STIHL CARBURETOR AND CHOKE CLEANER

Packaged for Stihl Incorporated, 536 Viking Drive, Virginia Beach, VA 23452

Safety Data Sheet

Conforms to HCS 2012 (29 CFR 1910.1200)

Section 1. Identification

Product identifier

Product Name:	**STIHL CARBURETOR AND CHOKE CLEANER (Aerosol)**
Part/Product Number(s):	L-13226, **0000-881-9401**, 7010-881-9400
Material Use:	Non-chlorinated aerosol carburetor & choke cleaner.
Uses advised against:	None listed.
Manufacturer:	Chicago Aerosol, LLC 8407 S. 77th Avenue Bridgeview, IL 60455 (708) 598-7100
Distributor:	Omni Specialty Packaging, LLC 10399 Hwy 1 South Shreveport, LA 71115 1-318-524-1100
Issuing date:	June 2, 2015
Revision date:	June 2, 2015
Revision number:	0
Company contact:	OMNI EHS Department; E-Mail: sds@osp.cc; Contact phone: 318-524-1100 (Monday-Friday, 8:00 AM – 4:00 PM, CST)
In case of emergency:	CHEMTREC: Within USA and Canada: 1 (800) 524-9300 (24/7) CHEMTREC Outside USA and Canada: +1 703-527-3887 (24/7)

Section 2. Hazards Identification

OSHA/HCS Status: This product is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

GHS Classification of the substance or Mixture:

Flammable Aerosol –	Category 1
Gas under pressure –	Liquefied gas
Skin Corrosion/Irritation –	Category 3
Eye Damage/Irritation –	Category 2B
Aspiration Hazard –	Category 1
STOT-SE –	Category 3

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 label below applies to industrial, professional products.

GHS Label Elements

Hazard pictograms:

Signal word: DANGER

Hazard statement: Extremely flammable aerosol.
Contains gas under pressure; may explode if heated.
May be fatal if swallowed and enters airways.
Causes mild skin irritation.
Causes eye irritation.

Precautionary statements

General: Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

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.
Wash hands thoroughly after handling.

Response: Do NOT induce vomiting.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue to rinse.
If skin irritation occurs, Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.

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

Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazards not otherwise classified (HNOC): Defatting to the skin.

Section 3. Composition/Information on Ingredients

Mixture consisting of the following components, special 2-stroke gasoline.

Substance/mixture: Mixture

Components Name	CAS number	Weight %*	GHS Classification
ACETONE	67-64-1	50 – 60	Flam. Liq. 2, Eye Irrit.2, STOT-SE 3 (CNS)
HEPTANE	142-82-5	30 – 40	Flam. Liq. 2, Repr 2, Asp. 1, Skin Irrit. 2, STOT-SE 3 (CNS), Aquatic Acute 1, Aquatic Chronic 2
PROPANE	74-98-6	10 – 20	Flam. Gas 1

This product does not contain known hazardous materials at the ≥ 1% level or known carcinogens at the ≥ 0.1% level as defined by 29 CFR 1910.1200.

* The exact percentage of composition has been withheld as a trade secret.

Section 4. First Aid Measures

Description of necessary first aid measures

Eye contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Check for and remove any contact lenses. Get medical attention.

Skin contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation or redness develops.

Inhalation: If inhaled, remove to fresh air. If person is not breathing, provide artificial respiration. If necessary, provide additional oxygen once breathing is restored if trained to do so. Get medical attention immediately.

Ingestion: Do NOT induce vomiting. Do not give liquids. Obtain immediate medial attention. If spontaneous vomiting occurs, lean victim forward to reduce the risk of aspiration. Monitor for breathing difficulties. Small amounts of material which enter the mouth should be rinsed out until the taste is dissipated.

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training. Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Wear personal protective clothing (see section 8).

Most important symptoms and effects, both acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

Most Important

Symptoms and Effects: Repeated exposure may cause skin dryness or cracking. May cause drowsiness or dizziness.

