

# Mineral Turpentine MSDS

23 September 2015 MSDS V2

FLUIDEN 1520

**MATERIAL SAFETY DATA SHEET** Revision Date : 02.06.2006

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : FLUIDEN 1520

Common Name : White Spirit, Mineral Turpentine

Product use : Solvent

UN number : 1268

Supplier : Engen Petroleum Limited (Tel: 021-403 4911, a/h: 021-403 4099)

Health Emergency Telephone : 021-658 5111 (Red Cross Poison Service)

Transport Emergency Telephone : 011-975 1278/83 (Hazchemwise)

Customer Service Center : 0860 036 436 (Sales and Technical Information)

MSDS Internet website : [www.engen.co.za/content/products/default2.htm](http://www.engen.co.za/content/products/default2.htm)

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name CAS-No. Weight% Symbol

Codes

R-Phrase Numbers

Medium Aliphatic Petroleum Solvent

64742-88-7 75.00 - 85.00

Xn R10, R65

Heavy Aromatic Petroleum Solvent

64742-94-5 15.00 - 25.00

Xn, N R10, R20/22, R36/38

Benzene 71-43-2 < 0.10

F, T R11, R45, R48/23/24/25

See Section 15 for European Label Information.

See Section 8 for Exposure Limits (if applicable).

## 3. HAZARDS IDENTIFICATION

Emergency response data : Colourless Liquid. Flammable. Vapour accumulation could flash and/or explode if in contact with any ignition source. DOT ERG No. : 128

Potential health effects

Inhalation : Respiratory irritation, dizziness, nausea and loss of consciousness.

Skin : Prolonged repeated skin contact with low viscosity materials may defat the skin resulting in possible irritation and dermatitis.

Eye : Practically non-irritating.

Ingestion : Low viscosity material if swallowed may enter the lungs and cause lung damage.

See Section 11 for further health effects/toxicological data.

## 4. FIRST AID MEASURES

Inhalation : Remove from further exposure. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance.

If breathing has stopped, assist ventilation with mechanical device or use mouth-to-mouth resuscitation with a mouthpiece.

Skin contact : Wash contact areas with soap and water. Remove contaminated clothing. Dry wipe exposed skin and cleanse with hand cleaner, soap and water. Launder contaminated clothing before reuse. (See Section

16 - Injection Injury)

FLUIDEN 1520

2

Eye contact : Flush thoroughly with water. If irritation occurs call a doctor.

Ingestion : Seek immediate medical attention. Do not induce vomiting.

Note to doctors : Material if aspirated into the lungs may cause chemical pneumonitis.

Treat appropriately.

## 5. FIRE-FIGHTING MEASURES

Extinguishing media : Carbon dioxide, foam, dry chemical and water fog.

Special fire fighting procedure

: Water spray should only be used to keep fire-exposed containers cool, flush spills away from exposures, disperse vapours and protect personnel attempting to stop leak. Prevent runoff from fire control or dilution from entering streams, municipal sewers, or drinking water supply.

Special protective equipment for firefighters

: For fires in enclosed areas, fire fighters must use Self-Contained Breathing Apparatus.

Unusual fire and explosive hazards

: Flammable. Vapour accumulation could flash or explode if in contact with an open flame.

Products of decomposition : Fumes, smoke and carbon monoxide.

Flash Point : > 35 °C (ASTM D-56)

Upper Explosion Limit : 6.5 %(V)

Lower Explosion Limit : 0.6 %(V)

NFPA Hazard Id : Health: 0; Flammability: 3; Reactivity: 0

#### 6. ACCIDENTAL RELEASE MEASURES

Procedure if material is released or spilled

: Report spills/releases as required to appropriate authorities.

Methods for cleaning up : LAND SPILL: Shut off source taking normal safety precautions. Take measures to minimize the effects on ground water. Recover by shovelling up, or contain spilled material with sand or other suitable absorbent and remove mechanically into containers. If necessary, dispose of absorbed residues as directed in Section 13.

WATER SPILL: Eliminate sources of ignition. Warn occupants and/or ships in the downwind areas of fire and explosion hazard, and warn them to stay clear. Consult an expert for the recovery and disposal of material according to local regulations.

Personal precautions : See Section 8.

Environmental precautions : Prevent spills from entering municipal sewers or drains and contact with soil.

#### 7. HANDLING AND STORAGE

Safe handling advice : Avoid prolonged repeated skin contact. Avoid inhalation of vapours or mists. Use in a well ventilated area away from all ignition sources.

Avoid sparking conditions. Ground and bond all transfer equipment.

Storage information : Store away from all ignition sources in a cool, well ventilated area. This product is a static accumulator, therefore, all storage containers should be grounded and bonded. Drums should also be equipped with self-closing valves, pressure vacuum bungs and flame arresters. Do not store in open or unlabelled containers. Store away from strong oxidizing agents or combustible material.

