

VB 1034  
VB 1035  
VB 1036

Product Name: GS250 Grip Solvent  
Product Code: GS250

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## SAFETY DATA SHEET

### 1. Product and Company Identification

**Product Name:** GS 250 Grip Solvent

**Product Code:** GS250

**Chemical Type:** Solvent Blend

**Product Use:** Use as received. Shake well before use.

**Manufacturer:** Chemical Solvents Inc.

**Revision Date:** 11/15/2018

**Address:** 3751 Jennings Rd.  
Cleveland, Ohio 44109

**Emergency:** Chemtrec (800)424-9300  
**Phone:** (800) 362-0693

### 2. Hazards Identification

**GHS Classification of the substance or mixture :**

Flammable liquids, Category 3

Skin irritation, Category 2

Eye Irritation, Category 2A

Skin Sensitization, Category 1

Reproductive toxicity, Category 2

Carcinogen, Category 2

Specific target organ systemic toxicity - single exposure, Category 3, Respiratory system, Central nervous system

Specific target organ systemic toxicity - repeated exposure, Category 1, Nervous system

Aspiration hazard, Category 1

**Signal word :** Danger



**Hazard pictograms :**

**Hazard statements :**

Flammable liquid and vapor. Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways.

**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. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist/vapors/spray. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection.

**Response :**

IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting.  
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If exposed or concerned: Get medical advice/attention. Get medical advice/attention if you feel unwell. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. In case of fire: Use foam, powder, or carbon dioxide for extinction.

**Storage:** Store locked up. Store in a well-ventilated place. Keep cool.

**Disposal:** Dispose of contents and container in accordance with all local, regional, national and international regulations.

### 3. Composition / Information on Ingredients

Ingredients	CAS #	Percent
Hydrotreated Light Distillates	64742-47-8	80-90%
Xylene - mixed	1330-20-7	5-15%
d-limonene	5989-27-5	2-8%
ethylbenzene	100-41-4	<2.5%
Toluene	108-88-3	<1%

### 4. First Aid Measures

**Inhalation:**

Supply fresh air; consult doctor in case of complaints. Provide oxygen treatment if affected person has difficulty breathing. In case of irregular breathing or respiratory arrest provide artificial respiration. In case of unconsciousness place patient stably in side position for transportation.

**Skin contact:**

Immediately remove any clothing soiled by the product. Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.

**Eye contact:**

Remove contact lenses if worn. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**Swallowing:**

Rinse out mouth and then drink plenty of water. Do not induce vomiting; immediately call for medical help. A person vomiting while lying on their back should be turned onto their side.

**Most important symptoms and effects, both acute and delayed:**

Headache, Breathing difficulty, Dizziness, Coughing, Vomiting; Irritant to skin and mucous membranes. Gastric or intestinal disorders when ingested. Nausea in case of ingestion. Allergic reactions, Disorientation

### 5. Fire Fighting Measures

**Extinguishing media**

**Suitable extinguishing agents:** Foam, Alcohol resistant foam, Carbon dioxide, Fire-extinguishing powder, Water fog / haze

**For safety reasons unsuitable extinguishing agents:** Water stream.

**Special hazards arising from the substance or mixture**

Flammable liquid and vapor. Formation of toxic gases is possible during heating or in case of fire.

**Advice for firefighters Protective equipment:** Wear self-contained respiratory protective device. Wear fully protective suit.

**Additional information:**

Eliminate all ignition sources if safe to do so. Cool endangered containers with water fog.

## 6. Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures

Use respiratory protective device against the effects of fumes/dust/aerosol.  
Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation.  
Keep away from ignition sources. Protect from heat. Particular danger of slipping on leaked/spilled product.

**Environmental precautions** Do not allow to enter sewers/ surface or ground water.

### Methods and material for containment and cleaning up

Absorb with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders). Remove from the water surface (e.g. skim or suck off). Send for recovery or disposal in suitable receptacles.

