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Material Safety Data for: 150 Solvent

1. PRODUCT IDENTIFICATION

Name medium aliphatic solvent naphtha (petroleum)
Synonyms heavy aliphatic naphtha (petroleum), sometimes Stoddard Solvent
CAS# 64742-88-7 – Alternates 64742-48-9 & 64742-96-7
Product Uses solvent, diluent, fuel

2. INGREDIENTS

| | % | TWAEV / TLV ppm / mg/m ³ | LD ₅₀ ORAL | (mg/kg) SKIN | LC ₅₀ ppm INHALATION |
|---------------------------|------|--|--------------------------|-----------------|------------------------------------|
| Aliphatic Solvent Naphtha | 100% | 100 / 580 | >2000 | >2000 | see Part 3 |

3. (a) HAZARDS SUMMARY

Hazards, Quick Guide: combustible liquid, heavy vapour travels, distant ignition and flashback are possible

Canada – WHMIS

Key:

B 3

B 2 – Flash Point <38°C, **B 3** – Flash Point >38°C & <93°C

D 1 – Immediately Toxic, **D 2** – Chronic Toxicity

C – Oxidising Substance, **E** – Corrosive

U.S.A. – HMIS

Key:

Health – 1, Fire – 2, Reactivity – 0

0=minimal, 1=slight, 2=moderate, 3=serious, 4=severe

3. (b) HAZARDS – TOXICITY

Effects, Acute Exposure

| | |
|-----------------|---|
| Skin Contact | somewhat drying; may irritate after prolonged exposure |
| Skin Absorption | slight; no toxic effects likely by this route |
| Eye Contact | slightly irritating; may cause temporary blurred vision |
| Inhalation | headache, dizziness, drowsiness, intoxication, but only at very high vapour or mist titre |
| Ingestion | poorly absorbed; 100+ml may cause a (temporary) diarrhoea or laxative effect |

Effects, Chronic Exposure

| | |
|-------------------------------|---|
| General | prolonged exposure may cause dermatitis |
| Sensitising | not a sensitiser in humans or animals |
| Carcinogen/Tumorigen | not considered a tumorigen or a carcinogen in humans or animals |
| Reproductive Effect | no known effect in humans or animals |
| Mutagen | no known effect on humans or animals |
| Synergistic With | not known |
| LD ₅₀ (oral) | >2000mg/kg (rat, Europe), >6400mg/kg (rat, Canada) |
| LD ₅₀ (skin) | >2000mg/kg (rat, Europe), >3200mg/kg (rabbit, Canada) |
| LC ₅₀ (inhalation) | above the saturated vapour pressure (rat, Europe & Canada) |

Please ensure that this MSDS is given to, and explained to people using this product.

4. FIRST AID

| | |
|-------------|---|
| SKIN: | Wash with soap and plenty of water. Remove contaminated clothing and do not reuse until thoroughly cleaned or laundered. |
| EYES: | Wash eyes with plenty of water, holding eyelids open. Seek medical assistance promptly if there is irritation. |
| INHALATION: | Remove from contaminated area promptly. CAUTION: Rescuer must not endanger himself! If breathing stops, administer artificial respiration and seek medical aid promptly. |
| INGESTION: | Give plenty of water to dilute product. Do not induce vomiting (NOTE below). Keep victim quiet. If vomiting occurs, lower victim's head below hips to prevent inhalation of vomited material. Seek medical help promptly. |

Inadvertent inhalation of vomited material may seriously damage the lungs. The danger of this is greater than the risk of poisoning through absorption of this relatively low-toxicity substance. The stomach should only be emptied under medical supervision, and after the installation of an airway to protect the lungs.

5. PHYSICAL PROPERTIES

| | |
|---|---|
| Odour & Appearance | clear, colourless liquid with slight mineral spirits odour |
| Odour Threshold | not known |
| Vapour Pressure | below 0.7mmHg / 0.09kPa (20°C / 68°F) |
| Evaporation Rate (<i>Butyl Acetate = 1</i>) | 0.03 |
| Vapour Density (air = 1) | 6.5 |
| Boiling Range | 182-232°C / 360-450°F |
| Freezing Point | below -60°C / -76°F |
| Specific Gravity | 0.8 (20/20°C) |
| Water Solubility | nil |
| Also soluble in | most fats & oils, organic solvents, limited solubility in glycols, methanol, & castor oil |
| Viscosity | not known |
| pH | none – (<i>does not liberate hydrogen ions when dissolved</i>) |
| Conversion Factor | 1ppm = 6mg/m ³ |
| Molecular Weight | not known – mixture of molecular species |

NOTE: *This product is a distillate containing many different hydrocarbons. Specifications may vary depending on source.*

6. FLAMMABILITY & FIRE FIGHTING

| | |
|----------------------------|---|
| Flash Point | above 61°C / 142°F (Tag closed cup) |
| Autoignition Temperature | 220°C / 430°F |
| Flammable Limits | 1% – 7% |
| Combustion Products | carbon monoxide, nitrogen oxides, smoke, part oxidised hydrocarbon fragments |
| Firefighting Precautions | foam, dry chemical, water fog, water spray only to cool & dilute, product floats on water – water jet spreads flames; firefighters must wear SCBA |
| Static Charge Accumulation | accumulates a static charge on agitation; high flash point makes ignition highly unlikely |