Note to physician: Treat symptomatically.

Section 5. Fire-Fighting Measures

Extinguishing Media

Suitable Media: In case of fire, use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use foam, alcohol foam, dry chemical, carbon dioxide (CO2) extinguisher or spray.

Unsuitable Media: CAUTION: Use of water spray when fighting fire may be ineffective.

Specific Hazards Arising from the Chemical: Closed containers may explode from internal pressure build-up when exposed to extreme heat and discharge contents. Liquid content of container will support combustion. Overexposure to decomposition products may cause a health hazard. Symptoms may not be readily apparent. Obtain medical attention.

Hazardous Combustion Products: Combustion products may include the following: Carbon dioxide (CO2) Carbon monoxide (CO) and other toxic fumes..

Protection of Fire Fighters: Water may be used to cool container to prevent pressure build-up and explosion to extreme heat. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid breathing vapors. Ventilate area.

For emergency responders: Response and clean-up crews must be properly trained and must use proper protective equipment (see Section). Consider wind direction; stay upwind. See also the information in "For non-emergency personnel". If water is used, fog nozzles are preferred.

Methods and materials for containment and cleaning up

Small Spills: Avoid breathing vapors. Ventilate area. Remove sources of ignition. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large Spills: Avoid breathing vapors. Ventilate area. Remove sources of ignition. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non- combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and Storage

Precautions for safe handling

Protective measures: Do not puncture or incinerate (burn) cans. Do not stick pins, nails, or any other sharp object into opening on top of can. Keep away form heat, sparks, and open flame! Eye protection and face shield should be used if material is used under conditions that increase the chances of splattering. Put on appropriate personal protective equipment (see Section 8). Keep out of reach of children.

Advice on general occupational hygiene: Do not get in eyes, on skin or on clothing. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. See product label for additional information. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, Including any incompatibilities: Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials, and strong oxidizing agents (see Section 10). Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity).Do not store above 120°F.

Section 8. Exposure Controls/Personal Protection

Control parameters

Occupational Exposure Limits

Chemical name	ACGIH		OSHA		NIOSH	
	TLV TWA	STEL	PEL	STEL	TLV TWA	STEL
ACETONE 67-64-1	500 ppm	750 ppm	750 ppm	1000 ppm	No data	No data
HEPTANE 142-82-5	400 ppm	250 ppm	500 ppm	440 ppm	No data	No data
PROPANE 74-98-6	No data	No data	1000 ppm	No data	No data	No data

Appropriate engineering controls: Ventilation should be sufficient to prevent inhalation of any vapors. General dilution and/or local exhaust ventilation should be used to keep vapor concentration of this product below occupational exposure and flammable limits, particularly in confined spaces.

Individual protection measures

Hygiene measures: Keep away form foodstuffs, beverages and food. Wash hands, forearms and face thoroughly after handling product before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.. Avoid contact with the eyes and skin. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/Face Protection: None under normal use. Use of safety glasses with side shields and/or face shield or chemical goggles should be used if indicated.

Skin and Body Protection

Hand protection: None under normal use. Wear solvent resistant protective gloves if prolonged or repeated contact is likely.

Body protection: None required for normal product use. However, use of solvent-resitant aprons or other clothing is recommended. Eyewash stations and safety showers are recommended in the workplace.

Respiratory protection: None normally required if used outdoors or in a well ventilated area. Avoid breathing vapors. If respiratory protection is required, use a NIOSH/MSHA approved air-purifying respirator designed to remove a combination or particles and organic vapors. In confined spaces, use an air-line supplied respirator or

hood or self contained breathing apparatus.

Use a positive pressure, air-supplied respirator if there is a potential for uncontrolled release, exposure levels are not known, in oxygen-deficient atmospheres, or any other circumstances where an air-purifying respirator may not provide adequate protection.