## 7. Handling and Storage

**Handling:** FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN

Use in accordance with good work place practices. Use with adequate ventilation. Keep containers closed when not in use. Always open containers slowly to allow any excess pressure to vent. Avoid breathing vapor. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling. Decontaminate soiled clothing thoroughly before re-use. Destroy contaminated leather clothing.

This product may generate a static charge. Ground/bond equipment when transferring material to prevent static accumulation. Electrical equipment and circuits in all storage and handling must conform to requirements of National Electric Code (Article 500 and 501) for hazardous location. Empty containers may contain residues from the product. Treat empty containers with the same precautions as the material last contained. Do not cut, weld or apply heat to empty containers.

**Storage:** Store in a cool, dry area, away from heat or direct sunlight. Keep containers closed when not in use. Do not store with incompatible materials

## 8. Exposure Controls / Personal Protection

### Exposure controls

**Engineering Controls:** Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits indicated below. All electrical equipment should comply with the National Electric Code. An emergency eye wash station and safety shower should be located near the work-station.

**Personal Protective Equipment:** Personal protective equipment should be selected based upon the conditions under which this material is used. A hazard assessment of the work area for PPE requirements should be conducted by a qualified professional pursuant to OSHA regulations.

**Eye Protection:** Safety glasses equipped with side shields are recommended as minimum protection in industrial settings. Chemical goggles should be worn during transfer operations or when there is a likelihood of misting, splashing, or spraying of this material. Suitable eye wash water should be readily available.

**Hand Protection:** Avoid skin contact. Use chemical resistant gloves. Wash hands with plenty of mild soap and water before eating, drinking, smoking, use of toilet facilities or leaving work. DO NOT use gasoline, kerosene, solvents or harsh abrasives as skin cleaners.

**Body Protection:** Avoid skin contact. Wear long-sleeved fire-retardant garments (e.g., Nomex®) while working with flammable and combustible liquids. Additional chemical-resistant protective

gear may be required if splashing or spraying conditions exist. This may include an apron, boots and additional facial protection. If product comes in contact with clothing, immediately remove soaked clothing and shower. Promptly remove and discarded contaminated leather goods.

**Respiratory Protection:** Based on workplace contaminant level and working limits of the respirator, use a respirator approved by NIOSH. The following is the minimum recommended equipment for an occupational exposure level. For concentrations  $> 1$  and  $< 10$  times the occupational exposure level: Use air-purifying respirator with full face-piece and organic vapor cartridge(s) or air-purifying full face-piece respirator with an organic vapor canister or a full face-piece powered air-purifying respirator fitted with organic vapor cartridge(s). The air purifying element must have an end of service life indicator, or a documented change out schedule must be established. Otherwise, use supplied air. For escape: Use self-contained breathing apparatus with full face-piece or any respirator specifically approved for escape.

**General Comments:** Warning! Use of this material in spaces without adequate ventilation may result in generation of hazardous levels of combustion products and/or inadequate oxygen levels for breathing. Odor is an inadequate warning for hazardous conditions.

**Other Suggested Equipment:** Eye wash station and emergency showers should be available. Spill containment equipment should be available.

**Discretion Advised:** Chemical Solvents Inc. takes no responsibility for determining what measures are required for personal protection in any specific application. The general information should be used with discretion.

