

SAFETY DATA SHEET

***** SECTION I – IDENTIFICATION *****

MANUFACTURER NAME

Mullen Circle Brand, Inc.
3514 West Touhy Avenue
Skokie, Illinois 60076

PHONE NUMBER

847/676-1880

EMERGENCY CONTACT

800/535-5053

PRODUCT NAME

Mineral Spirits

RECOMMENDED USE

Hydrocarbon Solvent

E-Mail

SDS@MullenOil.com

RESTRICTIONS ON USE

It is against federal law to use this product inconsistent with its labeling

***** SECTION II – HAZARD(S) IDENTIFICATION *****

OSHA Defined Hazards

Combustible Liquid
Irritant

GHS HAZARD CLASS**Physical Hazards**

Flammable liquids – Category 3

Health Hazards

Acute Toxicity – Category 4 (Inhalation)
Skin irritation – Category 2
Serious eye damage/eye irritation – Category 2b
STOT, single exposure [Narcotic effects] – Category 3
Aspiration hazard – Category 1

Environmental Hazards Not classified

GHS Symbol/Pictogram**Signal Word**

Danger

Hazard Statements

Flammable liquid & vapor
Harmful if inhaled or swallowed
Causes eye & skin irritation
May be fatal if swallowed and enters airways
May cause drowsiness and dizziness

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***** SECTION II – HAZARD(S) IDENTIFICATION (Continued) *****

Precautionary Statements

Prevention	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Do not eat, drink or smoke when using this product Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment Use only non-sparking tools Take precautionary measures against static discharge Avoid breathing dust, fumes, gas, mist, vapors, spray Wash thoroughly after handling Use only outdoors or in a well ventilated area Wear protective gloves, protective clothing, eye protection, face protection
Response	IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician Do not induce vomiting IF ON SKIN: Wash with plenty of water IF ON SKIN (or hair): Remove all contaminated clothing. Rinse skin with water If skin irritation occurs, get medical advice/attention 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 INHALED: Remove person to fresh air and keep comfortable for breathing Call a POISON CENTER/doctor/physician if you feel unwell Specific treatment (see first aid section) In case of fire: Use foam, CO ₂ , dry chemical
Storage	Store in a well ventilated place. Keep container closed when not in use Keep cool Store locked up
Disposal	Dispose of contents/container in accordance with local/state/federal regulations Avoid release to the environment

***** SECTION III – COMPOSITION/INFORMATION ON INGREDIENTS *****

Substance _____ **Mixture**

Chemical Name	CAS#	%
Aliphatic Hydrocarbon	64742-47-8	75-100%

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***** **SECTION IV – FIRST AID MEASURES** *****

Description Of Necessary First Aid Measures

Eye Contact

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 15 minutes. Get medical attention.

Skin Contact

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected gas or vapor is still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth to mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Ingestion

Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

***** **SECTION V – FIREFIGHTING MEASURES** *****

Extinguishing Media

Suitable

Foam, CO2, dry chemicals, water fog or mist.

Unsuitable

Do not use water jet.

Specific Hazards

Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

Hazardous Decomposition Products

Oxides of carbon, sulfur.

Special Precautions – Fire Fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Move containers from fire area if it can be done without risk. No action shall be taken involving any personal risk or without suitable training.

Special Protective Equipment – Fire Fighters

Wear positive pressure self-contained breathing apparatus (SCBA) and full protective clothing.

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***** SECTION VI – ACCIDENTAL RELEASE MEASURES *****

Personal Precautions, Protective Equipment And Emergency Procedures

For Non-Emergency Personnel

Take no action involving personal risk without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. Floors may be slippery, use care to avoid falling.

For Emergency Responders

If specialized clothing is required to deal with the spillage, take note of any information in Section VIII on suitable and unsuitable materials. See also the information in “For Non-Emergency Personnel”.

Environmental Precautions

Avoid dispersal of spilled products and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product causes environmental pollution.