Section 9. Physical and Chemical Properties

Appearance	**(Typical or Target)**
Physical State:	Pressurized liquid
Color:	Clear
Odor:	Solvent
Odor threshold:	Not available
pH:	Not applicable
Boiling Point:	<56°C (132.8°F)
Flash Point (Closed cup):	Not determined
Pour Point:	Not determined
Evaporation rate (Butyl acetate = 1):	Slower than ether
Flammability (solid, gas):	Not applicable. Based on - Physical state
Flammable) Limit in Air	
Lower Flammability Limit (LEL):	Not determined
Upper Flammability Limity (FEL):	Not determined
Vapor pressure at 50 °C:	Not determined
Vapor density (Air = 1):	>1
Relative density at 20 °C:	0.7617 g/cm3 (Typical or Target)
Solubility:	Not miscible or difficult to mix
Partition coefficient (n-Octanol/water):	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity – Kinematic (cSt (mm2/s)@ 40°C):	Not determined
Viscosity – Kinematic (cSt (mm2/s) @ 100°C):	Not determined
VOC %:	100%

Section 10. Stability and Reactivity

Reactivity:	Not reactive under normal storage conditions
Chemical stability:	Stable under normal storage conditions
Possibility of hazardous reactions:	None under normal processing.
Hazardous polymerization:	Hazardous polymerization does not occur.
Conditions to avoid:	Heat, flames and sparks.
Incompatible materials:	Acids, bases, strong oxidizing agents.
Hazardous decomposition products:	May include: Fumes, Smoke, Carbon Oxides (including carbon monoxide and carbon dioxide) and incomplete combustion products.

Section 11. Toxicological Information

Information on toxicological effects

Basis for Assessment: Information given is based on product data, a knowledge of the components and the toxicity of similar products.

Likely Routes of Exposure: Exposure may occur via inhalation, ingestion, skin absorption

Substance/Mixture

Acute Toxicity	Oral LD50	Dermal LD50	Inhalation LC50
ACETONE 67-64-1	5800 mg/Kg (rat)	3000 mg/Kg (rabbit)	124.7 mg/L (rat) 4h
HEPTANE	5000 mg/Kg (rat)	No data	103 mg/L (rat) 4h

PROPANE 74-98-6	No data	No data	658 mg/L (rat) 4h

Aspiration hazard: Aspiration hazard – Category 1.

Skin Corrosion/Irritation: Irritating to skin and mucus membranes – Category 2.

Serious Eye Damage/Irritation:

Respiratory Irritation: Irritant. Based on human experience, breathing of vapors or mists may cause a temporary burning sensation to nose, throat and lungs.

Skin Sensitization: No sensitizing effect known.

Respiratory Sensitization: No sensitizing effect known.

Specific Target Organ Toxicity (Single Exposure) - STOT-SE: High concentrations may cause central nervous system (CNS) depression resulting in headaches, dizziness and nausea: continued inhalation may result in unconsciousness and/or death.

Specific Target Organ Toxicity (Repeated Exposure) – STOT-RE: No further relevant information available.

Carcinogenicity: No further relevant information available.

Germ Cell Mutagenicity: No further relevant information available..

Reproductive Toxicity No further relevant information available..

Section 12. Ecological Information

The information is based on data available for the material, the components of the material, and similar materials.

Ecotoxicity: Toxic to fish.

Mobility: No further relevant information available.

Soil/water partition coefficient (K_{OC}): No further relevant information available..

Persistence and degradation
Biodegradation: Not available.

Bioaccumulative potential
Bioaccumulation: No further relevant information available.

Other adverse effects: No further relevant information available.

Other ecological information: No long-term ecological studies have been conducted for this product.

Section 13. Disposal Considerations

Disposal recommendations based on material supplied.

Waste treatment methods: If this material becomes a waste, it would be expected to meet the criteria of a RCRA ignitable hazardous waste D001. It is the responsibility of the generator to determine at the time of disposal the proper classification and method of disposal. Consult the appropriate state, regional, or local regulations for additional requirements. The generation of waste should be avoided or minimized wherever possible.