**Exposure guidelines: Components Exposure limit(s)**  
**64742-47-8 Distillates (petroleum), hydro- treated light**

EL (Canada) Long-term value: 200 mg/m<sup>3</sup> Skin

**1330-20-7 Xylene**

PEL (USA) Long-term value: 435 mg/m<sup>3</sup>, 100 ppm

REL (USA) Short-term value: 655 mg/m<sup>3</sup>, 150 ppm

Long-term value: 435 mg/m<sup>3</sup>, 100 ppm

TLV (USA) Short-term value: 651 mg/m<sup>3</sup>, 150 ppm

Long-term value: 434 mg/m<sup>3</sup>, 100 ppm BEI

EL (Canada) Short-term value: 150 ppm

Long-term value: 100 ppm

EV (Canada) short-term value: 650 mg/m<sup>3</sup>, 150 ppm

Long-term value: 435 mg/m<sup>3</sup>, 100 ppm

LMPE (Mexico) Short-term value: 150 ppm

Long-term value: 100 ppm A4, IBE

**100-41-4 ethylbenzene**

PEL (USA) Long-term value: 435 mg/m<sup>3</sup>, 100 ppm

REL (USA) Short-term value: 545 mg/m<sup>3</sup>, 125 ppm

Long-term value: 435 mg/m<sup>3</sup>, 100 ppm

TLV (USA) Long-term value: 87 mg/m<sup>3</sup>, 20 ppm BEI

EL (Canada) Long-term value: 20 ppm TARC 2B

EV (Canada) Short-term value: 540 mg/m<sup>3</sup>, 125 ppm

Long-term value: 435 mg/m<sup>3</sup>, 100 ppm

LMPE (Mexico) Long-term value: 20 ppm

**108-88-3 Toluene**

PEL (USA) Long-term value: 200 ppm

Ceiling limit value: 300; 500\* ppm

\*10-min peak per 8-hr shift

REL (USA) Short-term value: 560 mg/m<sup>3</sup>, 150 ppm

Long-term value: 375 mg/m<sup>3</sup>, 100 ppm

TLV (USA) Long-term value: 75 mg/m<sup>3</sup>, 20 ppm BEI

EL (Canada) Long-term value: 20 ppm

EV (Canada) Long-term value: 20 ppm

LMPE (Mexico) Long-term value: 20 ppm A4, IBE

PEL= Permissible Exposure Limits  
TLV= Threshold Limit Value  
EL= Excursion Limit

TWA= Time Weighted Average (8 hr.)  
STEL= Short Term Exposure Limit (15 min.)  
WEEL= Workplace Environmental Exposure Level

**Ingredients with biological limit values:**

**1330-20-7 Xylene**

BEI (USA) 1.5 g/g creatinine Medium: urine Time: end of shift

Parameter: Methylhippuric acids

**100-41-4 ethylbenzene**

BEI (USA) 0.7 g/g creatinine Medium: urine Time: end of shift at end of workweek

Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)

- Medium: end-exhaled air Time: not critical

Parameter: Ethyl benzene (semi-quantitative)

**108-88-3 Toluene**

BEI (USA) 0.02 mg/L Medium: blood Time: prior to last shift of workweek

Parameter: Toluene 0.03 mg/L Medium: urine Time: end of shift

Parameter: Toluene

0.3 mg/g creatinine Medium: urine Time: end of shift

Parameter: o-Cresol with hydrolysis (background)

## 9. Physical and Chemical Properties

**Appearance:**

Form: Liquid

Odor: Citrus.

Color: Clear to straw color.

Odor threshold: Not determined.

pH-value: Not determined.

Melting point/Melting range: Not determined.

Boiling point/Boiling range: Not determined.

Flash point: 130 °F

Flammability (solid, gaseous): Not applicable.

Auto-ignition temperature: Not determined.

Decomposition temperature: Not determined.

Danger of explosion: Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

Explosion limits

Lower: Not determined.

Upper: Not determined.

Oxidizing properties: Non-oxidizing.

Vapor pressure: Not determined.

Relative density: 0.791

Vapor density: Not determined.

Evaporation rate: Not determined.

Solubility in / Miscibility with Water: Not miscible or difficult to mix.

Partition coefficient (n-octanol/water): Not determined.

Viscosity

Dynamic: Not determined. Kinematic at 40 °C (104 °F): Not Determined

## 10. Stability and Reactivity

**Reactivity:** No relevant information available.

**Chemical stability:** Stable under normal temperatures and pressures.

**Thermal decomposition / conditions to be avoided:** Keep away from heat and direct sunlight.

**Possibility of hazardous reactions**

Flammable liquid and vapor. Reacts with oxidizing agents. Toxic fumes may be released if heated above the decomposition point. Used empty containers may contain product gases which form explosive mixtures with air. Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomized.

