






G.K. Chemical Specialties Co. Inc.  
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## SAFETY DATA SHEET (SDS)

<b>PRODUCT NAME:</b> MS PETROLEUM DISTILLATE	
<b>HEALTH HAZARD RATING:</b>	(1)- SLIGHT HAZARD
<b>FLAMMABILITY HAZARD RATING:</b>	(2) - RISQUE MODÉRÉ
<b>REACTIVITY HAZARD RATING:</b>	(0)- MINIMAL HAZARD
<b>PERSONAL PROTECTION:</b>	H - (Splash goggles, Gloves, Synthetic apron, Vapor respirator)
<b>HAZARD ALERT SIGN:</b>	<div>GHS02</div> <div>GHS08</div> <div>GHS07</div>

<b>SECTION 1 – IDENTIFICATION</b>	
<b>PRODUCT IDENTIFIER</b>	
<b>PRODUCT NAME</b>	MS PETROLEUM DISTILLATE
<b>MANUFACTURER'S NAME AND ADDRESS</b> <b>EMERGENCY PHONE NO.</b>	G.K. Chemical Specialties Co. Inc. 90 Barbados Blvd. Scarborough, Ontario M1J 1K9 (416) 261-7182 / 905 427-7605/ 416-526-4037
<b>SUPPLIER'S NAME AND ADDRESS</b> <b>EMERGENCY PHONE NO.</b>	
<b>CHEMICAL NAME</b>	STODDARD SOLVENT
<b>CHEMICAL FAMILY</b>	PETROLEUM DISTILLATE
<b>TRADE NAME AND SYNONYMS</b>	MINERAL SPIRITS, HIGH FLASH NAPHTHA
<b>MATERIAL USE</b>	INDUSTRIAL SOLVENT

G.K. Chemical Specialties Co. Inc. has compiled the information and recommendations contained in this Safety Data Sheet from sources believed to be reliable and to represent the most reasonable current opinion on the subject when the SDS was prepared. Although reasonable precautions have been taken in the preparation of the data contained herein, it is offered solely for your information, consideration and investigation.

G.K. Chemical Specialties Co. Inc. extends no warranty and assumes no responsibility as to the accuracy of the content or sufficiency of the information and expressly disclaims all liability for reliance thereon. This SDS provides guidelines for the safe handling of this product. It does not and cannot advise on all possible situations, therefore, your specific use of this product should be evaluated to determine if additional precautions are required. Individuals exposed to this product should read and understand this information and be provided pertinent training prior to working with this product.

G.K. Chemical Specialties Co. Inc. assumes no responsibility for personal injury or property damage to vendors, users or third parties caused by the material. Such vendors or users assume all risks associated with the use of the material.

INGREDIENTS. This SDS, under section of Ingredients, contains all ingredients listed under INGREDIENT DISCLOSURE LIST P.C. 1987-2719, 20/1/88 CANADA GAZETTE PART II VOL. 122, No 2 of HAZARDOUS PRODUCT ACT.

Percentage range of concentration of ingredients is expressed as percentage by weight of the total weight of the product. Ingredient List does not necessarily list all ingredients in the formulation and does not necessarily list all ingredient range of concentration, other than ingredients under the Disclosure List.

T.L.V. (units) or Threshold Limit Values refer to the limiting concentrations recommended by the Ministry of Labour. These values were adopted by the American Conference of Governmental Industrial Hygienists (A.C.G.I.H.). The figures refer to time-weighted average concentrations as P.P.M. (V/V) or mg/m<sup>3</sup> for a normal working day or at any time for some materials.

"C.A.S REG. No." means the identification number assigned to a chemical substance by the Chemical Abstracts Service Division of the American Chemical Society.

"LC 50" means the concentration of a substance in air that when administered by means of inhalation over a specified length of time in an animal assay, is expected to cause the death of 50 per cent of a defined animal population.

"LD 50" means the single dose of a substance that, when administered by a defined route in an animal assay, is expected to cause death of 50 per cent of a defined animal population.

FLASH POINT. The minimum temperature at which a substance gives off flammable vapors which in contact with spark or flame will ignite.

