

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Identifier

Product Name Silicone

Other means of identification

Product Code 4.2.004
Synonyms Feel Modifier

Recommended use of the chemical and restrictions on use

Recommended Use: Water-borne coatings; PC23 - Leather tanning dyes, finishing, impregnation and care products.

Uses advised against No information available

Details of the supplier of the safety data sheet

Manufacturer Address
Leather Refinishing Technologies
529 Caboose Drive
Quakertown, PA 18951 USA

Emergency Telephone Number

Company Phone Number (215) 536-0625
Emergency Telephone Number (267) 228-5682

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Reproductive toxicity	Category 2

Label Elements

Emergency Overview

Danger

Hazard statements

Causes skin irritation
Causes serious eye damage
Suspected of damaging fertility or the unborn child



Appearance viscous liquid

Physical State Liquid

Odor Slight; characteristic

Precautionary Statements - Prevention

Obtain special instructions before use
 Do not handle until all safety precautions have been read and understood
 Wash face, hands and any exposed skin thoroughly after handling
 Wear protective gloves/eye protection/face protection
 Avoid breathing dust/fume/gas/mist/vapors/spray

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention
 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
 IF ON SKIN: Wash with plenty of water and soap
 If skin irritation occurs: Get medical advice/attention
 Take off contaminated clothing and wash it before reuse

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

No data available

Other information

• None known

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms Feel Modifier.
Chemical characterization Mixture.
Chemical nature Emulsion.

Chemical name	CAS No.	Weight-%	Trade secret
Ethyl benzene	100-41-4	< 0.1	*
Alcohols, C12-14-secondary, ethoxylated	84133-50-6	10 - 30	*
Octamethylcyclotetrasiloxane	556-67-2	<0.1	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

General advice If symptoms persist, call a physician.

Eye Contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Immediate medical attention is required.

Skin Contact IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Remove contaminated clothing and shoes. Get medical attention immediately if symptoms occur.

Inhalation IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Get medical attention immediately if symptoms occur.

Ingestion If sprayed in mouth, rinse mouth with water. Never give anything by mouth to an unconscious person. Get medical attention immediately if symptoms occur.

Self-protection of the first aider Use personal protective equipment. Do not use mouth-to-mouth method if victim ingested or

inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Most important symptoms and effects, both acute and delayed

Symptoms Burning. Itching.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Irrigate burns to the extent determined by a physician as necessary to remove silicon dioxide. Treat symptomatically and supportively.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water spray. Alcohol-resistant foam. Dry chemical. Carbon dioxide (CO₂). Cool containers with flooding quantities of water until well after fire is out. Prevent foam and fire fighting water from entering sewers, drains and waterways.

Unsuitable Extinguishing Media None.

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous combustion products Carbon monoxide. Carbon dioxide (CO₂). Silicon dioxide. Formaldehyde.

Explosion data

Sensitivity to Mechanical Impact No.

Sensitivity to Static Discharge No.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Use personal protective equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Keep people away from and upwind of spill/leak. Use personal protective equipment. Avoid contact with the skin and the eyes.

Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained. Should not be released into the environment. See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for Containment Contain spill with inert material (e.g. sand, silica gel, binder).

Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder). Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

Prevention of secondary hazards Material can create slippery conditions.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Keep away from open flames, hot surfaces and sources of ignition. Do not breathe vapours

or spray mist. Stir before use. Do not get in eyes, on skin, or on clothing. Keep container tightly closed.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat and sources of ignition. Store in original container. Keep from freezing.

Incompatible Products Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering Measures Showers, eyewash stations, and ventilation systems. Local exhaust ventilation as necessary to maintain exposures to within applicable limits. Ensure that eyewash stations and safety showers are close to the workstation location.

Individual protection measures, such as personal protective equipment

Eye/face protection Tightly fitting safety goggles. If splashes are likely to occur, wear: Face-shield.

Skin and body protection Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Wear protective gloves and protective clothing.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations. Use NIOSH-approved air-purifying respirator with organic vapor cartridge or canister, as appropriate.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid	Odor	Slight; characteristic
Appearance	viscous liquid	Odor threshold	No information available
Color	white		

<u>Property</u>	<u>Values</u>	<u>Remarks/ • Method</u>
pH	8.4	Determined
Melting point / freezing point	No information available	No information available
Boiling Point / Boiling Range	100 °C / 212 °F	Estimated
Flash Point		Not applicable
Specific gravity	1.00	Determined
Water solubility	dispersible	
Kinematic viscosity	520 cPs	Determined
Dynamic viscosity	No information available	No information available
Explosive properties	Not explosive.	
Oxidizing properties	Not an oxidizer	

Other information

Molecular weight	No information available
VOC Content (%)	0%
Density	1.0 g/cm3

10. STABILITY AND REACTIVITY

Reactivity

Stable under normal conditions

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to Avoid

Extremes of temperature and direct sunlight.

Incompatible materials

Strong oxidizing agents.

Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating gases and vapours. Formaldehyde and silicon dioxide may be evolved at elevated temperatures.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information No acute toxicity information is available for this product

Inhalation There is no data available for this product.

Eye Contact Risk of serious damage to eyes.

Skin Contact Irritating to skin.

Ingestion May be harmful if swallowed.

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ethyl benzene 100-41-4	= 3500 mg/kg (Rat)	= 15400 mg/kg (Rabbit)	= 17.4 mg/L (Rat) 4 h
Alcohols, C12-14-secondary, ethoxylated 84133-50-6	= 2100 mg/kg (Rat)	-	-
Octamethylcyclotetrasiloxane 556-67-2	= 1540 mg/kg (Rat)	= 794 µL/kg (Rabbit)	= 36 g/m ³ (Rat) 4 h

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Irritating to skin.