Storage and handling procedures

: To minimize the risk of fire or explosion from discharges, static and/or vapour accumulation, effectively bond and ground product storage and transfer systems.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits (OELs)

FLUIDEN 1520

3

Components CAS-No. Source TWA Value Notations

Heavy Aromatic

Petroleum Solvent

64742-94-5 ACGIH

525 mg/m<sup>3</sup>

100 ppm

LTEL: Long Term Exposure Limits - Time Weight Average (TWA) over 8 hours.

STEL: Short Term Exposure Limits - Time Weight Average (TWA) over 15 Minutes

Note: Limits Shown for guidance only. Follow applicable regulations.

Personal Protection Equipment (PPE)

Engineering controls : Use in well ventilated area. Explosive-proof ventilation equipment with local exhaust is desirable.

Respiratory protection : Approved respiratory equipment must be used when airborne concentrations are unknown or exceed the recommended exposure limit.

Self-Contained Breathing Apparatus may be required for use in confined or enclosed spaces.

Eye protection : Normal industrial eye protection practices should be employed.

Skin and body protection : Impervious gloves must be worn. Good personal hygiene practices



should always be followed. Good personal hygiene practices should always be followed.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquid.

Colour : Colourless

Odour : Solvent

Solubility : Negligible

Boiling point/range : > 140 °C

Flash Point : > 35 °C (ASTM D-56)

Vapour pressure : < 10 hPa

Density : 0.7870 g/cm<sup>3</sup> @ 20 °C (ASTM D-4052)

Viscosity, kinematic : < 3 mm<sup>2</sup>/s @ 40 °C (ASTM D-445)

#### 10. STABILITY AND REACTIVITY

Stability : Stable

Conditions to avoid : Heat, sparks, flame and build up of static electricity.

Materials to avoid : Strong oxidizers.

Hazardous decomposition products

: Fumes, smoke and carbon monoxide.

#### 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : (Rats): Practically non-toxic (LD50: Greater than 2000 mg/kg). Based on testing of similar products and/or components.

Acute inhalation toxicity : (Rats): Practically non-toxic (LC50: greater than 5mg/l). Based on testing of similar products and/or the components.

Acute dermal toxicity : (Rabbits): Practically non-toxic (LD50: greater than 2000 mg/kg). Based on testing of similar products and/or the components.

Skin irritation : (Rabbits): Irritant. (Primary Irritation Index: greater than 3 but less than 6). Based on testing of similar products and/or the components.

Repeated dose toxicity : Certain straight-run middle distillates have been found to produce skin tumors in laboratory mouse skin-painting tests, but these have usually been associated with a high level of skin irritation. Laboratory tests have  
FLUIDEN 1520

4

indicated that the irritation can produce tumours. Therefore, if the precautions outlined in this MSDS are followed to minimize repeated or prolonged skin contact which could cause irritation, these oils should pose no carcinogenic hazard to humans. Prolonged repeated skin contact with low viscosity materials may defat the skin resulting in possible irritation and dermatitis.

Mutagenicity : Negative in a series of genetic assays and teratological studies.

#### 12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

Biodegradability : Not established.

Physico-chemical removability

: Not established.

Bioaccumulation : Not established.

Ecotoxicity effects

Further information on ecology

Remarks : Toxic to fish, aquatic organisms and wildlife. Do not discharge into lakes, streams, ponds and ground water supply.

#### 13. DISPOSAL CONSIDERATIONS

Waste disposal : Product is suitable for burning in an enclosed, controlled burner for fuel value or disposal by supervised incineration. Such burning may be limited pursuant to the Resource Conservation and Recovery Act. In addition, the product is suitable for processing by an approved recycling facility or can be disposed of at any government approved waste disposal facility. Use of these methods is subject to user compliance with applicable laws and regulations and considerations of product characteristics at time of disposal.

Contaminated packaging : Empty containers retain residue (liquid and/or vapour) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to refill or clean container since residue is difficult to remove. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

Other regulations : Disposal of unused product may be subject to RCRA regulations (40 CFR 261). Disposal of the used product may also be regulated due to ignitability, corrosivity, reactivity, or toxicity as determined by the Toxicity Characteristic Leaching Procedure (TCLP).



Flash Point : > 35 °C (ASTM D-56)

#### 14. TRANSPORT INFORMATION

##### ADR

Proper shipping name : Flammable Liquids n.o.s. (contains PETROLEUM DISTILLATES)

UN number : 1268

Class : 3

Letter : F

Packing group : III

Labelling number : 3

##### CFR

Proper shipping name : Flammable Liquids n.o.s. (contains PETROLEUM DISTILLATES)

FLUIDEN 1520

5

UN number : 1268

Class : 3

Letter : F

Packing group : III

Labelling number : 3

##### IATA\_C

Proper shipping name : Flammable Liquids n.o.s. (contains PETROLEUM DISTILLATES)

UN number : 1268

Class : 3

Letter : F

Packing group : III

Labelling number : 3

##### IMDG

Proper shipping name : Flammable Liquids n.o.s. (contains PETROLEUM DISTILLATES)

UN number : 1268

Class : 3

Letter : F

Packing group : III

Labelling number : 3

Marine pollutant : Marine pollutant

Medical First Aid Guide

(MFAG) table

: 311

Emergency Schedule (EmS)

number

: 3-07

IMDG code page number : 3375

Static Accumulator (50

picosiemens or less)

: Yes

#### 15. REGULATORY INFORMATION

US OSHA Hazard

Communication Standard

: Product assessed in accordance with OSHA 29 CFR 1910.1200 and determined to be hazardous.