NIOSH- National institute for occupational safety and health

STEL- Short term exposure limit

TWA- Time-weighted average

PEL- Permissible exposure limit

ACGIH- American conference of governmental industrial hygienist

OSHA- Occupational safety and health act

## SECTION 2 – HAZARD IDENTIFICATION

Dangerous Goods- WHMIS: CLASS B, Div. 3

**OSHA HAZARDS:** Flammable liquid, Target Organ Effect, Irritant.

**Target Organs:** Nerves, Kidney, Cardiovascular system, Gastrointestinal tract, Liver.

**Signal Words:** Danger.

### GHS CLASSIFICATION

Flammable liquids- Category 3

Acute toxicity – Inhalation (vapors)- Category 4

Acute toxicity-Oral – Category 4

Skin corrosion / irritation- Category 2

Serious eye damage/ eye irritation - Category 2b

Specific target organ toxicity, single exposure - Category 3

Aspiration hazard – Category 1

GHS Label Elements, including precautionary statements: Hazard Statements:

### HAZARD STATEMENTS

H226- Flammable liquid and vapor

H304- May be fatal if swallowed and enters airways

H316- Causes mild skin irritation

H319- Causes serious eye irritation

H335- May cause respiratory irritation

H336- May cause drowsiness or dizziness

H302-Harmful if swallowed

H373- May cause damage to organs through prolonged or repeated exposure

### PREVENTION (see also section 4 –First aid and measures)

P210- Keep away from heat/sparks/open flames/hot surfaces

P261- Avoid breathing dust/fumes/gas/mist/vapors/spray

P280- Wear protective gloves / protective clothing / eye protection / face protection

P271- Use only outdoors or in a well-ventilated area

P264- Wash skin thoroughly after handling

P242- Use only non-sparking tools.

P243- Take precautionary measures against static discharge

P405- Store locked up

P233- Keep container tightly closed.

P202- Do not handle until all safety precautions have been read and understood.

### RESPONSE

P305+P351+P338- IF IN EYES: Rinse cautiously with water for several minutes: Remove contact lenses if present and easy to do so. Continue rinsing.

P337 + P313: If eye irritation persists: Get medical advice/attention

P301 + P330 + P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

P301 + P310; IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician

P303 + P361 + P353: IF ON SKIN (or hair): Remove/ take off immediately all contaminated clothing. Rinse skin with water/shower

P370 + 378: In case of fire, use dry chemical to extinguish



	<b>POTENTIAL HEALTH EFFECTS</b> <b>EYES:</b> Causes serious eye irritation <b>INHALATION:</b> May be harmful if inhaled. Causes respiratory tract irritation. Vapors may cause drowsiness and dizziness. Can cause irritation of mucous membranes and central nervous system depression. Aspiration into lungs may cause pneumonia or death <b>SKIN:</b> May be harmful if absorbed through skin. Causes skin irritation <b>INGESTION:</b> May be harmful if swallowed
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<b>SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS</b>				
<b>HAZARDOUS INGREDIENTS</b>	<b>APPROXIMATE CONCENTRATION %</b>	<b>C.A.S., N.A. OR U.N. NUMBERS</b>	<b>LD50 {SPECIFY SPECIES &amp; ROUTE}</b>	<b>LC 50 {SPECIFY SPECIES &amp; ROUTE}</b>
Stoddard solvent (mineral spirits)	100	8052-41-3	Oral (Rat): >5,000 mg/kg Dermal (Rabbit): >3,000mg/kg	Inhalation: Rat >5.5 mg/L/4h

<b>SECTION 4 – FIRST AID MEASURES</b>	
<b>SKIN CONTACT</b>	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and wash using soap. Get medical attention if necessary.
<b>EYE CONTACT</b>	Immediately hold eyelids open and flush with water for at least 15 minutes. Seek medical attention.
<b>INHALATION</b>	For excessive inhalation remove casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention if necessary
<b>INGESTION</b>	May be harmful if swallowed. Do not induce vomiting. Seek immediate medical attention. Never give anything by mouth to an unconscious or convulsing person. If vomiting occur spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Danger of aspiration of vomit into the lungs can cause serious damage and chemical pneumonitis. Take a copy of the label and / or SDS with the victim to the health professional.
<b>NOTES TO PHYSICIAN</b>	Treatment based on sound judgment of physician and individual reaction of patient. <b>Eye contact:</b> Causes serious eye irritation. Symptoms may include stinging and tearing <b>Inhalation:</b> Harmful if inhaled in excessive amounts. Can cause central nervous system depression. May cause drowsiness, dizziness, headache, nausea, breathing difficulties and other symptoms of central nervous system depression. <b>Skin contact:</b> May cause skin irritation. (Redness, Swelling, Itching and Dryness) <b>Ingestion:</b> Can cause central nervous system depression. May be fatal if swallowed and enters airways. Irritating to mouth, throat and stomach. Can cause nausea, vomiting and diarrhea. <b>ASPIRATION HAZARD:</b> Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.