**Conditions to avoid** Excessive heat.

**Incompatible materials** Oxidizers  
**Hazardous decomposition products**  
Carbon monoxide and carbon dioxide, Hydrocarbons

## 11. Toxicological Information

### Hydrotreated Distillate, Light ..C9-16 64742-47-8

#### **Chronic Data:**

**Carcinogenicity:** Prolonged and repeated skin exposure of mice to certain middle distillate streams has resulted in dermatitis, which has been associated with the promotion of skin tumors via a non-genotoxic mechanism. This material has not been identified as a carcinogen by NTP, IARC, or OSHA.

#### **Acute Data:**

### Hydrotreated Distillate, Light ..C9-16 64742-47-8

Dermal LD50= >2g/kg (Rabbit) (Based on similar material)

Inhalation LC50= >5mg/L (4-hr., Rat) (Based on similar material)

Oral LD50= > 5g/kg (Rat) (Based on similar material)

### d-limonene 5989-27-5

**Oral:** LD50 >5 g/kg, rabbit

**Dermal:** LD50 >5 g/kg, rabbit

**Skin:** The skin irritancy of limonene in guinea pigs and rabbits is considered moderate and low, respectively.

**Sensitization:** d-Limonene is not a sensitizer. Improper storage and handling can lead to oxidation. The oxidized forms of d-Limonene have been shown to be a skin sensitizer.

**Inhalation:** RD50 >1000 ppm

**Chronic Toxicity:** Not listed as a carcinogen (OSHA, NTP, IARC, or ACGIH)

### Xylene 1330-20-7

**Inhalation** Harmful if inhaled. May cause damage to organs through prolonged or repeated exposure by

inhalation. Inhalation of vapors may cause irritation to respiratory tract.

**Skin contact** Harmful in contact with skin. Causes skin irritation.

**Eye contact** Causes serious eye irritation.

**Ingestion** Swallowing or vomiting of the liquid may result in aspiration into the lungs. Droplets of the product

aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.

#### **Symptoms related to the physical, chemical and toxicological characteristics**

Abdominal pain. Nausea, vomiting. Swallowing or vomiting of the liquid may result in aspiration

into the lungs. Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation.

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause

respiratory irritation. Skin irritation. May cause redness and pain. Edema.

#### **Information on toxicological effects**

**Acute toxicity** May be fatal if swallowed and enters airways. Harmful if inhaled. Harmful in contact with skin. May cause respiratory irritation.

#### **Components Species Test Results**

Toluene (CAS 108-88-3)	LC50 Rat <i>Inhalation</i>	8000 mg/l, 4 Hours
	LD50 Rat <i>Oral</i>	2.6 g/kg

**Skin corrosion/irritation** Causes skin irritation.

**Serious eye damage/eye irritation** Causes serious eye irritation.

**Respiratory sensitization** No data available.

**Skin sensitization** No data available.

**Germ cell mutagenicity** No data available.

**Carcinogenicity** Suspected of causing cancer.

#### **IARC Monographs. Overall Evaluation of Carcinogenicity**

Ethylbenzene (CAS 100-41-4) 2B Possibly carcinogenic to humans.

m-Xylene (CAS 108-38-3) 3 Not classifiable as to carcinogenicity to humans.

o-Xylene (CAS 95-47-6) 3 Not classifiable as to carcinogenicity to humans.

p-Xylene (CAS 106-42-3) 3 Not classifiable as to carcinogenicity to humans.

Toluene (CAS 108-88-3) 3 Not classifiable as to carcinogenicity to humans.

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

**Reproductive toxicity** Suspected of damaging fertility or the unborn child.

**Specific target organ toxicity - single exposure** May cause irritation to the respiratory system.

**Specific target organ toxicity - repeated exposure** May cause damage to organs (central nervous system, kidney, liver) through prolonged or repeated exposure.

**Aspiration hazard** May be fatal if swallowed and enters airways.

**Chronic effects** Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects. Long term exposures may affect liver, kidneys, and central nervous system.

