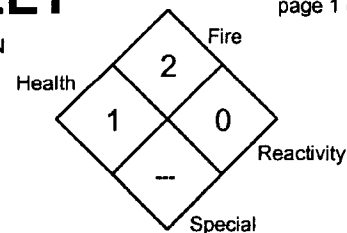


MATERIAL SAFETY DATA SHEET



GW International MSDS #: 54366
MSDS Revision/Issue Date: 09/21/00
Supercedes Revision Date: 10/28/97

NFPA 704 DESIGNATION
HAZARD RATING4=Extreme
3=High
2=Moderate
1=Slight
0=Insignificant

1. CHEMICAL PRODUCT IDENTIFICATION & COMPANY IDENTIFICATION

PRODUCT IDENTIFIER: SOLVENT GW 350 B**GENERAL USE:** Used as an industrial solvent, a diluent or thinner and as a fuel.**PRODUCT DESCRIPTION:** A clear, colorless, volatile mixed hydrocarbon solvent. Synonyms include naphtha safety solvent and white spirits.**INFORMATION PROVIDED BY:** GW INTERNATIONAL
Corporate Office
808 S.W. 15TH Avenue
Portland, OR 97205
For MSDS call: PHONE: 503-228-2600 or 800-547-1400**EMERGENCY PHONE NUMBERS**GW INTERNATIONAL: 800-497-7455
CHEMTREC: 800-424-9300
CANUTEC: 613-996-6666

2. COMPOSITION & INFORMATION ON INGREDIENTS

COMPONENT	CAS #	OSHA HAZARD	WT %	ACGIH		OSHA	
				TLV _(TWA)	STEL	PEL _(TWA)	STEL
Stoddard Solvent	008052-41-3	Combustible Liquid; Eye, Skin, Respiratory Irritant	100	100 ppm	None	500 ppm	None

NDA = No Data Available

N/A = Not Applicable

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: A clear, colorless, volatile liquid having a hydrocarbon odor. Vapors, mists and liquid may be irritating to the eyes, skin and respiratory tract. Aspiration hazard if swallowed. Combustible liquid and vapor per the OSHA and WHMIS criteria.**POTENTIAL HEALTH EFFECTS****INHALATION:** Inhalation of vapors or mists may cause irritation to the nose, mouth, throat, mucous membranes and lungs. Symptoms of exposure may include shortness of breath, chest discomfort, headache, dizziness, loss of coordination, slurred speech, drowsiness and other symptoms related to central nervous system depression. This material has a low to moderate degree of toxicity by inhalation.**EYE CONTACT:** Exposure to vapors, mists or liquid may cause moderate eye irritation. Symptoms of exposure may include tearing, redness and a possibly painful stinging sensation. Exposure is not expected to cause corneal damage or visual impairment.**SKIN CONTACT:** Exposure to mists or liquid may cause mild skin irritation. Symptoms of exposure may include redness, swelling, discomfort or a stinging sensation and dry skin. No published reports indicate this material is absorbed through the skin.**INGESTION:** Aspiration hazard. This material can enter the lungs, during swallowing or vomiting, and cause severe lung damage. Otherwise, ingestion may cause irritation to the entire gastrointestinal tract, including the stomach and intestines, characterized by nausea, vomiting, abdominal discomfort or pain, diarrhea, lowering of blood pressure, headache, lethargy and other symptoms related to central nervous system depression.**CHRONIC:** Chronic exposure may cause defatting and cracking of the skin, leading to dermatitis and possible liver and/or kidney damage based on animal studies.

4. FIRST AID MEASURES

INHALATION: If inhaled, immediately move to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; use the Holger Nielsen method (back pressure-arm lift) or proper respiratory device. If breathing is difficult, give oxygen. Call a physician.

EYE CONTACT: In case of contact, immediately flush eyes with plenty of clean running water for at least 15 minutes, lifting the upper and lower lids occasionally. Remove contact lenses, if worn. Get medical attention if irritation persists.

SKIN CONTACT: In case of contact, cleanse affected area thoroughly by washing with mild soap and water. Remove contaminated clothing and shoes, and wash before reuse. If irritation occurs and persists, get medical attention.