<b>SECTION 5 – FIRE-FIGHTING MEASURES</b>	
<b>FLASH POINT ( °C)</b>	43°C (109.4°F)
<b>FLASH POINT METHOD</b>	Closed Cup or Tag
<b>AUTOIGNITION TEMPERATURE ( °C )</b>	229°C (444.2°F)
<b>UPPER FLAMMABLE LIMIT ( % VOL.)</b>	13.3 %
<b>LOWER FLAMMABLE LIMIT ( % VOL. )</b>	1.0 %

<b>HAZARDOUS COMBUSTION PRODUCTS</b>	Carbon Dioxide ( CO <sub>2</sub> ), Carbon monoxide.
<b>UNUSUAL FIRE/ EXPLOSION HAZARDS</b>	Flammable liquid and vapors (Category 3). Explosive in presence of open flames, sparks, or heat. Containers can rupture and explode under fire conditions due to pressure and vapor buildup. Heated vapors may form explosive mixture with air. Vapors may travel across the ground and reach an ignition source.
<b>SENSITIVITY TO MECHANICAL IMPACT</b>	yes
<b>SENSITIVITY TO STATIC DISCHARGE</b>	yes
<b>EXTINGUISHING MEDIA</b>	Water fog, Alcohol-resistant foam, dry powder or Carbon Dioxide. Use media appropriate for surrounding fire. Do not use a solid water stream as it may scatter and spread fire.
<b>SPECIAL FIRE FIGHTING PROCEDURES</b>	Fire fighters should wear full protective clothing, including self-contained breathing equipment. Vapor may travel considerable distance to source of ignition and flash back. Cool exposed containers with water spray.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

<b>LEAK AND SPILL PROCEDURE</b>	<p>Stop leak and ventilate the area. Avoid breathing mist or vapours. Eliminate source of ignition. Use only non-sparking tools and equipment in the clean-up process. Move containers from spill area if safe to do so. Absorb spill with vermiculite or other noncombustible absorbent material. Place in a suitable container (with lid tightly covered) for disposal. Solvent soaked materials may spontaneously combust.</p> <p>For large spills, dike spill, recover free liquid, collect with an electrically protected vacuum cleaner or by wet-brushing. Use absorbent material to dry area. Put all material into appropriate waste containers. Rinse with water. Avoid contaminating ground water.</p>
<b>ENVIRONMENTAL PRECAUTIONARY</b>	Prevent entry into sewers or streams. Any release to the environment may be subject to federal or local reporting requirements.
<b>PERSONAL PRECAUTIONARY MEASURES</b>	Wear protective clothing during cleanup. See section 8 for recommendations on the use of personal protective equipment. Avoid breathing vapors, mist or gas. Restrict access to area until completion of clean-up.

## SECTION 7 – HANDLING AND STORAGE

<b>HANDLING PROCETURES</b>	<p>Avoid contact with eyes. Avoid ingestion. Do not breathe vapors. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Wear personal protective equipment appropriate to task. Use good industrial hygiene practices in handling this product. Keep container closed when not in use. Take measure to prevent the buildup of electrostatic charge. Use only non-sparking tools. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Eating, drinking and smoking should be prohibited in areas where this product is handled, stored and processed. Workers should wash hands and face before eating. Launder contaminated clothing prior to reuse.</p> <p>Do not cut, grind, weld or drill on or near containers.</p> <p><b>CAUTION: Cloth or paper soaked in this product may undergo spontaneous ignition. Never discard wiping cloths soaked in this product carelessly. Do not put wet cloth or paper in a garbage bag or garbage container. Dry carefully before discarding.</b></p>
<b>STORAGE NEEDS</b>	Keep container tightly closed. Store in a cool area. Keep in the original container or an approved alternative. Store and use away from heat, sparks, open flame or any other ignition source. Store containers carefully and prevent leakage. Store separate from oxidizing materials.

