



Material Safety Data Sheet

Lab-Solvent

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Lab-Solvent
CAS Number: NE
Chemical Family: Thinner for Lab-Metal, Metal cleaner
MSDS Number: 746
Product Code: 20102, 20103, 20104

Product/Material Uses

Lab-solvent cuts grease, oil and dirt, and is recommended as a metal cleaner and degreaser to prepare surfaces for Lab-metal and Hi-Temp Lab-metal applications. Removes paint quickly and efficiently.

Lab-solvent thins Lab-metal to paint consistency for brushing or spraying a metallic coating. To prevent hardening of Lab-metal and Hi-Temp Lab-metal, after each use, add a capful of Lab-solvent and cover tightly.

2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	CAS Number	Percentage of Total Weight
ACETONE	67-64-1	40 - 60
TOLUENE	108-88-3	40 - 60

EMERGENCY OVERVIEW:

CONTAINS: Toluene (CAS 108-88-3); Acetone (CAS 67-64-1). VAPOR HARMFUL. MAY AFFECT THE BRAIN OR NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. CAUSES EYE, SKIN, LUNG, NOSE AND THROAT IRRITATION.

NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Keep away from heat, sparks and open flame. VAPORS MAY CAUSE FLASH FIRE. Do not smoke. Extinguish all flames and pilot lights, and turn off stoves, heaters, electric motors and other sources of ignition during use and until all vapors are gone. Prevent build-up of vapors by opening all windows and doors to achieve cross-ventilation. Close container after each use. **Use only with adequate ventilation.** Do not breathe vapors. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during and after application unless air monitoring demonstrates vapor levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. **WARNING:** This product contains a chemical known to the State of California to cause cancer and birth defects, or other reproductive harm.

KEEP OUT OF REACH OF CHILDREN.

3. HAZARDS IDENTIFICATION

Primary Routes(s) Of Entry

Inhalation, Skin absorption, Skin contact, Eye contact

Eye Hazards

Direct contact and exposure to vapors is irritating to mucous membranes and the eyes, possibly causing stinging, tearing, redness and swelling of the eyes. Direct eye contact with product or high vapor concentrations may cause possible corneal damage.

Skin Hazards

Contact may cause mild to moderate skin and mucous membrane irritation. Prolonged skin contact may defat the skin and produce dermatitis. Possible symptoms include redness, burning, drying and cracking of the skin. Absorption of this material through the skin is possible. But it is unlikely that harmful amounts will be absorbed from a single, brief exposure. Absorption of large amounts from prolonged exposure may produce central nervous system depression and effects similar to those from inhalation.

Ingestion Hazards

Accidental swallowing of minute amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. Aspiration into the lungs after swallowing or vomiting can result in lung inflammation, lung injury and even death due to chemical pneumonia, respiratory failure and cardiac arrest. Ingestion may also cause irritation of the gastrointestinal tract and other systemic effects from absorption. Possible symptoms could include: nausea, vomiting, diarrhea, central nervous system depression (dizziness, drowsiness, weakness, fatigue, headache, unconsciousness), muscle weakness, loss of coordination, coma, confusion, or possibly death. Kidney and liver damage may follow ingestion.



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Inhalation Hazards

Inhalation of low vapor concentrations under normal conditions of handling is not likely to cause harmful effects. Inhalation of high concentrations for brief periods may cause irritation to the nose, throat and lungs, and central nervous system effects.

Prolonged or intentional exposure may lead to the damage of many organ systems, including the central and peripheral nervous system, vision, hearing, liver, kidneys, lungs, heart and blood. Symptoms may include: headache, dizziness, drowsiness, loss of coordination, fatigue, headache, irritation, nausea, vomiting, sleep disturbance, and mental confusion. Overexposures to components of this product have been associated with permanent brain and central nervous system damage, cardiac sensitization and kidney damage.

Subchronic (Target Organ Effects)

Exposure may result in the following: reversible effects upon the liver, renal, nervous systems. Additionally, the kidneys, heart, blood and peripheral systems may be affected. The nervous system appears to be the most sensitive. At high concentrations, some possible symptoms may appear: in coordination, ataxia, unconsciousness, cardiac sensitization, respiratory tract damage, effects on hearing, central nervous system damage and possibly death.

Chronic/Carcinogenicity Effects

This material is not expected to cause cancer in humans.

Teratogenicity (Birth Defects)

Components of this product have been toxic to the fetus of laboratory animals at doses toxic to the mother, and have caused birth defects when dosed orally. The significance of animal data to human exposure is unknown. Prolonged intentional abuse of toluene during pregnancy can cause birth defects in humans.

Conditions Aggravated By Exposure

Individuals with diseases of the respiratory tract, skin, liver, kidneys, eyes and nervous system should avoid exposure. Those persons susceptible to dermatitis should limit exposure.

4. FIRST AID MEASURES

Eye

In case of eye contact, blot away excess chemical from around the eyes. Hold eyelids apart and immediately flush eyes with plenty of luke warm, gently flowing water for at least 15 minutes. Get medical attention.

