

SAFETY DATA SHEET

SDS Name: METALEX SOLVENT
SDS Number: 80-871
Version Number: 0001
SDS Date: OCT-27-2015
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SECTION 1. IDENTIFICATION

Product Name: METALEX SOLVENT
CAS Number: N/A
Hazard Rating: Health: 2 Fire: 3 Reactivity: 0 PPI:

Company Identification: KIMBALL MIDWEST
4800 ROBERTS ROAD
COLUMBUS, OH 43228

Contact:
Telephone/Fax: (614) 951-2558 (614) 951-2559

Emergency Phone (24 Hour): FOR INTERNATIONAL CHEMTREC
001 703 527 3887
Chemtrec (24 Hour): 800-424-9300 CCN6206

Product Class: SOLVENT
Trade Name: METALEX
Product Code: 80-871

SECTION 2. HAZARD(S) IDENTIFICATION

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015)

GHS Hazards:

- Flammable Liquids - Category 2
- Skin Corrosion/Irritation - Category 2
- Serious eye damage/Eye irritation - Category 2A
- Specific target organ toxicity - Category 3 (Narcotic effects)
- Toxic to reproduction [Unborn child] - Category 2
- Specific target organ toxicity (repeated exposure) - Category 2
- Aspiration hazard - Category 1

Label Elements:

Hazard Pictograms:



Signal Word: Danger

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Hazard Statements:

- H225 Highly flammable liquid and vapour.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- H315 Causes skin irritation.
- H361 Suspected of damaging fertility or the unborn child.
- H304 May be fatal if swallowed and enters airways.
- H373 May cause damage to organs (state all organs affected, if known) through prolonged or repeated exposure (state route of exposure ([it is conclusively proven that no other routes of exposure cause the hazard]).

Precautionary Statements:

Prevention

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P210 Keep away from heat, sparks, open flames, hot surfaces. No smoking.
- P233 Keep container tightly closed.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical, ventilating, lighting, mixing, application equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P280 Wear protective gloves, protective clothing, eye protection, and face protection.
- P264 Wash hands thoroughly after handling.
- P261 Avoid breathing dust, fume, gas, mist, vapours, or spray.
- P271 Use only outdoors or in a well-ventilated area.

Response

- P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER, doctor or hospital emergency room.
- P331 Do NOT induce vomiting.
- P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P370 + P378 In case of fire: Use dry chemical, CO2, water spray (fog) or foam to extinguish.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337 + P313 If eye irritation persists: Get medical advice/attention.

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P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTER, doctor, or hospital emergency room if you feel unwell.

Storage:

P403 + P235 (S) Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Disposal:

P501 Dispose of contents and empty container in accordance with local, state and federal regulations.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient Name	CAS Number	Percent
TOLUENE	108-88-3	52.35
ACETONE	67-64-1	47.65

*** ALL Ingredients in this product are listed in the T.S.C.A. Inventory

** SPECIAL REMARKS ON ABOVE LISTED INGREDIENTS **

ACGIH recommends a TWA of 50 ppm for toluene (skin).

SECTION 4. FIRST AID MEASURES

Eyes - flush thoroughly with running water for 15 minutes, including under eyelids. Get medical attention.

Skin - promptly remove contaminated clothing and wash affected areas thoroughly with soap and water. If irritation occurs get medical attention. Wash contaminated clothing thoroughly before re-use.

Inhalation - if overcome by vapor, remove to an area free from risk of further exposure. If breathing is difficult, administer oxygen, or artificial respiration if breathing has stopped. Keep person warm and quiet and get medical attention.

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Ingestion - if swallowed, call a physician immediately. Only induce vomiting at the instructions of a physician. Never give anything by mouth to an unconscious person. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE:

Pre-existing eye, skin, liver and/or kidney disorders may be aggravated by exposure to this product.

Chronic (long term) exposure:

In laboratory animals - overexposure to this material (or its components) has been found to cause the following effects; anemia, liver abnormalities, kidney, lung and spleen damage.

In humans - liver and cardiac abnormalities.

Toluene may be harmful to the fetus based on laboratory animal studies. Repeated exposure to toluene has been associated with high frequency hearing loss based on evidence in laboratory animals. The human health consequences of this finding is uncertain.

SECTION 5. FIRE AND EXPLOSION HAZARD DATA

EXTINGUISHING MEDIA:

Foam, alcohol foam, CO₂, dry chemical, water fog may be ineffective but should be used to cool fire-exposed containers to prevent pressure build up and possible auto-ignition or explosion when exposed to extreme heat.