<b>SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION</b>	
<b>VENTILATION REQUIREMENTS</b>	<p>For outdoors use no critical hazards. For indoor use good ventilation is recommended. Use only with adequate ventilation to prevent build-up of vapors. Open all windows and doors. Use only with a cross ventilation of moving fresh air across the work area. If strong odor is noticed or you experience slight dizziness, headache, nausea, or eye-watering- STOP- ventilation is inadequate. Leave area immediately. When the following figures listed are exceeded provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective.</p> <p><b>Occupational exposure limits For Stoddard solvent (8052-41-3):</b>  ACGIH TLV (United states, 1/2008)  TWA: 100 ppm 8 hours (525 mg/m<sup>3</sup>)  OSHA PEL 1989 (United States, 3/1989)  TWA: 100 ppm 8 hours (525 mg/m<sup>3</sup>)  NIOSH REL (United States, 6/2008)  TWA: 350 mg/m<sup>3</sup> 10 hours, CEIL: 1800 mg/m<sup>3</sup> 15 minutes  OSHA PEL (United States, 11/2006)  TWA: 500 ppm 8 hours (2900 mg/m<sup>3</sup> 8 hours</p>
<b>PROTECTIVE EQUIPMENT</b>	Ensure that eyewash stations are proximal to the work-station location. The selection of personal protective equipment will vary depending on the condition of use
<b>EYE/TYPE</b>	Splash goggles, safety glasses or face shields are recommended to safeguard against potential eye contact, irritation, or injury.
<b>RESPIRATORY/TYPE</b>	Approved/ certified vapor respirator. Any chemical cartridge respirator with organic vapor cartridges is recommended.
<b>GLOVE/TYPE</b>	Nitrile, Butyl impervious gloves
<b>FOOTWEAR/TYPE</b>	Boots
<b>BODY/TYPE</b>	Protective clothing is required. Use impervious clothing (apron, coveralls). The selection of personal protective equipment will vary depending on the conditions of use.

<b>SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES</b>	
<b>APPEARANCE – PHYSICAL STATE</b>	Clear liquid
<b>ODOUR</b>	Mild Petroleum
<b>ODOUR THRESHOLD (PPM)</b>	Not available
<b>PH</b>	Not applicable
<b>MELTING POINT ( °C)</b>	See freezing point
<b>BOILING POINT ( °C )</b>	159°C (318.2° F) INITIAL
<b>FREEZING POINT ( °C )</b>	-76°C (--105° F)
<b>EVAPORATION RATE</b>	0.14 (n-Butyl Acetate=1)
<b>FLAMMABILITY</b>	Flammable
<b>FLASH POINT ( °C)</b>	43°C (109°F)
<b>AUTO IGNITION TEMPERATURE</b>	229°C (444.2°F)
<b>DECOMPOSITION TEMPERATURE</b>	Not available
<b>VAPOUR DENSITY</b>	(air= 1) 4.9 at 101 kPa
<b>VAPOUR PRESSURE</b>	@ 20°C) 2.2 mmHg
<b>SOLUBILITY</b>	Not soluble in water
<b>VISCOSITY</b>	Thin liquid
<b>% VOLATILE BY VOLUME</b>	100 %
<b>SPECIFIC GRAVITY</b>	0.79 ± 0.02 gm / cm <sup>3</sup>

SECTION 10 – STABILITY AND REACTIVITY	
REACTIVITY	Not self-reactive, self-heating
CHEMICAL STABILITY	Stable
POSSIBILITY OF HAZARDOUS REACTIONS	Under normal conditions of storage and use, hazardous reaction will not occur.
CONDITIONS TO AVOID	Keep away from heat, flame and sparks. Avoid incompatible materials. Do not allow vapors to accumulate in low or confined areas.
INCOMPATIBLE MATERIALS	Strong oxidizing agents. May attack some plastic materials
HAZARDOUS DECOMPOSITION PRODUCTS	Carbon Dioxide (CO <sub>2</sub> ), Carbon monoxide.