INGESTION: Aspiration hazard. If swallowed, get medical attention immediately. DO NOT induce vomiting or give anything by mouth. If vomited, this material can enter the lungs and cause severe lung damage. If victim is drowsy or unconscious, lay victim on side with the head down.

NOTE TO PHYSICIANS: The major hazard associated with this material is due to the aspiration hazard. If this material has been ingested, and it has been decided to empty the stomach contents, this should be done by the means least likely to cause aspiration, such as gastric lavage after endotracheal intubation. Treat exposure symptomatically.

5. FIRE FIGHTING MEASURES

Flashpoint and Method: 42.2 °C (108 °F) Tagliabue Closed Tester (ASTM D 56-79)

Flammable Limits (in air, % by volume) Lower: 0.7% Upper: 6.0%

Autoignition Temperature: 229.4 °C (445 °F)

GENERAL HAZARD: The Uniform Fire Code physical hazard classification for this material is: **Combustible Liquid, Class II.** Vapors are heavier than air and may travel along the ground and be ignited by ignition sources at distant locations. Vapors from this material may concentrate in confined spaces and form an explosive mixture. This material may produce hazardous fumes or hazardous decomposition products. Heated containers may rupture violently from the excessive heat in a fire.

FIRE FIGHTING INSTRUCTIONS: **EXTINGUISHING MEDIA:** Water fog, foam, CO₂ or dry chemical.
Use water spray to cool containers exposed to heat of fire. Water may not be effective for extinguishing burning product. This material will float on the surface of water and it may reignite.

FIRE FIGHTING EQUIPMENT: Fire fighters should wear full protective equipment, including self-contained breathing apparatus.

HAZARDOUS COMBUSTION PRODUCTS: When heated to decomposition, it emits toxic carbon monoxide and carbon dioxide plus dense, irritating smoke.

6. ACCIDENTAL RELEASE MEASURES

LAND SPILL: Remove all ignition sources. Vapors, which are heavier than air, can be concentrated at ground level. Wearing recommended protective equipment and clothing, dike the spill and pick up the bulk of liquid using non-sparking tools, or absorb the liquid in sand or a non-combustible absorbent. Place in approved containers for recovery, disposal, or satellite accumulation. For large spills, vapors may be dispersed by the use of a water fog; the run-off must be controlled and disposed of properly.

WATER SPILL: Wear recommended protective equipment and clothing if contact with hazardous material can occur. Stop or divert water flow. Dike contaminated water and remove for disposal and/or treatment. As appropriate, notify all downstream users of possible contamination.

7. HANDLING AND STORAGE

STORAGE TEMPERATURE: Ambient **STORAGE PRESSURE:** Ambient

GENERAL: Store in a cool, dry, well ventilated area away from all sources of ignition and incompatible materials or products. Outside storage is preferable. Inside storage must be in compliance with all OSHA regulations and local fire codes. Do not store in direct sunlight. Avoid breathing vapors, mists or aerosols. Use with adequate ventilation. Protect eyes, skin and clothing from contact with this material. Wear recommended personnel protective equipment. Keep containers tightly closed when not in use. Wash thoroughly with soap and water after handling. **Always electrically ground and bond all containers and equipment when transferring product.**

The empty containers are hazardous. They can contain flammable residues and vapors. Do not cut, puncture or weld on or near these containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

CONTROL MEASURES: Use a local or general mechanical exhaust ventilation system capable of maintaining emissions in the work area below the ACGIH-TLV or OSHA-PEL. Where explosive mixtures may be present, electrical systems safe for such locations are required.

RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

RESPIRATOR: For exposure above the ACGIH-TLV or OSHA-PEL, wear a NIOSH approved full facepiece or half mask air-purifying cartridge respirator equipped with a good organic vapor cartridge or supplied air.

EYES: Wear chemical goggles (recommended by ANSI Z87.1-1979), unless a full facepiece respirator is worn.

GLOVES: Wear nitrile, polyvinyl alcohol (PVA), Viton or 4H gloves.

CLOTHING & EQUIPMENT: Wear a nitrile, PVA or Viton apron or full protective clothing when handling this material. An eye wash station and safety shower should be available in the work area.