SPECIAL FIREFIGHTING PROCEDURES:

Use full protection equipment including self-contained breathing apparatus (NIOSH approved) for respiratory protection in fighting fires in enclosed or confined spaces, or as otherwise needed. Minimize breathing gases, vapors, fumes or decomposition products.

UNUSUAL FIRE & EXPLOSION HAZARDS:

During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SECTION 6. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Before attempting cleanup, refer to hazard caution information in other sections of this sheet. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

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Large spills - notify safety personnel. Eliminate potential sources of ignition. Wear appropriate respirator and protective clothing. Soak up with an absorbent, I.E. sand, clay, or other suitable material. Place in non-leaking containers and seal tightly for proper disposal. Ventilate confined spaces. Minimize breathing vapors. Open all windows and doors. Minimize skin contact. Keep product out of sewers and water courses by diking and impounding. Observe precautions for volatile, combustible vapors from absorbed material. Small spills - take up with absorbent material and place in non-leaking containers for proper disposal.

SECTION 7. HANDLING AND STORAGE

Do not handle until all safety precautions have been read and understood. Ensure that all equipment is electrically grounded before beginning transfer operations. Keep away from heat and sources of ignition. Store in a well-ventilated place. Keep cool. Store locked up.

PRECAUTIONS TO BE TAKEN IN HANDLING, TRANSPORTATION, AND STORING:

CAUTION! FLAMMABLE! Handling and storage conditions must be suitable for OSHA CLASS I flammable liquid. Store in cool, well-ventilated, fire resistant storage area. Protect containers against physical damage. Keep away from heat, flame, and strong oxidizing agents. Do not store above 100 degrees F. Use only with adequate ventilation. Keep containers closed when not in use. Do not breathe vapor or mist. Avoid contact with eyes, skin and clothing. Do not take internally. Bond and ground containers of this material when pouring to avoid static sparks which create a fire hazard.

OTHER PRECAUTIONS:

Contact lenses pose a special hazard; soft lenses may absorb and all lenses concentrate irritants.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

	ACGIH TLV	ACGIH TLV-C	ACGIH STEL	OSHA STEL	OSHA PEL
TOLUENE (HAPS)	N/est	N/est	100.00 PPM	300.00 PPM	200.00 PPM
ACETONE	750.00 PPM	N/est	1000.00 PPM	1000.00 PPM	750.00 PPM

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RESPIRATORY PROTECTION:

Use NIOSH approved respirator as required to prevent overexposure.
Unconfined spaces - use a vapor/particulate respirator such as NIOSH approved No. TC-23C.
Confined spaces - use a constant flow air-line respirator such as NIOSH approved NO. TC-19C.

VENTILATION:

Provide sufficient ventilation to keep air contaminant concentration below current applicable OSHA permissible exposure limit or ACGIH's TLV limit.
No smoking or open lights.

PROTECTIVE GLOVES:

Use chemical-resistant gloves to prevent skin contact.

EYE PROTECTION:

Use chemical splash goggles or face shield to prevent eye contact.

OTHER PROTECTIVE EQUIPMENT:

Use chemical-resistant or other protective outerwear to protect against clothing contamination and skin contact.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	LIQUID
Appearance/Color:	CLEAR
Odor:	AROMATIC
pH Value:	Not Applicable
Boiling Range:	133.°F - 228.°F
Melting Point:	Not Applicable
Evaporation Rate:	Not Available
Vapor Density:	Heavier than air
Partition Coefficient	Not Available
% Volatile Weight	100.%
% Volatile Volume	100.%
Specific Gravity:	0.829
Weight/Gallon:	6.90 lbs
VOC	7.23 LBS/GAL
Heavy Elements (ppm)	0.
Flammability Class	1B
Flash Range:	-4.°F - 39.°F
Explosive Range:	1.1% - 12.8%

SECTION 10. STABILITY AND REACTIVITY

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REACTIVITY Vapours may form explosive mixture with air.

STABILITY This product is stable.

HAZARDOUS POLYMERIZATION May form explosive peroxides.

INCOMPATIBILITY Avoid contact with strong oxidizing agents, acids or bases.

CONDITIONS TO AVOID Avoid heat, open flames.

HAZARDOUS DECOMPOSITION PRODUCTS None known.