Contaminated packaging: Empty containers or liners may retain some product residues and could pose a potential fire and explosion hazard. Do not cut, puncture, or weld containers.

Other information: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport Information

General information: Gasoline mixture.

By Land	DOT Proper Shipping Name: None required per 49 CFR 173.306(i) for products that conform to the Limited Quantity provisions. Consumer Commodity shipping description: Cleaning Compound, NOI
By Water	DOT & IMDG Proper Shipping Name: UN1950, Aerosols, 2.1, LTD QTY
By Air	DOT & IATA Proper Shipping Name: UN 1950, Aerosols, Flammable, 2.12, LTD QTY (packing instruction Y203 applies)

Section 15. Regulatory Information

United States Regulations

United States Inventory (TSCA 8b): All components are listed or exempted.

SARA 302/304: No products were found.

SARA 311/312:

Immediate (Acute) Health Effects:	Yes
Delayed (Chronic) Health Effects:	Yes
Fire Hazard:	Yes
Sudden Release of Pressure Hazard:	No
Reactivity Hazard:	No

SARA 313:
The following components of this material are found on the EPCRA 313 list:
None

Supplier notification: This product does not contain any hazardous ingredients at or above regulated thresholds.

CERCLA: This material, as supplied, does not contain any substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

State Regulations

Massachusetts: Acetone, Propane,
New Jersey: Acetone, Heptane, Propane
Pennsylvania: Acetone, Heptane, Propane
California Proposition 65: WARNING: This product does not contain a chemical known to the State of California to cause cancer or be a reproductive toxin.

International Chemical Inventories:
All components comply with the following chemical inventory requirements: DSL (Canada)

Section 16. Other Information

NFPA Rating:	**Health Hazard – 1**	**Flammability – 4**	**Instability/Reactivity – 0**
HMIS Rating:	**Health Hazard – 1***	**Flammability – 4**	**Physical Hazards – 0**

(NFPA & HMIS Hazard Rating Key: 0 - Minimum Hazard; 1 - Slight Hazard; 2 - Moderate Hazard; 3 - High Hazard; 4 - Extreme Hazard; ***** - Chronic Hazard Indicator, & PPE - Personal Protective Equipment Index A to L. These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS or Hazardous Material Identification System).

Key to abbreviations:

OSHA = Occupational Safety and Health Administration
ACGIH= American Conference of Industrial Hygienists
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
LogPow = logarithm of the octanol/water partition coefficient
OEL = Occupational Exposure Limit
SDS = Safety Data Sheet
STEL = Short term exposure Limit

CAS = Chemical Abstracts Service Registry Number
cSt = Centistroke (mm2/s)
GHS = Global Harmonized System of Classification and Labeling Of Chemicals.
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
STOT-SE = Specific Target Organic Toxicity – Single Exposure
STOT-SE = Specific Target Organic Toxicity – Repeated Exposure
UN = United Nations
UN Number = United Nations Number, a four digit number assigned by the United Nations Committee of Experts on the Transportation of Dangerous Goods

Prepared By: **OMNI Specialty Packaging EH&S Department**

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Status: **Final**

Revision Note: **All Sections. First version in OSHA GHS SDS format.**

Consumer Product Improvement Act of 2008, General Conformity Certification

For Consumer Product Packages: This product has been evaluated and is certified to be labeled and packaged in compliance with the applicable provisions of the Federal Hazardous Substance Act as stated in 16 CFR 1500 and enforced by the Consumer Product Safety Commission. Where applicable the products that require Child Resistant Closures are packaged in accordance with the Poison Prevention Packaging Act as stated in 16 CFR 1700 and enforced by the Consumer Product Safety Commission. All closures have been tested in accordance with the latest protocols. No testing is required to certify compliance with the provisions. The date of the manufacturing is stamped on the product container.

Disclaimer

All reasonably practicable steps have been taken to ensure the information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. This information is furnished upon condition that the person receiving it shall make their own determination of the suitability of the material for their particular purpose.

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End of Safety Data Sheet