FOOTWEAR: Wear PVA, nitrile or rubber boots with 4H inserts.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, colorless	Bulk Density (pounds/ft³):	Not applicable
Physical State:	Liquid	Vapor Pressure:	2 mm Hg @ 20 °C
Odor:	Hydrocarbon	Vapor Density (air=1):	4.8
Odor Threshold:	No data available	Evaporation Rate (n-Butyl Acetate=1):	0.13
Molecular Formula:	Mixture	VOC Content:	Approximately 777 g/L
Molecular Weight:	Not applicable	% Volatile:	100
Boiling Point:	159 – 195 °C (318 – 383 °F)	Solubility in H₂O:	Negligible
Freezing/Melting Point:	No data available	Octanol/Water Partition Coefficient:	No data available
Specific Gravity:	Approximately 0.777 @ 15 °C	pH (as is):	Not applicable
Density (pounds/gallon):	Approximately 6.48	pH (1% solution):	Not applicable

10. STABILITY AND REACTIVITY

GENERAL: This product is stable and hazardous polymerization will not occur.

CONDITIONS TO AVOID: Hot storage

INCOMPATIBLE MATERIAL: Strong oxidizing agents and strong reducing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: When heated to decomposition, it emits toxic oxides of carbon plus dense, irritating smoke.

SENSITIVITY TO MECHANICAL IMPACT: This material is not sensitive to mechanical impact.

SENSITIVITY TO STATIC DISCHARGE: This material is sensitive to static discharge.

11. TOXICOLOGICAL INFORMATION

Components: Stoddard Solvent
Eye Contact: Rabbit: 500 mg/24 hours; Moderate
Skin Contact: No data available
Oral Rat LD₅₀: Greater than 5 g/kg
Dermal Rabbit LD₅₀: Greater than 3 g/kg
Inhalation Rat LC₅₀: Greater than 5,500 mg/m³/4 hours
Human Data: Eye Contact: 470 ppm/15 minutes
Other Toxicological Data: Inhalation Dog LC: Greater than 8 g/m³/8 hours
Carcinogenicity: No data available
Teratogenicity: No data available
Mutagenicity: No data available
Synergistic Products: None Reported
Target Organs: Eyes, Skin, Mucous Membranes, Lungs, CNS
Medical Conditions
Aggravated By Exposure: Skin, Respiratory Disorders

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE:
 This material is lighter than water and negligibly soluble in water. No specific environmental fate data is available. This material is not expected to affect the pH of water.

ENVIRONMENTAL CONSIDERATIONS:
 The aquatic toxicity for this material has not been determined.

13. DISPOSAL CONSIDERATIONS

RCRA 40 CFR 261 CLASSIFICATION: Ignitable Waste
U.S. EPA WASTE NUMBER/DESCRIPTION: D001

If this product is disposed of as shipped, it meets the criteria of a hazardous waste as defined under 40 CFR 261 due to its ignitability. If this product becomes a waste, it will be a hazardous waste, which is subject to the Land Disposal Restrictions under 40 CFR 268 and must be managed accordingly. As a hazardous liquid waste, it must be disposed of in accordance with local, state, and federal regulations in a permitted hazardous waste treatment, storage, and disposal facility, by incineration.

14. TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: Petroleum Distillates, N.O.S., (Stoddard Solvent)
Hazard Class: 3 **UN Number:** UN1268 **Packing Group:** III
Primary Label: Flammable Liquid **Subsidiary Label(s):** None Required
Primary/Subsidiary Placards: Flammable Liquid / None Required

DOT Reportable Quantity (RQ): None
Marine Pollutant: No

2000 North American Emergency Response Guidebook No.: 128

TDG PROPER SHIPPING NAME: Petroleum Distillates, N.O.S., (Stoddard Solvent)
Hazard Class: 3 **UN Number:** UN1268 **Packing Group:** III
Primary Label: Flammable Liquid **Subsidiary Label(s):** None Required
Primary/Subsidiary Placards: Flammable Liquid / None Required

TDG Reportable Quantity (RQ):[#] At least 200 liters
TDG Schedule XII: No
Regulated Limit (RL):^{##} None
Other Shipping Information: None

[#] Canadian Transportation of Dangerous Goods Regulations (TDGR), Part IX, Table I, Quantities or levels for Immediate Reporting: releases of reportable quantities, RQ, that meet the definition of a "dangerous occurrence" (a threat to life, health, property, or the environment) must be reported to the appropriate authorities as outlined in TDGR 9.13(1) and 9.14(1).