Methods And Materials For Containment And Cleaning Up

Small Spill

Stop leak if without risk. Eliminate ignition sources. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large Spill

Stop leak if without risk. Eliminate ignition sources. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with noncombustible, absorbent material and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor.

***** SECTION VII – HANDLING & STORAGE *****

Precautions For Safe Handling

Protective Measures

Put on appropriate personal protective equipment (See Section VIII). Do not swallow. Avoid contact with eyes, skin, clothing. Avoid breathing vapor and mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container. Always bond receiving containers to the fill pipe before and during loading. Always confirm receiving container is properly grounded.

Advice On General Occupational Hygiene

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 also Section VIII for additional information on hygiene measures.

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******* SECTION VII – HANDLING & STORAGE (Continued) *******

Conditions For Safe Storage

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well ventilated area, away from incompatible materials (see Section X) and food and drink. Keep away from heat, sparks and open flame. Keep container tightly closed and sealed until ready for use. Store and use only in equipment/containers designed for use with this product. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

******* SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION *******

Exposure Limits

Ingredient Name	Exposure Limits
Aliphatic Hydrocarbon	ACGIH TLV-TWA 400 ppm

Environmental Exposure Controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, vapor controls, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Appropriate Engineering Controls

Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits.

Hygiene Measures

Wash hands, forearms and face thoroughly after handling chemical products and before eating, smoking or using the lavatory as well as at the end of the work period. Wash contaminated clothing before reusing.

Respiratory Protection

A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be necessary under certain circumstances where airborne concentrations are expected to exceed exposure limits.

Eye Protection

Safety glasses equipped with side shields in conjunction with a face shield are recommended in industrial settings.

Skin Protection

Wear impervious protective gloves. Wear protective gear as needed - apron, suit, boots. Where contact is likely, wear chemical resistant gloves, a chemical suit, rubber boots, and chemical safety goggles plus a face shield.

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***** SECTION IX – PHYSICAL & CHEMICAL PROPERTIES *****

Appearance	
Physical State	Liquid
Color	Colorless
Odor	Mild hydrocarbon
Odor Threshold	Not available
Ph	None
Melting Point	Not available
Freezing Point	Not available
(Pour Point)	
Initial Boiling Point	316 F
Boiling Range	316-381 F
Drop Point	Not applicable
Flash Point	108 F
Evaporation Rate	<1 (butyl acetate = 1)
Explosive Limits	
Upper	5.5%
Lower	0.6%
Vapor Pressure	.03-.06 kPa
Vapor Density	4.5 (air=1)
Specific Gravity	0.78
Density	6.5 Pounds/gallon
Solubility	Insoluble in water
Auto Ignition Temperature	456 F
Decomposition Temperature	Not available
Viscosity	38 SUS @ 100 F
Partition coefficient	Not available
(n-octanol/water)	
Volatile Organic Compounds	100%, wt%

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******* SECTION X – STABILITY & REACTIVITY**

Reactivity

Not expected to be Explosive, Self-Reactive, Self-Heating, or an Organic Peroxide under US GHS definitions

Chemical Stability

This product is stable under normal conditions.

Possibility Of Hazardous Reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions To Avoid

Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.

Incompatible Materials

Reactive or incompatible with the following materials: Oxidizing materials.

Hazardous Decomposition Products

Oxides of carbon and sulfur.

