



SAFETY DATA SHEET

610 LACQUER THINNER

Revised Date: 08-28-2015

Supersedes: April 2015

1. Identification

Product Identifier	LACQUER THINNER
Other means of Identification	
SDS number	610
Synonyms	610
Recommended use	-
Recommended restrictions	-
 Manufacturer/Importer/Supplier/Distributor Information	
Manufacturer/Supplier	Farwest Paint Manufacturing CO. 4522 South 133rd Street Tukwila, Washington 98168 (Farwest)(206) 244-8844
General Assistance	-
E-Mail	-
Contact Person	-
Emergency Telephone	(Chemtrec) (800) 424-9300 24 Hour Emergency Assistance

2. Hazard(s) Identification

Physical hazards	Flammable liquids	Category 2
Health hazards	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 1
	Sensitization, Skin	Category 1
	Carcinogenicity	Category 2
	Reproductive toxicity	Category 1B
	Specific target organ toxicity, single exposure; Narcotic effects	Category 3
	Specific target organ toxicity, repeated exposure	Category 2
	Aspiration hazard	Category 1

Label elements



Signal word Danger

Unknown Toxicity N/A

Hazard statement Highly Flammable liquid and vapor. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. Suspected of causing cancer. May damage fertility or the unborn child. May cause drowsiness or dizziness. May cause damage to



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central nervous system through prolonged or repeated exposure. May be fatal if swallowed and enters airways.

Precautionary statement Prevention

Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the work place. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product. Do not breathe dust/fume/gas/mist/vapors/spray.

Response

IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower. In case of fire: Use foam, CO₂, dry chemical or water fog for extinction. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. IF ON SKIN: wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. If skin irritation or rash occurs: Get medical advice/attention. IF exposed or concerned: Get medical advice/attention. IF INHALED: Remove person to fresh air and Keep comfortable for breathing. Do NOT induce vomiting.

Storage

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

None known.

3. Composition/information on ingredients



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Mixtures

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Chemical name	CAS number	%
Ethylbenzene	100-41-4	.01
Methyl ethyl ketone	78-93-3	16.6
Methyl amyl ketone	110-43-0	7.8
n-Butyl acetate	123-86-4	5.5
Xylene	1330-20-7	46.4
Solvent naphtha, petroleum, light aliph.	64742-89-8	20.9
Isobutyl Alcohol	78-83-1	2.8

4. First-aid measures

Inhalation	Remove victim to fresh air immediately. If respiratory symptoms develop, seek medical attention at once.
Skin contact	Promptly wash with soap and water. Remove and wash any contaminated clothing before reuse.
Eye contact	Flush with large quantities of water for 15 minutes and seek medical attention.
Ingestion	If ingested DO NOT induce vomiting; keep person warm and quiet and get medical attention. Aspiration of material into lungs can cause chemical pneumonitis which can be fatal.
Most important symptoms/effects, acute and delayed	May cause irritation, sensitization, or defeating of skin upon prolonged or repeated contact. Vapors or spray mist can result in headache dizziness, nausea and loss of consciousness. Some reports associated with prolonged exposure results in permanent brain and nervous system damage.
Indication of immediate medical attention and special treatment needed	In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General information	If exposed or concerned: get medical attention/advice. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use.



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5. Fire-fighting measures

Suitable extinguishing media

Foam, Dry chemical powder, Carbon dioxide (CO₂), or Water fog.

Unsuitable extinguishing media

Water may be unsuitable as an extinguishing medium, but helpful in keeping adjacent container cool.

Specific hazards arising from the chemical

Never use near or around welders or cutting torches because product (even just residue) or drum (even empty) can ignite explosively.

Special protective equipment and precautions for firefighters

Fire fighters and others exposed to vapors or products of combustion should wear self-contained breathing apparatus with full face-piece operated in pressure-demand or other positive pressure mode.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary and unprotected personnel from entering. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. See Section 8 of the SDS for Personal Protective Equipment.

Methods and materials for containment and cleaning up

Small spills: Remove all source of ignition. Ventilate area. Absorb spill with an absorbent material such as sawdust, vermiculite or sand and place material into a closed container. Large spills: Dike area to prevent this material from entering water systems or sewers. Wear protective equipment during cleanup.

7. Handling and storage

Precautions for safe handling

Avoid prolonged or repeated inhalation of heated vapors or spray mist. Keep away from heat or open flame. This material may cause sensitization. Do not get in eyes, on skin or clothing. Do not allow contaminated clothing to contact skin. Do not weld on full or empty containers. Keep containers closed when not in use, and properly labeled.