Skin

Remove contaminated clothing and shoes. Wash affected areas with soap and water. Get medical attention immediately if irritation (redness, rash, blistering) develops. Wash clothing before reuse.

Ingestion

If swallowed, DO NOT INDUCE VOMITING unless directed to do so by medical personnel. CALL A PHYSICIAN OR THE POISON CONTROL CENTER IMMEDIATELY.

If the victim stops breathing: Wipe away any remaining materials off the lips. Clear the airway and administer artificial respiration. If the victim is conscious: Have the person rinse his/her mouth several times with cold water and spit out. Lean the person forward to reduce risk of aspiration. Have the person drink 8 to 10 oz. of water to dilute. If possible, give a mixture of 2 tablespoons of activated charcoal with water to drink. Repeat administration of water. Keep the person warm and quiet. Never give anything by mouth to an unconscious victim or a person losing consciousness.

Inhalation

Remove the person away from exposure to fresh air. Keep the victim warm and quiet. Support breathing as necessary. Administer cardiopulmonary resuscitation if pulse has stopped. Get medical attention immediately.

Note to Physician

Inhalation of high concentrations of this product, as could occur in enclosed spaces or during deliberate abuse, may be associated with cardiac arrhythmias. This material is an aspiration hazard. The potential danger from aspiration must be weighed against possible oral toxicity.

5. FIRE FIGHTING MEASURES

Flash Point: est. 23 to 55 °F

Flammability Class: IB

Fire and Explosion Hazards

FLAMMABLE. DO NOT USE NEAR FIRE OR FLAME. Vapor may cause flash fire.

Vapors may accumulate in confined spaces (e.g., pits, sumps, sewers) and inadequately ventilated areas. Vapors may travel to areas (rooms) away from worksite before igniting/flashing back to vapor source. Do not reuse container. Keep away from heat, sparks, open flame and other ignition sources. In the presence of an ignition source, containers containing residual flammable vapors may explode causing serious injury or death. Do not cut open or apply heat sources to containers.

**Material Safety Data Sheet****Lab-Solvent****Extinguishing Media**

Fire-fighting foam, carbon dioxide, dry chemical. Water spray may be used to cool fire exposed containers.

Fire Fighting Instructions

Fire fighters should wear self-contained breathing apparatus and full protective gear. Avoid breathing vapors, gases and fumes. If safe to do so, shut off all gas pilot lights and electrical (spark or hot-wire) igniters and other sources of ignition. Water can be used to cool and protect exposed material.

6. ACCIDENTAL RELEASE MEASURES

Eliminate all ignition sources. Provide maximum dilution or explosion-proof exhaust ventilation. Avoid release to the environment. For large spills, use fire fighting foam or water spray to disperse vapors. Use appropriate personal protective equipment. Contain and pickup spilled material using spark-resistant tools. Absorb any residual solvent with inert material (e.g. sand, vermiculite) or other flammable solvent absorbing materials. Collect and dispose using approved waste containers.

7. HANDLING AND STORAGE**Handling And Storage Precautions**

Keep out of reach of children. Keep containers tightly closed. Use only with adequate ventilation. Keep away from heat, sparks, flame, and other sources of ignition (i.e., pilot lights, electric motors, and static electricity). Protect from temperature extremes and direct sunlight. Do not reuse or cut open empty containers. Avoid exposure to vapor. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

Work/Hygienic Practices

Use good personal hygiene. Wash thoroughly with soap and water after handling.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Engineering Controls**

Use with adequate general and local exhaust ventilation to maintain air concentrations below recognized exposure limits.

Eye/Face Protection

Safety glasses with side shields or goggles.

Skin Protection

Chemical-resistant gloves made of Teflon or Viton are recommended. PVA or butyl rubber gloves may also be used for short-term work involving limited contact. Note: PVA should not be used when contact with water is expected. Consult your glove manufacturer for additional chemical resistance information and glove limitations.

Respiratory Protection

None normally required when used with adequate ventilation. In case of inadequate ventilation, use a NIOSH-approved respirator for organic vapors when applying product. A 95-series particulate respirator should be used when filing, grinding, or sanding. Engineering controls should be implemented preferentially to reduce exposures. The level of respiratory protection needed should be based on the required protection factor after evaluating chemical exposures using appropriate industrial hygiene monitoring and/or OSHA guidance. Use self-contained breathing apparatus (SCBA) for fires and large spill cleanup.