^{##} Reporting to Environment Canada is required for any releases exceeding the regulated limits, RL, of 9.2 materials (primary or secondary). The regulated limits are found in Schedule XIII of the TDGR.

15. REGULATORY INFORMATION

COMPONENTS: Stoddard Solvent
OSHA Target Organs: Eyes, Skin, Lungs, CNS, Mucous Membranes

Carcinogenic Potential:
Regulated by OSHA: No
Listed on NTP Report: No
Listed by IARC: Yes
 IARC Group: (See section 16)
ACGIH Appendix A: Not listed
 A1 Confirmed Human: Not applicable
 A2 Suspected Human: Not applicable

U.S. EPA Requirements

Release Reporting
CERCLA (40 CFR 302)
Listed Substance: No
 Reportable Quantity: Not applicable
 Category: Not applicable
 RCRA Waste No.: Not applicable
Unlisted Substance: Yes
 Reportable Quantity: 100 pounds
 Characteristic: Ignitability
 RCRA Waste No.: D001

SARA TITLE III

Section 302 & 303 (40 CFR 355):
Listed Substance: No
 Reportable Quantity: Not applicable
 Planning Threshold: Not applicable
Section 311 & 312 (40 CFR 370):
 Hazard Categories (product): Fire: Y Sudden Release of Pressure: N Reactive: N Acute Health: Y Chronic Health: N
 Planning threshold: 10,000 pounds
Section 313 (40 CFR 372):
Listed Toxic Chemical: No
 Reporting Threshold: Not applicable

U.S. TSCA Status

Listed (40 CFR 710): Yes

State Regulations

State of California: Safe Drinking Water and Toxins Enforcement Act, 1986 (Proposition 65):
 Carcinogen: No
 Reproductive Toxin: No

Other Regulations

State Right To Know Laws: MA, NJ, PA

Canadian Regulations

Product Information:
 Controlled Product: Yes
 WHMIS Hazard Symbols: **Combustible Material; Material Causing Other Toxic Effects**
 WHMIS Class & Division: **B.3; D.2B**
Ingredient Information:
 IDL Substance: Yes
 Domestic Substance List: Yes

16. OTHER INFORMATION**EPA Registration number:** Not applicable**Approved Product Uses:** Not applicable**Special Notes:**

WARNING: Hot organic chemical vapors or mists are susceptible to sudden spontaneous combustion when mixed with air. Ignition may occur at temperatures below those published in the literature as "autoignition" or "ignition" temperatures. Ignition temperatures decrease with increasing vapor volume and vapor/air contact time and are influenced by pressure changes.

Ignition may occur at typical elevated-temperature process conditions, especially in processes operating under vacuum, if subjected to a sudden ingress of air, or outside process equipment operating under elevated pressure if a sudden escape of vapors or mists to the atmosphere occurs. Any proposed use of this product in elevated-temperature processes should be thoroughly evaluated to assure that safe operating conditions are established and maintained.

Additional California Proposition 65 Information: Petroleum and petrochemical products may contain trace amounts of chemicals known to cause cancer and/or birth defects or other reproductive harm. Trace contaminants may be naturally present in the raw materials, may result from the manufacturing process, or the product may become inadvertently contaminated during handling.

IARC Classification: Stoddard Solvent has been included in a summary evaluation but has not been assigned an overall evaluation – it may have been assigned a degree of evidence suggesting carcinogenic potential, may be a member of a parent group that has been classified as carcinogenic, or may be a synonym for a substance assigned an overall evaluation. However, it is not included in IARC Groups 1, 2A, 2B, 3 or 4.

MSDS Revision Information: Information Revised This Issue Date: Revised per the Canadian 3 year update requirement.

Form Revision made 08/01/00

MSDS Distributed by: GW International

Environmental Department

Phone: 800-547-1400 FAX: 503-412-3390

Prepared By: Edward Doheny	Date Prepared: September 21, 2000
-----------------------------------	--

This Material Safety Data Sheet is provided as an information resource only. It should not be taken as a warranty or representation for which GW International assumes legal responsibility. While GW International believes the information contained herein is accurate and compiled from sources believed to be reliable, it is the responsibility of the user to investigate and verify its validity. The buyer assumes all responsibility of using and handling the product in accordance with applicable federal, state, and local regulations.