

2221 Ninth Line | Oakville, ON L6H 7G7 Phone: 905-337-7411 | Fax: 905-337-1686

megaloid.ca

# Safety Data Sheet

# 1. PRODUCT IDENTIFICATION

Name Odourless Mineral Spirits

Synonyms isoparaffinic hydrocarbon; hydrotreated aliphatic petroleum naphtha

CAS# 64742-48-9 or 64742-47-8 & others

Europe EC# 265-150-3 or 265-149-8

Product Uses odourless hydrocarbon solvent, light lubricant, "vanishing" oil

# 2. HAZARDS

Canada – WHMIS B 3

**Key:**  $B 2 - Flash \ Point < 38^{\circ}C, B 3 - Flash \ Point > 38^{\circ}C \ & < 93^{\circ}C$ 

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

C – Oxidising Substance, E – Corrosive, F – Reactive Substance



**GHS Symbols** 

 $LD_{50}$  (mg/kg)

**GHS Class (Category)** 

aspiration (2) flammable (3)
Signal Words WARNING WARNING

**Hazard Statements** may be harmful flam

if swallowed & enters airways

(H305)

flammable liquid and vapour (H226)



LD<sub>50</sub> (mg/kg)



LC<sub>50</sub> ppm

3. COMPOSITION

 mg/m³
 ORAL
 SKIN
 INHALATION

 Odourless Mineral Spirits
 100%
 175 / 1200
 >5000
 >2000
 >5200

TWAEV / TLV

4. FIRST AID

SKIN: Wash with soap & plenty of water. Remove contaminated clothing and do not reuse until thoroughly

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. FIRE FIGHTING & FLAMMABILITY

Flash Point above 50°C / 122°F (closed cup)

Autoignition Temperature  $350^{\circ}\text{C} / 660^{\circ}\text{F}$ Flammable Limits 1.2% - 9.3%

Combustion Products carbon monoxide, nitrogen oxides, smoke, part oxidised hydrocarbon fragments

Firefighting Precautions foam, dry chemical, water fog or spray to cool, product floats on water – water jet spreads

flames; firefighters must wear SCBA

Static Charge Accumulation readily accumulates a static charge on agitation or pumping

### 6. ACCIDENTAL RELEASE MEASURES

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,

shovel & store in closed containers for recycling or disposal

# 7. HANDLING & STORAGE

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

This product is a static accumulator, but its flash point is high & accidental ignition is unlikely. Nevertheless, ground or electrically bond the source container, receiving container and transfer pump before transferring contents. Avoid splashing by keeping the product nozzle below the surface in the receiving container. Empty containers may contain a flammable or explosive vapour. Always ensure that containers, whether empty or full, or part full, are tightly sealed unless in use.

Avoid generating or breathing product vapour or mist. If vapour or mist form in use, install adequate ventilation to meet limits for oily mists (see Part 8, below).

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

### 8. EXPOSURE CONTROL & PERSONAL PROTECTION

No listing for this product; limits for Mineral Oil Mist:

Ontario TWAEV 5mg/m<sup>3</sup> STEV 10mg/m<sup>3</sup> ACGIH TLV not listed STEL not listed

OSHA PEL 5mg/m<sup>3</sup> not listed

NIOSH 5mg/m<sup>3</sup> STEL 10mg/m<sup>3</sup>

For Hydrotreated Kerosene (similar product):

Ontario TWAEV 200mg/m<sup>3</sup> STEV not listed ACGIH TLV 200mg/m<sup>3</sup> STEL not listed

Ventilation engineering procedures should be in place to prevent mist formation; if mist forms in use, install local point

source exhaust ventilation

Hands no special protective gloves required; "Viton" gloves may be worn

Eyes safety glasses with side shields – *always protect the eyes* 

Clothing no special protective clothing required

### 9. PHYSICAL PROPERTIES

Odour & Appearance clear, colourless liquid with almost no odour

Odour Threshold not known – odour is no guide to the presence of spilled product

Vapour Pressure 0.8mmHg / 0.1kPa (20°C / 68°F)

Evaporation Rate (Butyl Acetate = 1) 0.1 Vapour Density (air = 1)  $\sim 5$ 

continued on next page . . .

# PHYSICAL PROPERTIES, cont'd

170-205°C / 338-401°F **Boiling Range** 

Freezing Point -60°C / -76°F Specific Gravity 0.76 (20/20°C)

~1 milligram per litre 20°C / 68°F Water Solubility

Also soluble in most organic solvents, low solubility in glycols, methanol, ethanol

Partition Coefficient (Octanol/H<sub>2</sub>O) 2-6 – typical range for mineral naphthas

Viscosity 1.84centistokes (25°C / 77°F)

none – (does not liberate hydrogen ions when dissolved) рΗ

Molecular Weight 150grams per mole (approximately)  $1ppm = 6.85mg/m^3$  (approximately) Conversion Factor

NOTE: The above physical properties are adapted from actual sales specifications, and not from the general specifications of

CAS# 64742-48-9 & CAS# 64742-47-8.

### 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

#### **TOXICITY** 11.

Effects, Acute Exposure

Skin Contact may be slightly irritating on long exposure Skin Absorption slight; no toxic effects likely by this route

**Eve Contact** may be slightly irritating

Inhalation may irritate but low vapour pressure makes this action unlikely; high vapour concentrations

(eg: by heating product) may cause central nervous depression

ingestion of 100+ml may cause transient diarrhoea – not a route of industrial exposure Ingestion

Effects, Chronic Exposure

prolonged exposure may exacerbate existing dermatitis; in rats, ingestion of 2500-5000mg/kg/day for General

13 weeks caused changes in blood, liver, kidneys & adrenal gland; not relevant to industrial

exposure

Sensitising not a sensitiser in humans or animals

Carcinogen/Tumorigen not considered a tumorigen or a carcinogen in humans or animals

no known effect in humans or animals Reproductive Effect Mutagen no known effect on humans or animals

Synergistic With not known

LD<sub>50</sub> (oral) >5000, >6000 & >15,000mg/kg (rat) – no mortality at 2 lower doses; (a) 15,000mg/m<sup>3</sup>, not stated

>2000 & >3160mg/kg (rabbit) – no mortality in these tests LD<sub>50</sub> (skin) >5200,  $>8500 \& >12,000 \text{mg/m}^3$  (rat) – no mortality in these tests LC<sub>50</sub> (inhalation)

#### 12. **ECOLOGICAL INFORMATION**

Bioaccumulation poorly absorbed; not a bioaccumulator

biodegrades in the presence of oxygen; rate of biodegradation varies widely: 30% in 3days, Biodegradation

42% in 21days, 99% in 28days; similar products have also shown lower rates 2% to 12% in 28 days

not known – will not photolyse directly; attacked by airborne hydroxyl radicals; for hydrocarbons of Abiotic Degradation

similar carbon chain length & configuration, ½-life in air 0.5-2.0 days

Mobility in soil, water this product is water insoluble and cannot move readily in soil and water

continued on next page . . .

# ECOLOGICAL INFORMATION, cont'd

(Data for CAS# 64742-48-9 & 64742-47-8 are combined below.) **Aquatic Toxicity** 

18-19, 45, 2200 & >10,000mg/litre (Pimephelas promelas), 1740mg/litre (Lepomis macrochirus) LC<sub>50</sub> (Fish, 96hr)

>8000mg/litre (Tilapia mossambica)

4720mg/litre (Dendronereides heteropoda), 4.3mg/litre (Crangon crangon), EC<sub>50</sub> (Crustacea, 48hr)

2.6mg/litre (Chaetogammarus marinus)

EC<sub>50</sub> (Algae) no data EC<sub>50</sub> (Bacteria) no data

Aquatic toxicity data vary widely. This may be due to the very low water solubility & the methods used to mix the product with water.

# **DISPOSAL**

do not flush to sewer, recycle solvent if possible, may be incinerated in approved facility Waste Disposal

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.

Never cut, drill, weld or grind on or near this container, even if empty

#### TRANSPORT CLASSIFICATION 14.

Canada TDG PIN UN-1268

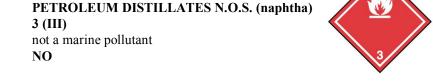
AND **Shipping Name** PETROLEUM PRODUCTS N.O.S. (naphtha)

OR

U.S.A. 49 CFR **Class & Packing Group** 

**Marine Pollutant** 

**ERAP Required** 



### **EMERGENCY INFORMATION**

Canada Call CANUTEC (collect) (613) 996-6666 U.S.A. **Call CHEMTREC** (800) 424-9300

#### 15. REGULATIONS

Canada DSL on inventory U.S.A. TSCA on inventory **Europe EINECS** on inventory



**Europe Classification** Harmful

**Europe Risk Phrases** R: 65 – Harmful; may cause lung damage if swallowed.

**Europe Safety Phrases** S: 23, 62 – Do not breathe vapour or spray (mist). If swallowed, do not induce vomiting; seek

medical

advice and show this document.

#### **OTHER INFORMATION 16.**

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

Data from RTECS, HSDB (Haz. Substance Data Base), Cheminfo (CCOHS), IUCLID Datasheets (ESIS – European Chem. Substance Info. System), & others.

Preparation Date: March 2004 Revision Date: April 2007, April 2010, April 2013