Ingredient(s) - Exposure Limits**ACETONE**

ACGIH TLV-TWA:	500 ppm
ACGIH TLV-STEL:	750 ppm
OSHA PEL-TWA:	1,000 ppm

TOLUENE

ACGIH TLV-TWA:	50 ppm (Skin)
OSHA PEL-CEILING:	300 ppm
OSHA PEL-PEAK:	500 ppm
OSHA PEL-TWA:	200 ppm

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear Liquid
Odor:	A characteristic aromatic or ketone odor
Chemical Type:	Mixture
Physical State:	Liquid
Boiling Point:	175 to 231 °F
Specific Gravity:	<1
Percent Volatiles:	100
Vapor Density:	> 1
Solubility:	negligible to slight in water
Evaporation Rate:	slower than ethyl ether

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10. STABILITY AND REACTIVITY**Stability:** Stable**Hazardous Polymerization:** Will Not Occur**Conditions to Avoid (Stability)**

Avoid contact with heat, spark, open flame or other source of ignition. Do not reuse or cut open empty container.

Incompatible Materials

Avoid contact with strong oxidizing agents (e.g., sulfuric acid, nitric acid), reducing agents, acids, alkalis and aliphatic amines. May attack some rubber and plastics.

Hazardous Decomposition Products

Thermal oxidation (i.e., "burning") may produce decomposition products of carbon and nitrogen.

11. TOXICOLOGICAL INFORMATION**Chronic/Carcinogenicity**

Neither the product overall nor any of its ingredients are known to be listed as potentially carcinogenic by NTP, IARC, OSHA or ACGIH.

Ingredient(s) - Toxicological Data

TOLUENE

Oral-rat LD50: 2.6 to 7.5 g/kg ; Inhal-mouse (8hr) LC50: 5,320 ppm

12. ECOLOGICAL INFORMATION

Protect drains, sewers, and waterways. Product may be moderately toxic to aquatic organisms on an acute basis.

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with applicable federal, state and local government regulations. Dispose of unused or spill cleanup material as hazardous waste.

RCRA Information

Unused, unsolidified waste material may meet the RCRA characteristics for Ignitable (D001) waste.

14. TRANSPORT INFORMATION**Proper Shipping Name**

Paint (Limit Quantity ORM-D)

Hazard Class

3

DOT Identification Number

UN1263

DOT Shipping Label

Flammable

Certain quantities of the product packaged for ground transportation may qualify for categorization under Consumer Commodity ORM-D and/or Limited Quantity exemptions. Consult the manufacturer and/or DOT regulations.

15. REGULATORY INFORMATION**SARA Hazard Classes**

Acute Health Hazard ; Chronic Health Hazard ; Fire Hazard

SARA Title III - Section 313 Supplier Notification

This product contains the following toxic chemicals that are subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 and of 40 CFR 372.

TOLUENE (108-88-3) 40 - 60 %

This information must be included on all MSDS that are copied and distributed for this material.

Ingredient(s) - U.S. Regulatory Information

TOLUENE

SARA Title III - Section 313 Form "R"/TRI Reportable Chemical

State Regulations

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Ingredient(s) - State Regulations

ACETONE

New Jersey - Workplace Hazard; Pennsylvania - Workplace Hazard; Massachusetts - Hazardous Substance; New York City - Hazardous Substance

TOLUENE

New Jersey - Workplace Hazard; New Jersey - Environmental Hazard; New Jersey - Special Hazard; Pennsylvania - Workplace Hazard; Pennsylvania - Environmental Hazard; California - Proposition 65; Massachusetts - Hazardous Substance; New York City - Hazardous Substance

Canadian Regulatory Information

Class B - Flammable Material (Matiere Inflammable)

Ingredient(s) - Canadian Regulatory Information

ACETONE

WHMIS - Ingredient Disclosure List

TOLUENE

WHMIS - Ingredient Disclosure List

European Union (EU) Regulatory Information

European Union Risk Phrases -

R11 - Highly Flammable

R36/37/38 - Irritating to skin, eye and respiratory system

European Union Safety Phrases -

S2 - Keep out of reach of children

S7 - Keep container tightly closed

S9 - Keep container in a well-ventilated place

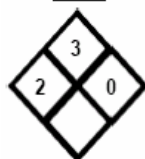
S16 - Keep away from sources of ignition - no smoking

S29 - Do not empty into drains

S33 - Take precautionary measures against static discharges

S51 - Use only in well ventilated areas

WHMIS - Canada (Pictograms)

NFPA	HMIS
	HEALTH 2
	FLAMMABILITY 3
	REACTIVITY 0
	PERSONAL PROTECTION B

16. OTHER INFORMATION

Revision/Preparer Information

This MSDS Supercedes A Previous MSDS Dated: 05/04/2001

Reference Documentation - The following were the primary references used in the creation of this MSDS:

- * Toluene MSDS (Ashland, 8/3/99)
- * Acetone MSDS (Ashland, 10/24/01)
- * U.S. National Library of Medicine Hazardous Substance Databank (HSDB) - toluene, acetone
- * Canadian Centre for Occupational Health & Safety (CCINFO) MSDS Database - toluene, acetone
- * Guide to Occupational Exposure Values, ACGIH 2001
- * Quick Selection Guide to Chemical Protective Clothing
- * Fire Protection Guide on Hazardous Materials
- * Rapid Guide to Chemical Incompatibilities, 1997

Disclaimer

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Manufactured in: USA

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