**Further information** No other specific acute or chronic health impact noted.

Caution studies have linked the over exposure of "solvents" to possible irregularities in blood and Non-Hodgkin's Lymphoma.

### **12. Ecological Information**

**Persistence and degradability** The product is partially biodegradable. Significant residuals remain.

**Bioaccumulative potential:** No relevant information available.

**Mobility in soil:** No relevant information available.

**Ecotoxicological effects:**

· **Remark:** Due to mechanical actions of the product (e.g. agglutinations), damages may occur.

**Additional ecological information**

· **General notes:** Do not allow product to reach ground water, water course or sewage system.

**Other adverse effects** No relevant information available.

### **13. Disposal Considerations**

Dispose of spilled material in accordance with state and local regulations for waste that is non-hazardous by Federal definition. Note that this information applies to the material as manufactured; processing, use, or contamination may make this information inappropriate, inaccurate, or incomplete. Note that this handling and disposal information may also apply to empty containers, liners and rinsate. State or local regulations or restrictions are complex and may differ from federal regulations. This information is intended as an aid to proper handling and disposal; the final responsibility for handling and disposal is with the owner of the waste.

### **14. Transport Information**

NA 1993, Combustible Liquid N.O.S, PGIII, ERG#128

## 15. Regulatory Information

### Environmental Regulations

#### United States (USA)

##### SARA

- Section 302 (extremely hazardous substances): None of the ingredients are listed.
- Section 355 (extremely hazardous substances): None of the ingredients are listed.
- Section 313 (Specific toxic chemical listings):

m-Xylene 108-38-3                      p-Xylene 106-42-3  
Ethylbenzene 100-41-4                  o-Xylene 95-47-6

- TSCA (Toxic Substances Control Act) All ingredients are listed.

#### Proposition 65 (California)

##### Chemicals known to cause cancer:

100-41-4 ethylbenzene 71-43-2 benzene

- Chemicals known to cause developmental toxicity for females: No ingredients are listed.

- Chemicals known to cause developmental toxicity for males: 71-43-2 benzene

- Chemicals known to cause developmental toxicity: 108-88-3 Toluene, 71-43-2 benzene

##### EPA (Environmental Protection Agency):

1330-20-7 Xylene I                      100-41-4 ethylbenzene D  
108-88-3 Toluene II

##### IARC (International Agency for Research on Cancer):

100-41-4 ethylbenzene 2B                  98-82-8 Cumene 2B  
71-43-2 benzene 1                          91-20-3 Naphthalene 2B

##### CERCLA Hazardous Substance List (40 CFR 302.4)

Ethylbenzene (CAS 100-41-4) LISTED                  m-Xylene (CAS 108-38-3) LISTED  
o-Xylene (CAS 95-47-6) LISTED                          p-Xylene (CAS 106-42-3) LISTED  
Toluene (CAS 108-88-3) LISTED

#### US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Benzene (CAS 71-43-2), Ethylbenzene (CAS 100-41-4), Toluene (CAS 108-88-3)

## 16. Other Information

**Hazard ratings** This information is intended solely for the use of individuals trained in the NFPA and/or HMIS systems.

NEPA: Health: 2 Flammability: 2 Reactivity: 0

HMIS: Health: 2\* Flammability: 2 Reactivity: 0

RATING: 4-EXTREME 3-HIGH 2-MODERATE 1-SLIGHT 0-INSLIGNIFICANT

#### Note:

For industrial use only. The information contained herein is accurate to the best of our knowledge. We do not suggest or guarantee that any hazards listed herein are the only ones which exist. Chemical Solvents Inc makes no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances. Effects can be aggravated by other materials and/or this material may aggravate or add to the effects of other materials. This material may be released from gas, liquid, or solid materials made directly or indirectly from it. User has the sole responsibility to determine the suitability of the materials for any use and the manner of use contemplated. User must meet all applicable safety and health standards. Possession of an MSDS does not indicate that the possessor of the MSDS was a purchaser or user of the subject product. 11/15/2018