******* SECTION XI – TOXICOLOGICAL INFORMATION *******

Primary Routes Of Exposure: Eye contact, Ingestion, Inhalation, Skin contact

Acute Toxicity Values: Acutely Toxic – Category 4 (Inhalation)

Information On Toxicological Effects - Effects Of Overexposure

Inhalation	Vapors can cause irritation of the respiratory tract. High concentrations can cause headache, nausea, weakness, lightheadedness, and stupor (CNS depression). Causes delayed lung injury.
Skin Contact	Causes skin irritation. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash). Personnel with pre-existing skin disorders should avoid contact with this product.
Eye Contact	Contact with the eye causes mild irritation. May cause tearing, redness and discomfort.
Ingestion	This material may be harmful or fatal if swallowed or if liquid is aspirated into lungs. Ingestion may cause gastrointestinal tract irritation. Can be readily absorbed by the stomach and intestinal tract. Symptoms include burning sensation of the mouth and esophagus, nausea, vomiting, diarrhea, dizziness, staggering gait, drowsiness, loss of consciousness and delirium as well as other central nervous system effects.
Chronic Hazards	Possible brain damage from overexposure. Overexposure may cause nervous system damage.

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***** SECTION XI – TOXICOLOGICAL INFORMATION (continued)*****

Sensitization	
Respiratory	Not classified
Skin Sensitization	Not classified
Germ Cell Mutagenicity	Non-mutagenic based on Modified Ames Assay
Carcinogenicity	Meets EU requirement of less than 3% (w/w) DMSO extract for total polycyclic aromatic compound (PAC) using IP 346. This product is not listed as a carcinogen by IARC, OSHA, NTP.
Fertility Effects	Contains no ingredient listed as toxic to reproduction.
Specific Target Organ Toxicity	
Single Exposure	Category 3; Narcotic effects; Inhalation
Repeated Exposure	Not classified
Aspiration Hazard	Aspiration hazard – Category 1

***** SECTION XII – ECOLOGICAL INFORMATION *****

Ecotoxicity

Not available

Persistence & Degradability

Not available

Bioaccumulative Potential

Not available

Mobility In Soil

Not available

Other Adverse Effects

No known significant effects or critical hazards.

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***** SECTION XIII – DISPOSAL CONSIDERATIONS *****

Disposal Methods

Waste generation should be avoided or minimized wherever possible. Dispose of in accordance with federal, state, and local regulations. After the container has been emptied, it may contain hazardous residues. Avoid sparks and open flame. Do not cut, puncture, or weld on or near the container. Do not reuse the container for any purpose until properly reconditioned.

RCRA Classification

Hazardous waste

***** SECTION XIV – TRANSPORT INFORMATION *****

DOT

UN#	UN1268 *
Description	Petroleum Distillates, nos , 3 (Combustible Liquid), PG III
Transport Hazard class	Combustible Liquid
Packing Group	III

* DOT Regulated Only In Bulk Quantities

***** SECTION XV – REGULATORY INFORMATION *****

TSCA Section 12(b) Export notification (40 CFR 707 Subpart D): None

CERCLA Hazardous Substance List (40 CFR 302.4): Not listed

US OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): Not listed

SARA Section 302 – Threshold Planning Quantity : None

SARA Title III – Section 311/312

Immediate/Acute Health Effects	: Yes
Fire Hazard	: Yes
Delayed/Chronic Health Effects	: No
Reactivity Hazard	: No
Sudden Release Of Pressure Hazard	: No

Chemical Release Reporting:

SARA Section 313	: Not listed
CERCLA	: Not listed

TSCA Inventory : All product ingredients are listed on the chemical inventory.

Clean Air Act

Ozone Depleting Compounds	: No
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******* SECTION XVI – OTHER INFORMATION *******

The above mentioned information is believed to be correct as of the date hereof. However, no warranty of merchantability, fitness for any use, or any other warranty is expressed or is to be implied regarding the accuracy of these data, the results to be obtained from the use of the material, or the hazards connected with such use. Since the information contained herein 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 modification of the information, we do not assume responsibility for the results of its use. This information is furnished on the condition the person receiving it shall make his own determination as to the suitability of the material for his particular use and on the condition he assume the risk of his use thereof.

HMIS HAZARD CLASS:

Health	1 (Slight)
Fire	2 (Moderate)
Reactivity	0 (Least)
Personal Protection	B

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