7. STABILITY / REACTIVITY

| | |
|--------------------------------|---|
| Dangerously Reactive With | strong oxidising agents |
| Also Reactive With | none known |
| Stability | stable; will not polymerize |
| Decomposes in Presence of | not known |
| Decomposition Products | none apart from Hazardous Combustion Products |
| Sensitive to Mechanical Impact | no |

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8. PROTECTIVE EQUIPMENT / EXPOSURE CONTROL

| | |
|-------------|--|
| TWAEV / TLV | 100ppm / 580mg/m ³ |
| STEL | 500ppm / 2900mg/m ³ (OSHA PEL) |
| Ventilation | mechanical ventilation may be required to maintain airborne titre below TWAEV; depending on handling |
| Hands | nitrile or "Viton" gloves may be worn – <i>other types may also protect; consult supplier to confirm suitability</i> |
| Eyes | safety glasses with side shields – <i>always protect the eyes</i> |
| Clothing | no special protective clothing required |

9. HANDLING & STORAGE

Store in a cool, dry environment, away from sources of ignition, heat and oxidising agents.

This product can accumulate a static charge on agitation or transfer from one container to another. Although its flash point is high, it is prudent to ground or electrically bond both the source container, the receiving container, and the transfer pump before transferring volumes greater than 200litres. Avoid splashing by ensuring that the product nozzle is below the surface in the receiving container. Empty containers may contain a flammable / explosive vapour. Always ensure that containers, whether empty or full, or part full, are tightly sealed unless in use.

Avoid breathing product vapour. Use with adequate ventilation. If dealing with a spill covering a large area, and ventilation is impossible or impractical, wear a suitable respirator with an organic vapour cartridge.

Never cut, drill, weld or grind on or near this container. Avoid prolonged contact with skin and wash work clothes frequently. An eye bath and safety shower must be available near the workplace.

10. SPILL PROCEDURES

| | |
|-----------------|---|
| Leak Precaution | dyke to control spillage and prevent environmental contamination |
| Handling Spill | ventilate contaminated area; recover free liquid with suitable pumps; absorb residue on an inert sorbent, sweep & pick up using plastic or aluminium shovel, & store in closed containers for recycling or disposal |

11. DISPOSAL

| | |
|----------------|--|
| Waste Disposal | do not flush to sewer , recycle solvent if possible, may be incinerated in approved facility |
| Containers | Drums should be reused. Recondition and pressure test by a licensed reconditioner prior to re-use. Pails must be vented and thoroughly dried prior to crushing and recycling. IBCs (intermediate bulk containers): polyethylene bottle must be pressure tested & recertified at 30 months. Replace at 60 months (5yrs). Steel containers must be inspected, pressure tested & recertified every 5 years. <i>Never cut, drill, weld or grind on or near this container, even if empty</i> |

12. ENVIRONMENTAL INFORMATION

| | |
|-------------------------|---|
| Bioaccumulation | this product may bioaccumulate, however it is relatively rapidly biodegradable and should not persist |
| Biodegradation | long enough to present this threat |
| Abiotic Degradation | this product degrades readily in the presence of oxygen; rate of degradation unknown |
| Mobility in soil, water | this product reacts with atmospheric hydroxyl radicals; its estimated half-life in air is unknown |
| | this product is water insoluble and migrates slowly readily in soil and water |

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13. TRANSPORT REGULATIONS

| | | |
|-------------------------|----------------------|---|
| <i>Canada TDG</i> | PIN | UN-not regulated for transport |
| | Shipping Name | not regulated for transport |
| | Class | not regulated for transport |
| | Packing Group | not regulated for transport |
| <i>U.S.A. 49 CFR</i> | PIN | NA-1993 |
| | Shipping Name | COMBUSTIBLE LIQUIDS N.O.S. (naphtha) |
| | Class | 3 combustible |
| | Packing Group | III |
| Marine Pollutant | | not a marine pollutant |

14. EMERGENCY INFORMATION

| | | |
|---------------|-------------------------------|-----------------------|
| <i>Canada</i> | Call CANUTEC (collect) | (613) 996-6666 |
| <i>U.S.A.</i> | Call CHEMTREC | (800) 424-9300 |

15. REGULATIONS

| | |
|----------------------|---------------------|
| Canada DSL | on inventory |
| U.S.A. TSCA | on inventory |
| Europe EINECS | on inventory |

OSHA Standards: Permissible Exposure Limit: Table Z-1 8-hr Time Weighted Avg: 500ppm (2900mg/cu m).

Threshold Limit Values: 8 hr Time Weighted Avg (TWA): 100 ppm. Excursion Limit Recommendation: Excursions in worker exposure levels may exceed three times the TLV-TWA for no more than a total of 30 min during a work day, and under no circumstances should they exceed five times the TLV-TWA, provided that the TLV-TWA is not exceeded.

16. PREPARATION INFORMATION

Prepared for Megaloid Laboratories by Peter Bursztyn, (705) 734-1577

Data from RTECS, Haz. Substance Data Base, Cheminfo, manufacturer data, and other source, as available

*Preparation Date: **November 2003** Revision Date: **September 2006***

File Name: Solvent 150

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