Governmental Inventory

Status

: All components comply with TSCA, EINECS/ELINCS, AICS, METI, DSL, KECI, ENCS, PICCS and IECSC.

EU Labelling : Product is dangerous as defined by the European Union Dangerous Substances/Preparations Directives.

Symbols : F, Xn

Flammable, Harmful

R-Phrase(s) : R10, R65, R38, R51/53

Flammable., Harmful: may cause lung damage if swallowed., Irritating to the skin., Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s) : S24, S36/37, S43, S62

Avoid contact with the skin., Wear suitable protective clothing and

gloves., In case of fire use foam/drypowder/carbon dioxide., If

swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Note : Contains straight-run Kerosene.

SARA

U.S. Superfund

Amendments and

Reauthorization Act SARA

Title III

: This product contains no "EXTREMELY HAZARDOUS SUBSTANCES".

SARA (311/312) Reportable



## Hazard Categories

: Fire Chronic Acute

SARA (313) Toxic Release

Chemicals:

: Benzene (71-43-2) - Conc < 0.1 %.

FLUIDEN 1520

6

The following product ingredients are cited on the lists below

Chemical name CAS-No. Concentration [%] List Citations

Medium Aliphatic Petroleum

Solvent

64742-88-7 75.00 - 85.00 18, 19, 20, 21,

23, 25

Heavy Aromatic Petroleum Solvent 64742-94-5 15.00 - 25.00 1, 18, 19, 20,

21, 23, 25

Benzene 71-43-2 < 0.10 1, 2, 4, 6, 9,

10, 16, 17, 18,

19, 20, 21, 22,

23, 24, 25, 26

Regulatory List Searched

1 = ACGIH ALL 6 = IARC 1 11 = TSCA 4 17 = CA P65 22 = MI 293

2 = ACGIH A1 7 = IARC 2A 12 = TSCA 5a2 18 = CA RTK 23 = MN RTK

3 = ACGIH A2 8 = IARC 2B 13 = TSCA 5e 19 = FL RTK 24 = NJ RTK

4 = NTP CARC 9 = OSHA CARC 14 = TSCA 6 20 = IL RTK 25 = PA RTK

5 = NTP SUS 10 = OSHA Z 15 = TSCA 12b 21 = LA RTK 26 = RI RTK

Code Key: CARC = Carcinogen; SUS = Suspected Carcinogen

## 16. OTHER INFORMATION

Note: Engen products do not contain PCBs.

Health studies have shown that many hydrocarbons pose potential human health risks which may vary from person to person. Information provided on this MSDS reflects intended use. This product should not be used for any other applications. In any case, the following advice should be considered:

**INJECTION INJURY WARNING:** If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a doctor as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

Contains straight-run Kerosene.

### DANGER!

**SAFETY:** Keep away from heat and flame. Avoid prolonged or repeated overexposure by skin contact or inhalation. Use with adequate ventilation. Keep container closed. Keep out of reach of children.

**FIRST AID:** If swallowed, call a doctor immediately. Only induce vomiting at the instruction of a doctor.

Never induce vomiting or give anything by mouth to an unconscious person. If inhaled, remove to fresh air.

If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen.

Call a doctor immediately. In case of contact, immediately wash skin with soap and plenty of water. Remove contaminated clothing. Call a doctor if symptoms occur. Wash clothing before reuse.

For industrial use only. Not intended or suitable for use in or around a household or dwelling.

Empty container may contain product residue, including flammable or explosive vapours. Do not cut, puncture, or weld on or near container. All label warnings and precautions must be observed until container has been thoroughly cleaned or destroyed.

### Disclaimer

Information given herein is offered in good faith as accurate, but without guarantee. Conditions of use and suitability of the product for particular uses are beyond our control; all risks of use of the product are therefore assumed by the user and we expressly disclaim all warranties of every kind and nature, including warranties of merchantability and fitness for a particular purpose in respect to the use or suitability of the product. Nothing is intended as a recommendation for uses which infringe valid patents or as extending license under valid patents. Appropriate warnings and safe handling procedures should be provided to handlers and users.

Prepared by : Product Safety Adviser

Health, Safety, Environment and Quality Department

Engen Petroleum Limited

P.O.Box 35, Cape Town, 8000

Telephone : (021) 403 4805 / 4911 (Office Hours)

FLUIDEN 1520

7