Serious eye damage/eye irritation Risk of serious damage to eyes.

Sensitization No information available.

Germ cell mutagenicity None known.

Carcinogenicity -

Chemical name	ACGIH	IARC	NTP	OSHA
Ethyl benzene	A3	Group 2B	-	X

100-41-4			
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Legend:**ACGIH:** (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC: (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

OSHA: (Occupational Safety & Health Administration)

X - Present

Reproductive Effects

Contains a known or suspected reproductive toxin.

Developmental Toxicity

None known.

Teratogenicity

None known.

STOT - single exposure

No information available.

STOT - repeated exposure

No information available.

Target Organ Effects

Lungs, Gastrointestinal tract.

Neurological Effects

None known.

Aspiration Hazard

No information available.

Numerical measures of toxicity - Product Information**12. ECOLOGICAL INFORMATION****Ecotoxicity**

48.2169 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical name	Algae/aquatic plants	Fish	Crustacea
Ethyl benzene 100-41-4	2.6 - 11.3 mg/L: 72 h Pseudokirchneriella subcapitata EC50 static 4.6 mg/L: 72 h Pseudokirchneriella subcapitata EC50 1.7 - 7.6 mg/L: 96 h Pseudokirchneriella subcapitata EC50 static 438 mg/L: 96 h Pseudokirchneriella subcapitata EC50	4.2 mg/L: 96 h Oncorhynchus mykiss LC50 semi-static 7.55 - 11 mg/L: 96 h Pimephales promelas LC50 flow-through 9.6 mg/L: 96 h Poecilia reticulata LC50 static 9.1 - 15.6 mg/L: 96 h Pimephales promelas LC50 static 32 mg/L: 96 h Lepomis macrochirus LC50 static 11.0 - 18.0 mg/L: 96 h Oncorhynchus mykiss LC50 static	1.8 - 2.4 mg/L: 48 h Daphnia magna EC50
Alcohols, C12-14-secondary, ethoxylated 84133-50-6	Not applicable	3.2 mg/L: 96 h Pimephales promelas LC50	7.3 mg/L: 48 h water flea EC50
Octamethylcyclotetrasiloxane 556-67-2	Not applicable	500 mg/L: 96 h Brachydanio rerio LC50 1000 mg/L: 96 h Lepomis macrochirus LC50	25.2 mg/L: 24 h Daphnia magna EC50

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Mobility

Partition Coefficient (n-octanol/water).

Chemical name	Partition coefficient
Ethyl benzene 100-41-4	3.2
Alcohols, C12-14-secondary, ethoxylated 84133-50-6	2.72
Octamethylcyclotetrasiloxane 556-67-2	5.1

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS**Waste treatment methods**

Waste Disposal Methods It must undergo special treatment, e.g. at suitable disposal site, to comply with local regulations. Should not be released into the environment. This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated packaging Empty remaining contents. Dispose of in accordance with local regulations. Do not re-use empty containers.

US EPA Waste Number Waste codes should be assigned by the user based on the application for which the product was used

Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Ethyl benzene 100-41-4	-	Included in waste stream: F039	-	-

California Hazardous Waste Status.

Chemical name	CAWAST
Ethyl benzene 100-41-4	Toxic; Ignitable

14. TRANSPORT INFORMATION

DOT Not regulated

TDG Not regulated

ICAO/IATA Not regulated

IMDG/IMO Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory	Complies
DSL/NDL - Canadian Inventories of Domestic and Non-Domestic Chemical Substances	Complies
EINECS/ELINCS	Complies
ENCS - Japan Existing and New Chemical Substances	Complies
IECSC - China Inventory of Existing Chemical Substances	Complies
KECL - Korean Existing and Evaluated Chemical Substances	Complies
PICCS - Philippines Inventory of Chemicals and Chemical Substances	Complies
AICS - Australian Inventory of Chemical Substances	Complies
NZIoC - New Zealand Inventory of Chemicals	Complies

Legend:

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/ EU List of Notified Chemical Substances

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	SARA 313 - Threshold Values
Ethyl benzene - 100-41-4	0.1

SARA 311/312 Hazardous**Categorization**

Refer to Section 2 of SDS for applicable GHS hazard categories for SARA reporting purposes.

Clean Water Act

Reportable Quantity (RQ): Calculated RQ exceeds the reasonably attainable upper limit.

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Ethyl benzene 100-41-4	1000 lb	X	X	X

CERCLA

Reportable Quantity (RQ): Calculated RQ exceeds the reasonably attainable upper limit.

Chemical name	Hazardous Substances RQs	CERCLA EHS RQs	RQ
Ethyl benzene 100-41-4	1000 lb	-	RQ 1000 lb final RQ RQ 454 kg final RQ

U.S. State Regulations**California Proposition 65**

WARNING: This product can expose you to chemicals listed below, which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Chemical name	California Prop. 65
Ethyl benzene - 100-41-4	Carcinogen

State Right-to-Know

Chemical name	New Jersey	Massachusetts	Pennsylvania
Ethyl benzene 100-41-4	X	X	X
Water 7732-18-5	-	-	X

16. OTHER INFORMATION**NFPA**

Health hazards 3

Flammability 1

Instability 0

HMIS

Health hazards 3*

Flammability 1

Physical hazards 0

Chronic Hazard Star Legend

* = Chronic Health Hazard

Prepared By

Regulations Manager

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29-Jun-2009

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11-Oct-2018

Revision Note

SDS sections updated: 2 3 9 13 15; Update to Format.

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet