Established in 1981 megaloid laboratories limited
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Safety Data Sheet

1. PRODUCT INDENTIFICATION

Name	**Aromatic 200**
Synonyms	**heavy aromatic solvent naphtha**
CAS#	**64742-94-5**
Europe EC#	**265-298-5**
Product Uses	**diluent, solvent, fuel**

2. HAZARDS

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

Canada – WHMIS	**not controlled under WHMIS**
Key:	***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,* ***F*** *– Reactive Substance*
U.S.A. – HMIS	**Health – 1, Fire – 2, Reactivity – 0**
Key:	***0****=minimal,* ***1****=slight,* ***2****=moderate,* ***3****=serious,* ***4****=severe*

3. COMPOSITION

	%	TWAEV / TLV mg/m^3	LD_{50} (mg/kg) ORAL	LD_{50} (mg/kg) SKIN	LC_{50} ppm/mg/m^s INHALATION
Heavy Aromatic Naphtha	100%	15 / 100*	7050	3160	88.5 / 590

**** Manufacturer's recommendation. Aromatic 200 may also contain naphthalene 91-20-3 – recommended regulated limit: 10ppm / 52mg/m^3.***

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	95°C / 203°F (Pensky-Martens closed cup)
Autoignition Temperature	491°C / 916°F
Flammable Limits	0.7% – 5.3%
Combustion Products	carbon monoxide, nitrogen oxides, smoke, part oxidised hydrocarbon fragments
Fire Fighting Precautions	foam, dry chemical, water fog or spray to cool & dilute, water jet may spread flames; Fire fighters must wear SCBA
Static Charge Accumulation	accumulates a static charge on agitation or pumping: *high flash point makes ignition unlikely*

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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, dry environment, away from sources of ignition, heat and oxidising agents.

Despite a high flash point, the manufacturer recommends grounding or electrically bonding the source container, receiving container, & transfer when transferring contents. Avoid splashing by keeping the product nozzle below the surface in the receiving container. Always ensure that containers, whether empty or full, are tightly sealed unless in use.

Avoid breathing product vapour. Use with adequate ventilation. 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.

8. EXPOSURE CONTROL & PERSONAL PROTECTION

Ontario TWAEV	not listed – manufacturer recommends 15ppm / 100mg/m^3
ACGIH TLV	not listed – manufacturer recommends 15ppm / 100mg/m^3
OSHA PEL	400ppm
STEL	not listed
	may contain less than 1% naphthalene CAS# 91-20-3: regulated limit 10ppm / 52mg/m^3
Ventilation	mechanical ventilation may be required to control airborne titre; depending on handling procedures
Hands	nitrile or "Viton" gloves recommended – *other types may also protect; consult supplier to confirm suitability*
Eyes	safety glasses with side shields – *always protect the eyes*
Clothing	wear impermeable (above) apron, boots, & long sleeves if there is any danger of splashing,

9. PHYSICAL PROPERTIES

Odour & Appearance	clear, pale yellow liquid with mild aromatic (kerosene) hydrocarbon odour
Odour Threshold	not known
Vapour Pressure	0.075mmHg / 0.01kPa (20°C / 68°F)
Evaporation Rate (*Butyl Acetate = 1*)	below 0.01
Vapour Density (air = 1)	5.7
Boiling Range	232-275°C / 450-527°F
Freezing Point	-19°C / -2°F
Specific Gravity	0.99-1.0 (15.6/15.6°C)
Water Solubility	1milligramsper litre (20°C / 68°F)
Also soluble in	most organic solvents
Viscosity	2.7centipoise (25°C / 77°F)
pH	none – (*does not liberate hydrogen ions when dissolved*)
Conversion Factor	1ppm = 6.7g/m^3 – *based on average molecular weight (below)*
Molecular Weight	160 grams per mole – *mixture, average value for product from one manufacturer*

10. REACTIVITY

Dangerously Reactive With	strong oxidising agents
Also Reactive With	concentrated nitric or sulphuric acids
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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11. TOXICITY

Effects, Acute Exposure

Skin Contact	little to no effect
Skin Absorption	slight; no toxic effects likely by this route
Eye Contact	may be slightly irritating; may cause temporary blurred vision
Inhalation	headache, dizziness, drowsiness, intoxication, but only at very high vapour or mist titre
Ingestion	poorly absorbed; may cause a (temporary) laxative effect

Effects, Chronic Exposure

General	prolonged exposure may cause dermatitis; may damage liver & kidneys
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)	7050mg/kg (rat) – *for Solvesso 200, Exxon Antwerp*
LD_{50} (skin)	3160mg/kg (rabbit) – *for Solvesso 200, Exxon Antwerp*
LC_{50} (inhalation)	590mg/m^3 (rat) – *RTECS data*; 170mg/m^3 – *for Solvesso 200, Exxon Antwerp*

12. ECOLOGICAL INFORMATION

Bioaccumulation	may be a bioaccumulator
Biodegradation	degrades readily & rapidly in the presence of oxygen; ½-life 1.2-1.6days near soil surface & 30-60days in deeper layers; 30-40% biodegradation in 28 days (in sewage sludge)
Abiotic Degradation	reacts with atmospheric hydroxyl radicals; estimated ½-life in air is 0.1-0.7 days (*for major constituent molecules of Aromatic 200*)
Mobility in soil, water	water insoluble; moves slowly in soil and water
Aquatic Toxicity	
LC_{50} (Fish, 96hr)	41-50mg/litre (Pimephelas promelas), 19mg/litre (Pimephelas promelas – *water soluble fractions only*) 2.3mg/litre (Oncorhynchus mykiss), 1740mg/litre (Lepomis macrochirus), 8000mg/litre (Tilapia mossambica) – *tests on various naphthas similar to Aromatic 200; methods of emulsifying product into water differ . . .*
LC_{50} (Crustacea, 48hr)	0.95mg/litre (Daphnia magna), 4720mg/litre (Dendronereides heteropoda),
EC_{50} (Plankton, 96hr)	140mg/litre (Diatomus forbesi), 11,280mg/litre (Namalycastis indica)
EC_{50} (Algae, 72hr)	<1 & 2.5mg/litre (Skeletonema costatum), 6mg/litre (Anabena doliolum)
EC_{50} (Bacteria)	no data

NOTE: *The variable results (above) may reflect the water insolubility of Aromatic 200 & the difficulty of suspending it in water. A large spill in protected waters may spread on the water surface, depriving animal life of oxygen. In open water, wave action should prevent this.*

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

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14. TRANSPORT CLASSIFICATION

Canada TDG	**PIN**	**UN – not regulated for transport**
AND	**Shipping Name**	**not regulated for transport**
U.S.A. 49 CFR	**Class & Packing Group**	**not regulated for transport**
Marine Pollutant		**not a marine pollutant**
ERAP Required		**NO**

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, 24, 62 –** *Do not breathe fumes, vapour or spray. Avoid contact with skin. If swallowed, do not induce vomiting; seek medical help immediately.*

16. OTHER INFORMATION

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: ***September 2012*** *Revised:* ***September 2012***

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