Conditions for safe storage, including any incompatibilities

Keep in properly labeled containers. Keep away from heat and sources of ignition. Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Protect from moisture. Keep out of the reach of children. Store away from



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other materials. Protect from sunlight. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Components	Type	Value
Isobutyl Alcohol	PEL (TWA)	100 ppm
Ethylbenzene	PEL (TWA)	100 ppm
Methyl ethyl ketone	PEL (TWA)	200 ppm
Methyl amyl ketone	PEL (TWA)	100 ppm
n-Butyl acetate	PEL (TWA)	150 ppm
Xylene	PEL (TWA)	100 ppm

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Isobutyl Alcohol	TWA	100 ppm
Ethylbenzene	TWA	100 ppm
Methyl ethyl ketone	TWA	200 ppm
Methyl amyl ketone	TWA	100 ppm
n-Butyl acetate	TWA	150 ppm
Xylene	TWA	100 ppm

US. OSHA Table Z-2 (29 CFR 1910.1000)

None of the compounds are listed.

US. OSHA Table Z-3 (29 CFR 1910.1000)

None of the compounds are listed.

US. ACGIH Threshold Limit Values

Components	Type	Value
Isobutyl Alcohol	TLV (TWA)	50 ppm
Ethylbenzene	TLV (TWA)	20 ppm



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Methyl ethyl ketone	TLV (TWA)	200 ppm
	TLV (STEL)	300 ppm
Methyl amyl ketone	TLV (TWA)	50 ppm
n-Butyl acetate	TLV (TWA)	150 ppm
	TLV (STEL)	200 ppm
Xylene	TLV (TWA)	100 ppm
	TLV (STEL)	150 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Isobutyl Alcohol	REL (TWA)	50 ppm
Ethylbenzene	REL (TWA)	100 ppm
	REL (STEL)	125 ppm
Methyl ethyl ketone	REL (TWA)	200 ppm
	REL (STEL)	300 ppm
Methyl amyl ketone	REL (TWA)	100 ppm
n-Butyl acetate	REL (TWA)	150 ppm
	REL (STEL)	200 ppm
Xylene	REL (TWA)	100 ppm
	REL (STEL)	150 ppm
	REL (Ceiling)	1800 mg/m ³ [15-minute]

Appropriate engineering controls General ventilation is required during normal use. Local ventilation may be required during certain operations to keep exposure level below the limits listed in this section.

Individual protection measures, such as personal protective equipment

Eye/face protection	Wear face shield or chemical goggles.
Skin protection	
Hand protection	Wear gloves which are recommended by glove supplier for protection.
Other	Chemical resistant nitrile, neoprene or rubber gloves required. Wear protective clothing to prevent skin contact. Eye wash station and safety shower should be available.
Respiratory protection	A canister-type respiratory must be worn to prevent the inhalation of vapors or spray mist when the PEL or TLV is exceeded.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.



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General hygiene considerations Keep work area clean and free from spills and leaks. Always wash hands thoroughly with soap and water before handling food, drink or smoking.

9. Physical and chemical properties

Appearance	Liquid.
Physical state	Liquid.
Form	Liquid.
Color	Not available.
Odor	Mild, Fruity, Ketone odor.
Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	132-281 °F
Flash point	- 4 °F (TCC)
Evaporation rate	Slower than ether.
Flammability (solid, gas)	Highly flammable liquid and vapors.
Upper/lower flammability or explosive limits	
Flammability limit – lower (%)	Not available.
Flammability limit – upper (%)	Not available.
Explosive limit - lower (%)	1.0
Explosive limit - upper (%)	19
Vapor pressure	50mmHg at 20 °C
Vapor density	Heavier than air.
Percent Volatile by volume	<70%
Volatile organic compounds (VOCs)	825 g/l (less water)
Density (wt/gal)	6.86 lbs
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.

10. Stability and reactivity

Reactivity	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	Stable under normal storage conditions.
Possibility of hazardous reactions	Hazardous polymerization reaction will not occur.
Conditions to avoid	Heat, sparks and open flame. If product contains aluminum



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Incompatible materials

moistures in closed containers will generate hydrogen gas. Avoid contact with strong oxidants, acids, bases and epoxy hardeners under uncontrolled conditions.

Hazardous decomposition Products

Incomplete combustion can yield carbon monoxide and toxic vapors.

11. Toxicological Information

Information on likely routes of exposure

Ingestion

May be harmful if swallowed.

Inhalation

Excessive exposure to vapors or spray mist can result in respiratory tract irritation, headache, dizziness, nausea and loss of consciousness.

Skin contact

This material may cause irritation, sensitization, or defeating of skin upon prolonged or repeated contact.

Eye contact

Causes severe burns.

Symptoms related to the physical, chemical and toxicological characteristics

Irritating to skin, burning to the eyes and irritating to respiratory tract.

Delayed and immediate effects and also chronic effects from short- and long-term exposure

May cause irritation, sensitization, or defeating of skin upon prolonged or repeated contact. Vapors or spray mist can result in headache dizziness, nausea and loss of consciousness. Some reports associated with prolonged exposure results in permanent brain and nervous system damage.

Numerical measures of toxicity

Components

Components	Test	Species	Test Results
Methyl ethyl ketone (CAS 78-93-3)	Oral LD ₅₀	Rat	2737 mg/kg
	Dermal LD ₅₀	Rabbit	6480 mg/kg
	Inhalation LC ₅₀	Rat	34.5 mg/l,4h
Methyl amyl ketone (CAS 110-43-0)	Oral LD ₅₀	Rat	1670 mg/kg
	Dermal LD ₅₀	Rabbit	12600 mg/kg
	Inhalation LC ₅₀	Rat	> 16.7 mg/l,4h
Xylene (CAS 1330-20-7)	Oral LD ₅₀	Rat	3523 mg/kg
	Dermal LD ₅₀	Rabbit	4300 mg/kg
	Inhalation LC ₅₀	Rat	6350 ppm,4h

Skin corrosion/irritation

Causes skin irritation.



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Serious eye damage/eye irritation	Causes serious eye damage.
Respiratory or skin sensitization	
Respiratory sensitization	No data available.
Skin sensitization	May cause an allergic skin reaction.
Germ cell mutagenicity	Not classified as mutagen.
Carcinogenicity	Suspected of causing cancer.
IARC Monographs. Overall Evaluation of Carcinogenicity	
Ethyl benzene (CAS 100-41-4)	2B "Possibly carcinogenic to humans".
NTP Report on Carcinogens	
Ethyl benzene (CAS 100-41-4)	Not listed.
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	
Ethyl benzene (CAS 100-41-4)	Not listed.
Reproductive toxicity	May damage fertility or the unborn child.
Specific target organ toxicity - single exposure	May cause drowsiness or dizziness.
Specific target organ toxicity - repeated exposure	May cause damage to central nervous system through prolonged or repeated exposure.
Aspiration hazard	May be fatal if swallowed and enters airways.

12. Ecological information

Numerical measures of toxicity

Components	Test	Species	Test Results
Ethyl benzene (CAS 100-41-4)	Fish LC ₅₀	Rainbow trout (<i>Oncorhynchus mykiss</i>)	>500 mg/l, 96h
	Crustacea EC ₅₀	Water flea (<i>Daphnia magna</i>)	>1000 mg/l, 48h
	Algae EC ₅₀	Green algae (<i>Scenedesmus subspicatus</i>)	>500 mg/l, 72h
Xylene (CAS 1330-20-7)	Fish LC ₅₀	Fathead minnow (<i>Pimephales promelas</i>)	13.4 mg/l, 96h
	Crustacea EC ₅₀	Water flea (<i>Ceriodaphnia dubia</i>)	> 3.4 mg/L, 48h
	Algae EC ₅₀	Microalga (<i>Selenastrum capricornutum</i>)	4.9 mg/l, 72h
Methyl amyl ketone (CAS 110-43-0)	Fish LC ₅₀	Fathead minnow (<i>Pimephales promelas</i>)	131 mg/l, 96h
	Crustacea EC ₅₀	Water flea (<i>Daphnia magna</i>)	> 90.1 mg/l, 48h
Methyl ethyl ketone	Crustacea EC ₅₀	Water flea	308 mg/l, 48h



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(CAS 78-93-3)

(*Daphnia magna*)

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Persistence and degradability	Not available.
Bioaccumulative potential	Not available.
Partition coefficient n-octanol / water (log Kow)	Not available.
Mobility in soil	Not available.
Other adverse effects	Not available.

13. Disposal considerations

Disposal instructions If discarded, this materials and containers should be treated as hazardous waste based on the characteristic of ignitability as defined under Federal RCRA Regulations (40CFR261). Disposal of this material or its containers requires compliance with applicable labeling, packaging and record keeping standards.

Hazardous waste code

US RCRA Hazardous Waste U List : Reference

Isobutyl Alcohol (CAS 78-83-1) U140

Methyl ethyl ketone (CAS 78-93-3) U159

Xylene (CAS 1330-20-7) U239

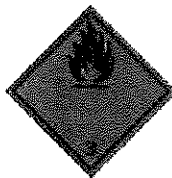
Waste from residues / unused products None known.

Contaminated packaging Dispose in accordance with local, state and federal agencies. Ground handling equipment to prevent sparks.