SECTION 11. TOXICOLOGICAL INFORMATION

Route	Species	Exposure and Dose
TOLUENE		
Inhalation	Rat	LC50 4 HOURS > 20 mg/l
Oral	Rat	LD50 5,580 mg/kg
Skin	Rabbit	LD50 12,267 mg/kg
ACETONE		
Inhalation	Rat	LC50 4 HOURS 20. mg/l
Oral	Rat	LD50 > 2,000 mg/kg
Skin	Rabbit	LD50 > 2,000 mg/kg

Reproductive toxicity

Toluene: Case studies of person abusing toluene suggest isolated incidences of adverse effects on the fetus including birth defects.

Acetone: No data available

Carcinogenic toxicity

Toluene: No data available

Product	OSHA	IARC	NTP
Toluene	-	3	-
Actone	-	-	-

EFFECTS OF OVEREXPOSURE:

Primary route(s) of entry:
 Dermal Inhalation Ingestion

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Acute (short term) exposure:

Inhalation - excessive inhalation of vapors can cause nasal and respiratory irritation, cns effects including dizziness, weakness, nausea, headache, possible unconsciousness, and even death.

Skin contact - prolonged or repeated contact can cause moderate irritation, defatting, and dermatitis.

Eye contact - can cause severe irritation, redness, tearing, and blurred vision.

Ingestion - can cause gastrointestinal irritation, nausea, vomiting, and diarrhea. Aspiration of material into the lungs can cause chemical pneumonitis which can be fatal.

SECTION 12. ECOLOGICAL INFORMATION

Toxicity

PRODUCT	RESULT	SPECIES	EXPOSURE
Toluene	EC50 433 ppm	Algae - Skeletonema Costatum	96 hours
	EC50 12,500 Micrograms/liter Fresh Water	Algae - Pseudokirchneriella Subcapitata	72 hours
	EC50 11,600 Micrograms/liter Fresh Water	Crustaceans - Gammarus pseudolimnaeus - Adult	48 hours
	EC50 6,000 Micrograms/liter Fresh Water	Daphnia - Daphnia magna Juvenile	48 hours
	LC50 5,500 Micrograms/liter Fresh Water	Fish - Oncorhynchus kisutch - Fry	96 hours
	NOEC 500,000 Micrograms Fresh Water	Algae - Pseudokirchneriella subcapitata	96 hours
	NOEC 1,000 Micrograms/liter Fresh Water	Daphnia - Daphnia magna	21 days

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Acetone	LC50 > 100 mg/l Static test	Oncorhynchus mykiss Rainbow Trout	96 hours
	EC50 > 100 mg/l Static test	Algae - Pseudokirchneriella Subcapitata	96 hours
	EC50 > 100 mg/l Static test	Daphnia - Daphnia magna	48 hours
	NOEC > 100 mg/l Flow-through test	Daphnia - Daphnia magna	28 days

SECTION 13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:

Assure conformity with applicable federal, state and local regulations.

SECTION 14. TRANSPORT INFORMATION

DOT

UN1263, PAINT RELATED MATERIAL, 3, PG II

Additional information: Limited quantity exemption may be used if product is in containers of 5 liters (1.3 gallons) or less per section 173.150 of 49 CFR.

IMDG

UN1263, PAINT RELATED MATERIAL, 3, PG II

Additional information: None

IATA

UN1263, PAINT RELATED MATERIAL, 3, PG II

Additional information: None

SECTION 15. REGULATORY INFORMATION

U.S. Federal Regulations

Ingredient	CAS #	TSCA Inventory	CERCLA RQ
Toluene	108-88-3	Yes	1,000 lbs
Acetone	67-64-1	Yes	5,000 lbs

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SARA TITLE III SECTION 313:

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right to Know Act of 1986 and of 40 CFR 372:

Ingredient Name	CAS Number	Percent
TOLUENE	108-88-3	52.35%

WHMIS

Class B-2: Flammable liquid
Class D-2A: Material causing other toxic effects (very toxic)
Class D-2B: Material causing other toxic effects (toxic)

Right to know

Massachusetts: Toluene
New York: Toluene
New Jersey: Toluene
Pennsylvania: Toluene

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Ingredient Name	CAS Number	Percent
Toluene	108-88-3	52.35%

SECTION 16. OTHER INFORMATION

The information and recommendations contained herein are based on data believed to be correct. However, Kimball Midwest makes no warranty express or implied regarding the accuracy of these data or results to be obtained from the use thereof. Kimball Midwest assumes no responsibility for personal injury or property damaged caused by use of the material described herein. It is the responsibility of the purchaser or user to ensure that this material is properly and safely used.