. Report spill as required by local and federal regulations.
Methods/Materials for Cleaning up	Collect liquid with an absorbent material and place in a container suitable for flammable waste. Ensure collected material is handled in accordance with section 13 "Disposal Considerations".

7. HANDLING AND STORAGE

Precautions for Safe Handling	Avoid contact with the eyes, skin and clothing. Do not breathe vapors or mists. Wear protective clothing and equipment. Use only with adequate ventilation. Wash thoroughly with soap and water after handling. Keep away from heat sources. Contents under pressure. Do not smoke during use. Do not expose to temperatures above 120°F. Do not puncture or incinerate containers.
Conditions for Safe Storage	Store in a cool, well-ventilated area at temperatures below 120°F. Do not store in direct sunlight. Protect from physical damage.
Aerosol Fire Protection Level	Level 2 Aerosol (NFPA 30B)

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits	Propane /Isobutane Propellant	1000 ppm TWA OSHA PEL (as propane) 1000 STEL ACGIH TLV (as butane)
	Aliphatic Distillates	5 mg/m3 TWA OSHA PEL (as oil mist) 5 mg/m3 TWA ACGIH TLV (as mineral oil)
	2-Butoxyethanol	50 ppm, skin OSHA PEL 20 ppm TWA ACGIH TLV
	Naphthalene	10 ppm TWA OSHA PEL 10 ppm TWA ACGIH TLV

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Appropriate Engineering Controls	General ventilation should be adequate for normal use. If vapor concentrations are excessive, use with adequate local exhaust ventilation to maintain exposures below the occupational exposure limits.
Personal Protection	
Respiratory Protection	If the exposure limits are exceeded, a NIOSH approved organic vapor respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134 and good industrial hygiene practice.
Eye Protection	Wear chemical safety glasses or goggles to prevent eye contact.
Skin/Body Protection	Protective clothing if needed to avoid prolonged skin contact and contamination of personal clothing. Suitable washing should be available in the work area. Contaminated clothing should be removed and laundered before re-use.
Hand Protection	Wear impervious gloves to avoid prolonged skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid in an aerosol container
Color	Light green liquid
Odor	Petroleum odor
Odor Threshold	No data available
pH	8.5
Freezing Point	No data available
Boiling Point	210°F (98.8°C)
Flash Point	>150°F (65.5°C)
Evaporation Rate	<1
Flammability (solid, gas)	Flammable aerosol
Upper Explosion Limit	9.5% (propellant)
Lower Explosion Limit	1.8% (propellant)
Vapor Pressure	70 psi @ 70°F (propellant)
Vapor Density (Air=1)	No data available
Relative Density	1.0 @ 60°F (15.5°C)
Solubility	Soluble in hydrocarbons; soluble in water
Partition Coefficient: n-octanol/water	No data available
Auto Ignition Temperature	No data available
Decomposition Temperature	No data available
Volatile Organic Compounds (VOC)	No data available
Viscosity	No data available

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10. STABILITY AND REACTIVITY

Reactivity	Not expected to be reactive.
Chemical Stability	Stable.
Possibility of Hazardous Reactions	None known.
Conditions to Avoid	Keep away from heat, sparks, flames and all other sources of ignition. Dropping containers may cause bursting.
Incompatible Materials	Avoid contact with strong oxidizing agents.
Hazardous Decomposition Product	Thermal decomposition may produce carbon and sulfur oxides.

11. TOXICOLOGICAL INFORMATION

Potential Health Hazards
Eye Contact: May cause mild irritation with redness and tearing.
Skin Contact: Prolonged skin contact may cause mild irritation and drying of the skin.
Inhalation: Inhalation of vapors may cause mucous membrane and respiratory irritation and central nervous system depression with symptoms of headache, dizziness, giddiness, intoxication, nausea, vomiting, disorientation, stupor and unconscious.
Ingestion: Ingestion may cause mucous membrane and gastrointestinal irritation and nervous system depression with symptoms of headache, dizziness, nausea, narcosis and unconsciousness. Aspiration into the lungs during ingestion or vomiting may cause serious lung damage which may be fatal.
Chronic Effects of Overexposure: None known.
Sensitization: None of the components have been found to cause sensitization in animals or humans.
Mutagenicity: This product is not expected to cause mutagenic activity.
Reproductive Toxicity: None of the components have been shown to cause reproductive or developmental effects.
Carcinogenicity: Naphthalene is classified by IARC as "Possibly Carcinogenic to Humans", Group 2B and by NTP as "Reasonably Anticipated to be a Human Carcinogen". None of the other components of this product are listed as a carcinogen or suspected carcinogen by IARC, NTP, or OSHA.