14. Transport information

DOT

UN number	UN 1263
UN proper shipping name	PAINT
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Label(s)	3 - Flammable liquid





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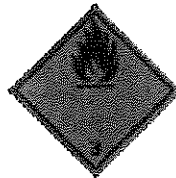
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Packing group	II
Environmental hazards	
Marine pollutant	Yes
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

IATA

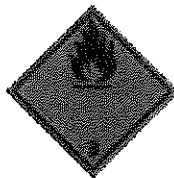
UN number	UN 1263
UN proper shipping name	Paint
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Label(s)	3 - Flammable liquid



Packing group	II
Environmental hazards	Yes
ERG Code	3L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number	UN 1263
UN proper shipping name	PAINT
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Label(s)	3 - Flammable liquid



Packing group	II
Environmental hazards	
Marine pollutant	Yes
EmS	F-E, S-D
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.



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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not available.

15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

2-Ethoxyethyl acetate (CAS 111-15-9)

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Isobutyl Alcohol (CAS 78-83-1) Listed
Ethylbenzene (CAS 100-41-4) Listed

Methyl ethyl ketone (CAS 78-93-3) Listed
Methyl amyl ketone (CAS 110-43-0) Listed
n-Butyl acetate (CAS 123-86-4) Listed
Xylene (CAS 1330-20-7) Listed

CERCLA Hazardous Substance List (40 CFR 302.4)

Isobutyl Alcohol (CAS 78-83-1) Listed
Ethylbenzene (CAS 100-41-4) Listed

Methyl ethyl ketone (CAS 78-93-3) Listed
n-Butyl acetate (CAS 123-86-4) Listed
Xylene (CAS 1330-20-7) Listed

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - Yes
Pressure Hazard - No
Reactivity Hazard - No

SARA 302/304 Extremely hazardous substance

None of the components in this product are listed.

SARA 311/312 Hazardous chemical Yes

SARA 313 (TRI reporting)

Chemical Name	CAS number	% by wt.
Ethylbenzene	100-41-4	< 0.15
Xylene	1330-20-7	4



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Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Ethylbenzene (CAS 100-41-4)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

None of the components in this product are listed.

Safe Drinking Water Act (SDWA)

None of the components in this product are listed.

US State regulations

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

US. New Jersey Worker and Community Right-to-Know Act

Isobutyl Alcohol (CAS 78-83-1)

Ethylbenzene (CAS 100-41-4)

Methyl ethyl ketone (CAS 78-93-3)

Methyl amyl ketone (CAS 110-43-0)

n-Butyl acetate (CAS 123-86-4)

Xylene (CAS 1330-20-7)

US. Pennsylvania Worker and Community Right-to-Know Law

Isobutyl Alcohol (CAS 78-83-1)

Ethylbenzene (CAS 100-41-4)

Methyl ethyl ketone (CAS 78-93-3)

Methyl amyl ketone (CAS 110-43-0)

n-Butyl acetate (CAS 123-86-4)

Xylene (CAS 1330-20-7)

US. California Proposition 65

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Ethylbenzene (CAS 100-41-4)

2-Ethoxyethyl acetate (CAS 111-15-9)

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non- Domestic Substances List (NDSL)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	Yes



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United States &

Toxic Substances Control ACT (TSCA)

Yes

Puerto Rico

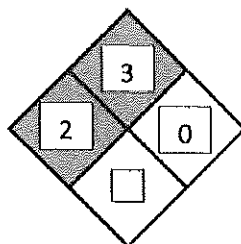
Inventory

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other Information, including date of preparation or last revision

Issue date	April-2015
Revision date	08-28-2015
Version #	01
NFPA Ratings	



References

- ACGIH
- NLM: Hazardous Substances Data Base
- US. IARC Monographs on Occupational Exposures to Chemical Agents
- HSDB - Hazardous Substances Data Bank
- IARC Monographs. Overall Evaluation of Carcinogenicity
- National Toxicology Program (NTP) Report on Carcinogens

Disclaimer

The information, recommendations, and suggestions presented in this SDS are based upon test results and data believed to be reliable. The end user of the product has the responsibility for evaluating the adequacy of the data under the conditions of use, determining the safety, toxicity and suitability of the product under these conditions, and obtaining additional or clarifying information where uncertainty exists. No guarantee expressed or implied is made as to the effects of such use, the results to be obtained, or the safety and toxicity of the product in any specific application. Furthermore, the information herein is not represented as absolutely complete, since it is not practicable to provide all the scientific and study information in the format of this document, plus additional information may be necessary under exceptional conditions of use, or because of applicable laws or government regulations.