

Material Safety Data for: Aromatic 200

1. PRODUCT IDENTIFICATION

Name	Aromatic 200 Solvent
Synonyms	heavy aromatic solvent naphtha
CAS#	64742-94-5
Product Uses	diluent, solvent, fuel

2. INGREDIENTS

	%	TWAEV / TLV mg/m ³	LD ₅₀ ORAL	(mg/kg) SKIN	LC ₅₀ ppm / mg/m ³ 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/m³.*

3. (a) HAZARDS SUMMARY

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

Canada – WHMIS

Key:

not controlled under WHMIS

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	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

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

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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, pale yellow liquid with mild aromatic hydrocarbon odour
Odour Threshold	not known
Vapour Pressure	0.075mmHg / 0.01kPa (20°C / 68°F)
Evaporation Rate (<i>Butyl Acetate = 1</i>)	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	1milligramper litre (20°C / 68°F)
Also soluble in	most organic solvents
Viscosity	2.7centipoise (25°C / 77°F)
pH	none – (<i>does not liberate hydrogen ions when dissolved</i>)
Conversion Factor	1ppm = 6.7g/m ³ ** – based on average molecular weight
Molecular Weight	160 grams per mole – mixture, average value

6. FLAMMABILITY & FIRE FIGHTING

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, water spray only to cool & dilute, water jet may spread flames;
	Fire fighters must wear SCBA
Static Charge Accumulation	may accumulate a static charge on agitation or pumping: <i>high flash point – ignition unlikely</i>

7. STABILITY / 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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8. PROTECTIVE EQUIPMENT / EXPOSURE CONTROL

ACGIH TLV	not listed – manufacturer recommends 15ppm / 100mg/m ³
OSHA PEL	not listed – may contain below 1% naphthalene CAS# 91-20-3: regulated limit 10ppm / 52mg/m ³
STEL	not listed
Ventilation	mechanical ventilation probably not required due to very low vapour pressure
Hands	no special hand protection required; “Viton” gloves may be worn
Eyes	safety glasses with side shields – <i>always protect the eyes</i>
Clothing	wear impermeable (above) apron, boots, & long sleeves if there is any danger of splashing

9. HANDLING & STORAGE

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

The manufacturer recommends grounding or electrically bonding the source container the receiving container, and the transfer pump before transferring contents. Avoid splashing by ensuring that the product nozzle is below the surface in the receiving container. 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. 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 sand or clay, sweep, 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 be a bioaccumulator
Biodegradation	this product degrades readily and rapidly in the presence of oxygen; ½-life 1.2-1.6 days near the soil surface and 30-60days in the deep layers; 30-40% biodegradation in 28 days (in sewage sludge)
Abiotic Degradation	this product reacts with atmospheric hydroxyl radicals; estimated ½-life in air is 0.1-0.7 days (<i>for the major constituent molecules of Aromatic 200</i>)
Mobility in soil, water	this product is water insoluble and does not move slowly in soil and water
Aquatic Toxicity	
LC ₅₀ (Fish, 96hr) (leptomis)	41-45 & 50mg/litre (pimephelas promelas), 2.3mg/litre (oncorhynchus mykiss), 1740mg/litre macrochirus), 8000mg/litre (tilapia mossambica) – <i>tests on various naphthas similar to Aromatic 200</i>
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)

NOTE: The variable results (above) may reflect the water insolubility of Aromatic 200 the difficulty of suspending it in water.

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13. TRANSPORT REGULATIONS

<i>Canada TDG</i>	PIN	UN-not regulated for transport
<i>AND</i>	Shipping Name	not regulated for transport
<i>U.S.A. 49 CFR</i>	Class	not regulated for transport
<i>ine Pollutant</i>	Packing Group	not regulated for transport
		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

<i>Canada DSL</i>	on inventory
<i>U.S.A. TSCA</i>	on inventory
<i>Europe EINECS</i>	on inventory (EC# 265-198-5)

16. PREPARATION INFORMATION

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

File Name: 200

With data from RTECS, Haz. Substance Data Base, Cheminfo (CCOHS), IUCLID Datasheets (European Chem. Substance Info. System), & others, as available

Preparation Date: November 2003 Revision Date: August 2006, September 2009

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