Acute Toxicity:

Propane/Isobutane Propellant	Inhalation mouse LC50 520,400 ppm/2 hr
Aliphatic Distillates:	Oral rat LD50: 5210 mg/kg, inhalation rat LC50 > 4.778 mg/L, dermal rabbit LD50 > 2000 mg/kg
2-Butoxyethanol:	Oral guinea pig LD50 >1414 mg/kg, inhalation rat LC50 > 3.91 mg/L/4 hr, dermal rabbit LD50 > 2000 mg/kg
Naphthalene:	Oral mouse LD50 710 mg/kg, Inhalation rat LC50 >0.4 mg/L (highest attainable concentration), Dermal rat LD50 >2500 mg/kg

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12. ECOLOGICAL INFORMATION

Ecotoxicity

Propane/Isobutane Propellant	96 hr LC50 fish 27.98 mg/L, 48 hr EC50 daphnid 14.22 mg/L, 96 hr EC50 Green algae 7.71
Aliphatic Distillates:	96 hr LL50 Oncorhynchus mykiss 2-5 mg/L, 48 hr EL50 daphnia magna 1.4 mg/L, 72 hr EL50 Pseudokirchnerella subcapitata 1-3 mg/L
2-Butoxyethanol:	96 hr LC50 Oncorhynchus mykiss 1474 mg/L, 48 hr EC50 daphnia magna 1550 mg/L, 72 hr EC50 Pseudokirchnerella subcapitata 911 mg/L
Naphthalene:	96 hr LC50 Pimephales promelas 7.9 mg/L, 48 hr EC50 daphnia magna 2.16 mg/L

Biodegradation 2-Butoxyethanol and naphthalene are readily biodegradable. Aliphatic distillates is inherently biodegradable.

Bioaccumulation 2-Butoxyethanol has a BCF of 3 which suggests a low potential to bioaccumulate in aquatic organisms. Aliphatic has the potential to bioaccumulate in aquatic organisms.

Mobility in soil 2-Butoxyethanol is highly mobile in soil.

Other adverse effects None known.

13. DISPOSAL CONSIDERATIONS

Disposal Dispose in accordance with all local, state and federal regulations. Do not puncture or incinerate containers.

14. TRANSPORT INFORMATION

	UN Number	Proper shipping name	Hazard Class	Packing Group	Environmental Hazard
DOT	UN1950	Aerosols	2.1		
TDG	UN1950	Aerosols	2.1		
IMDG	UN1950	Aerosols	2.1		
IATA	UN1950	Aerosols	2.1		

Note: This product can be shipped as a limited quantity if the packaging complies.

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): Not applicable – product is transported only in packaged form

Special precautions: None known.

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15. REGULATORY INFORMATION

CERCLA: This product has a Reportable Quantity (RQ) of 10,000 lbs. (based on the RQ for Naphthalene of 100 lbs). Releases above the RQ must be reported to the National Response Center. Many states hav more stringent release reporting requirements. Report spills required under federal, state and local regulations

EPA SARA 302: This product does not contain chemicals regulated under SARA Section 302.

EPA SARA 311 Hazard Classification: Chronic Health, Fire Hazard, Sudden Release of Pressure.

EPA SARA 313: This product contains the following chemicals that are regulated under SARA Title III, section 313:

Glycol Ethers (2-Butoxyethanol)	111-76-2	1-5%
Naphthalene	91-20-3	0.1-1%

California Proposition 65: This product contains the following chemicals known to the State of Californi to cause cancer and reproductive toxicity:

Naphthalene	91-20-3	0-1-1%	Cancer

Chemical Inventories

Toxic Substances Control Act: All of the components of this product are listed on the TSCA inventory

16. OTHER INFORMATION

NFPA Rating (NFPA 704):	Health: 1	Fire: 3	Instability: 0
HMIS Rating:	Health: 1*	Fire: 4	Physical Hazard: 0

*Chronic Health Hazard

Date of Revision: July 17, 2015
Date of Previous Revision: August 2014
Revision History:
7/17/15: Converted to GHS format. All section revised

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.