

Section 1. Chemical Product and Company Identification

Trade name	ALON Aromatic Solvent - 104, AAS - 104	Code	327, 328, 4166
Supplier	Alon USA LP P.O. Box 1311 Big Spring, TX 79721	MSDS#	P54
		Validation Date	12/04/2012
Synonym	Heavy Aromatic Naptha	Print Date	12/04/2012
MSDS Name	ALON Aromatic Solvent - 104 - 104B	Responsible for Preparation	Safety Director ALON USA BSR
Chemical Family	Aromatic Hydrocarbon Mixture		
CAS Registry Number	64741-68-0		
Threshold Limit Value	TWA: 10 ppm from ALON		
	Consult local authorities for acceptable exposure limits.		
Manufacturer	Alon USA LP P.O. Box 1311 Big Spring, TX 79721		

In Case of Emergency **Chemtrec:**
(800) 424-9300
ALON:
(432) 263-9272

Technical Information **ALON:**
(432) 263-9272

Section 2. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits
1) Heavy catalytic reformed naphtha (petroleum)	64741-68-0	100	TWA: 10 ppm from ALON

Section 3. Hazards Identification

Physical State and Appearance	Liquid.
Emergency Overview	COMBUSTIBLE LIQUID AND VAPOR. CONTAINS MATERIAL WHICH MAY CAUSE NERVOUS SYSTEM, DIGESTIVE SYSTEM, SKIN, EYES DAMAGE. MAY CAUSE EYE IRRITATION. MAY CAUSE SKIN IRRITATION.
Routes of Entry	Absorbed through skin. Dermal contact. Eye contact. Inhalation. Ingestion.
Potential Acute Health Effects	<p><i>Eyes</i> Hazardous in case of eye contact (irritant). Conjunctiva irritation.</p> <p><i>Skin</i> This product may irritate eyes and skin upon contact.</p> <p><i>Inhalation</i> Dizziness, drowsiness, and eye irritation.</p> <p><i>Ingestion</i> Throat and stomach burning sensation. Possible pneumonia if vomited.</p>
Potential Chronic Health Effects	CARCINOGENIC EFFECTS: Not a known carcinogen by NTP, IARC, or OSHA. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available..
Medical Conditions Aggravated by Overexposure	Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.
Overexposure /Signs/Symptoms	Signs and symptoms of chronic exposure are similar to those of acute exposure. Skin: Dermatitis. Eye: Conjunctiva irritation.
See Toxicological Information (Section 11)	

Section 4. First Aid Measures

Eye Contact	Flush with large amounts of water. If redness persists, get medical attention.
Skin Contact	If the chemical got onto the clothed portion of the body, remove the contaminated clothes as quickly as possible. Wash contaminated skin with soap and water.
Inhalation	Allow the victim to rest in a well-ventilated area. Seek immediate medical attention.
Ingestion	DO NOT induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.
Notes to Physician	Not available.

Section 5. Fire Fighting Measures

Flammability of the Product	COMBUSTIBLE.
Auto-ignition Temperature	Not Available.
Flash Points	CLOSED CUP: >37.8°C (100°F). (Tagliabue.).
Flammable Limits	Not available.
Products of Combustion	These products are carbon oxides (CO, CO2).
Fire Hazards in Presence of Various Substances	Combustible in presence of open flames, sparks, heat, oxidizing materials.
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not expected. Risks of explosion of the product in presence of static discharge: Possible. No specific information is available in our database regarding the product's risks of explosion in the presence of various materials.
Fire Fighting Media and Instructions	Combustible liquid, insoluble in water. SMALL FIRE: Use DRY chemical powder, CO2, and halon. LARGE FIRE: Use water spray or fog.
Protective Clothing (Fire)	Wear MSHA/NIOSH approved self-contained breathing apparatus or equivalent and full protective gear (Bunker gear).
Special Remarks on Fire Hazards	No additional remark.
Special Remarks on Explosion Hazards	No additional remark.

Section 6. Accidental Release Measures

Small Spill and Leak	Absorb with an inert material and put the spilled material in an appropriate waste disposal.
Large Spill and Leak	Contain spill and safely stop the flow. Warn personnel to move away. Eliminate all sources of ignition. Ventilate. Absorb with an inert material (sand) and put the spilled material in an appropriate waste disposal.

Section 7. Handling and Storage

Handling	Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. DO NOT ingest. Do not breathe gas, fumes, vapor or spray. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents.
Storage	Keep container tightly closed. Keep in a cool and well-ventilated area.

Section 8. Exposure Controls/Personal Protection

Engineering Controls Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection

Eyes Splash goggles. Safety glasses.

Body Lab coat.

Respiratory

Use a MSHA/NIOSH approved respirator or equivalent at high concentrations.

Hands Chemical resistant gloves.

Feet Not applicable.

Protective Clothing (Pictograms)**Personal Protection in Case of a Large Spill**

Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Product Name**Exposure Limits**

1) Heavy catalytic reformed naphtha (petroleum)

TWA: 10 (ppm) from FINA

Consult local authorities for acceptable exposure limits.

Section 9. Physical and Chemical Properties

Physical State and Appearance	Liquid.	Odor	Aromatic.
Molecular Weight	Not applicable.	Taste	Not available.
Molecular Formula	Not applicable.	Color	Straw color.
pH (1% Soln/Water)	Not applicable.		
Boiling/Condensation Point	160 to 246.5°C (320 to 475.7°F)		
Melting/Freezing Point	Not available.		
Critical Temperature	Not available.		
Specific Gravity	0.88 (Water = 1)		
Vapor Pressure	<1 mm of Hg (@ 20°C) Reid Vapor Pressure		
Vapor Density	4.5 (Air = 1)		
Volatility	100% (v/v).		
Odor Threshold	Not available.		
Evaporation Rate	Not available.		
VOC	100 (%)		
Viscosity	Not available.		
LogK_{ow}	Not available.		
Ionicity (in Water)	Not available.		
Dispersion Properties	Not available.		
Solubility in Water	Negligible.		
Physical Chemical Comments	No additional remark.		

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Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Conditions of Instability	No additional remark.
Incompatibility with Various Substances	Incompatible with strong oxidizing agents.
Hazardous Decomposition Products	Carbon monoxide & carbon dioxide
Hazardous Polymerization	No.

Section 11. Toxicological Information

Toxicity to Animals	Acute oral toxicity (LD50): 4800 mg/kg [Rat]. Somnolence (general depressed activity), gastrointestinal hypermotility, and diarrhea are toxic effects.
Chronic Effects on Humans	CARCINOGENIC EFFECTS: Not a known carcinogen by NTP, IARC, or OSHA. TERATOGENIC EFFECTS: Classified NONE for human. DEVELOPMENTAL TOXICITY: Not available. The substance is toxic to the nervous system, digestive system, skin, eyes.
Other Toxic Effects on Humans	Hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation. Slightly hazardous in case of skin contact (permeator), of ingestion.
Special Remarks on Toxicity to Animals	In the skin Standard Draize Test, 500 mg application resulted in a severe reaction. In a multiple dose inhalation test at a dose of 10g/m ³ /6hr/3W intermittent, the toxic effects were corneal damage, coma, and death
Special Remarks on Chronic Effects on Humans	No additional remark.
Special Remarks on Other Toxic Effects on Humans	Possible cardiac and dermal sensitizer.

Section 12. Ecological Information

Ecotoxicity	Not available.
BOD5 and COD	Not available.
Biodegradable/OECD	Not available.
Mobility	Not available. Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation	The products of degradation are less toxic than the product itself.
Special Remarks on the Products of Biodegradation	No additional remark.

Section 13. Disposal Considerations

Waste Information	Recover free liquid. Transfer to a safe disposal area in accordance with federal, state, and local regulations.
Waste Stream	Not available.
Consult your local or regional authorities.	

Section 14. Transport Information

DOT Classification	DOT CLASS: Combustible liquid with a flash point greater than 37.8°C (100°F).
DOT Proper Shipping Name	Petroleum distillates n.o.s.
UN Number	UN1268
Packaging Group	III



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USCG Proper Shipping Name Naphtha: Aromatic

Marine Pollutant Not available.

Hazardous Substances Reportable Quantity Not available.

Special Provisions for Transport No additional remark.

TDG Classification TDG CLASS 3: Flammable liquid.

ADR/RID Classification ADR CLASS 3: Flammable liquid A.

IMO/IMDG Classification IMDG CLASS 3.3: Flammable liquid (high flash point).

ICAO/IATA Classification IATA CLASS 3: Flammable liquid.

Section 15. Regulatory Information

HCS Classification HCS CLASS: Target organ effects.
HCS CLASS: Combustible liquid having a flash point between 37.8°C (100°F) and 93.3°C (200°F).

U.S. Federal Regulations TSCA 8(b) inventory: ALON Aromatic Solvent - 104
SARA 302/304/311/312 extremely hazardous substances: No products were found.
SARA 302/304 emergency planning and notification: No products were found.
SARA 302/304/311/312 hazardous chemicals: No products were found.
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.
SARA 313 toxic chemical notification and release reporting: No products were found.
Clean water act (CWA) 307: No products were found.
Clean water act (CWA) 311: No products were found.
Clean air act (CAA) 112 accidental release prevention: No products were found.
Clean air act (CAA) 112 regulated flammable substances: No products were found.
Clean air act (CAA) 112 regulated toxic substances: No products were found.

International Regulations

WHMIS (Canada) WHMIS CLASS B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).
WHMIS CLASS D-2A: Material causing other toxic effects (VERY TOXIC).

CEPA DSL: ALON Aromatic Solvent - 104

EINECS Not available.

DSCL (EEC) R10- Flammable.
R45- May cause cancer.
R36/38- Irritating to eyes and skin.

International Lists No products were found.

State Regulations No products were found.
California prop. 65: No products were found.

Section 16. Other Information

Label requirements COMBUSTIBLE LIQUID AND VAPOR.
CONTAINS MATERIAL WHICH MAY CAUSE NERVOUS SYSTEM, DIGESTIVE SYSTEM, SKIN, EYES DAMAGE.
MAY CAUSE EYE IRRITATION.
MAY CAUSE SKIN IRRITATION.

Hazardous Material Information System (U.S.A.)

Health	*	2
Fire Hazard		2
Reactivity		0
Personal Protection		h

National Fire Protection Association (U.S.A.)



References LOLI (Vol 13 7/31/98) AND TOMES (Vol 37: RTECS)

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**Other Special
Considerations**

No additional remark.

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