SECTION 11 –TOXICOLOGICAL INFORMATION	
TOXICITY EFFECTS ON ANIMALS	<b>For Stoddard solvent (Mineral Spirits)(8052-41-3):</b> Acute Oral Toxicity LD50 (Rat): >5,000 mg/kg. Acute Dermal Toxicity LD50 (Rabbit): >3,000 mg/kg
TOXIC EFFECTS ON HUMANS	Hazardous in case of ingestion or inhalation. Slightly hazardous in case of skin contact. <b>Skin</b> contact can cause redness, irritation and drying. Severity depends on the amount and duration of exposure. <b>Eyes:</b> Vapors may be irritating to the eyes. Liquid contact will cause stinging redness, swelling and tearing. <b>Inhalation:</b> Excessive inhalation of high concentrations may be harmful. Mist or vapor can irritate the throat and lungs. Breathing excessive amount of this product may cause central nervous system depression, intoxication, may cause drowsiness, headaches, dizziness. <b>Ingestion:</b> If swallowed this material may irritate the mucous membranes of the mouth throat and esophagus. May cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration of this material into the lungs may result in damage or death.
CHRONIC EFFECTS ON HUMANS	Reports have associated repeated and prolonged overexposure to solvents with neurological and other physiological damage. May cause anemia, bone marrow, liver damage. Repeated or prolonged skin contact may cause redness, irritation, and scaling of the skin.
CARCINOGENICITY	No evidence
TERATOGENICITY	No evidence
MUTAGENICITY	No evidence
REPRODUCTIVE EFFECTS	Not expected to have Reproductive effects.

SECTION 12 –ECOLOGICAL INFORMATION	
ECOTOXICITY DATA	Product expected to be toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment. <b>MOBILITY:</b> Mostly volatile material and will partition rapidly to air. Not expected to partition to sediment and wastewater solids.  <b>For Stoddard solvent (Mineral spirits) (8052-41-3):</b> Acute Toxicity to fish, LC50, Bluegill ( <i>Lepomis macrochirus</i> ): 2.1 – 4.2 mg / L /96h. Acute Toxicity to aquatic Invertebrates, EC50, <i>Daphnia magna</i> (Water flea): 0.42 – 2.3 mg /L /48 h. Acute Toxicity to Algae, EC50, Green Algae ( <i>Selenastrum capricornutum</i> ): 0.58 – 1.2 mg /L /72h.
BIODEGRADABILITY	Not readily biodegradable
PRODUCTS OF DEGRADATION	No information found

<b>SECTION 13 – DISPOSAL CONSIDERATIONS</b>	
<b>WASTE DISPOSAL</b>	Disposal of all wastes must be done in accordance with municipal, provincial and federal regulations
<b>INFORMATION ON SAFE HANDLING FOR DISPOSAL INCLUDING ANY CONTAMINATED PACKAGING</b>	Suitable waste facility

<b>SECTION 14 – TRANSPORT INFORMATION</b>	
<b>UN NUMBER</b>	1268
<b>UN PROPER SHIPPING NAME</b>	PETROLEUM DISTILLATES, N.O.S. (Stoddard Solvent, flash point 43 <sup>0</sup> C)
<b>TRANSPORT HAZARD CLASS</b>	CLASS 3: Combustible liquid
<b>PACKAGING GROUP</b>	Pk: III
<b>ENVIRONMENTAL HAZARDS</b>	Marine pollutant
<b>TRANSPORT IN BULK, if applicable</b>	NOT AVAILABLE
<b>SPECIAL PRECAUTIONS/PROVISIONS</b>	<p>Guide to Canadian transportation. Emergency Response Guidebook (ERG: # 128)</p> <p><b>TDG Additional information:</b> Not regulated for rail or road shipment if packaged in non-bulk containers (450 Lit or less each). Limited Quantity exemption may be used if product is in containers of 5 lit or less, per section 1.17 of TDG</p> <p><b>49CFR/DOT.</b> Limited Quantity exemption may be used if product is in containers of 5 lit or less, per section 173.150 of 49 CFR</p>

<b>SECTION 15 – REGULATORY INFORMATION</b>	
<b>SAFETY HEALTH &amp; ENVIRONMENTAL REGULATIONS SPECIFIC TO THE PRODUCT</b>	<p>U.S. TSCA inventory Status: All components of this product are either on the Toxic Substances Control Act (TSCA) INVENTORY List or exempt.</p> <p>Canadian DSL Inventory Status: All components of this product are either on the Domestic Substances List (DSL) or the Non-Domestic Substances List (NDSL) or exempt.</p>

<b>SECTION 16 – OTHER INFORMATION</b>	
<b>PREPARED BY:</b>	Gus Kaklamanos - Chemist
<b>TELEPHONE NO.:</b>	416-261-7182
<b>DATE OF THE LATEST REVISION OF SDS:</b>	August 23, 2022