



SAFETY DATA SHEET

Product: QL.4540.00US - LPL CONVERSION SEALER

Revision: 03

Date: 2017/05/08

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1 - IDENTIFICATION

GHS Product identifier:	QL.4540.00US - LPL CONVERSION SEALER
Other means of identification:	QL.4540.00US
Recommended use of the chemical and restrictions on use:	Suitable as a sealer for furniture, kitchen cabinets in various wood finishing processes. Indoor use.
Supplier's details:	Renner Wood Coatings
Address:	651, Michael Wylie Drive, Charlotte - NC - USA
Phone number(s):	1 704 527 9261
Emergency phone number:	001 800 255 3924

2 - HAZARD IDENTIFICATION

Classification of the substance or mixture:	Flammable Liquids - Category 2 Acute Toxicity - Oral - Category 5 Skin Corrosion/Irritation - Category 2 Eye Damage/Irritation - Category 1 Germ Cell Mutagenicity - Category 1B Carcinogenicity - Category 2 Reproductive Toxicity - Category 1A Specific Target Organ Toxicity - Single Exposure - Category 3 Specific Target Organ Toxicity - Repeated Exposure - Category 1 and 2 Hazardous to the Aquatic Environment - Acute Hazard - Category 3 Hazardous to the Aquatic Environment - Chronic Hazard - Category 3
Classification system adopted:	Globally Harmonized System of Classification and Labeling of Chemicals (GHS), United Nations.

GHS label elements, including precautionary statements

Pictograms:



Signal word:

DANGER



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Hazard statement(s):

- H225 Highly flammable liquid and vapour.
- H303 May be harmful if swallowed.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H340 May cause genetic defects.
- H351 Suspected of causing cancer.
- H360 May damage fertility or the unborn child.
- H372 Causes damage to liver through repeated or prolonged exposure.
- H373 May cause damage to central nervous system through repeated or prolonged exposure.
- H412 Harmful to aquatic life with long lasting effects.

Precautionary
statement(s):

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, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P233 Keep container tightly closed.
- P240 Ground and bond container and receiving equipment.
- P241 Use explosion-proof electrical, ventilating and lighting equipment.
- P242 Use non-sparking tools.
- P243 Take action to prevent static discharges.
- P260 Do not breathe mist or aerosol vapors.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264 Wash hands thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P273 Avoid release to the environment.
- P280 Wear protective gloves, protective clothing, eye protection and face protection.

RESPONSE:

- P302 + P352 IF ON SKIN: Wash with plenty of water.
- P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308 + P313 IF exposed or concerned: Get medical advice/attention.
- P310 Immediately call a POISON CENTER or a doctor.
- P312 Call a POISON CENTER or a doctor, if you feel unwell.
- P314 Get medical advice/attention if you feel unwell.
- P321 Specific treatment.



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P332 + P313 If skin irritation occurs: Get medical advice/attention.
P362 + P364 Take off contaminated clothing. And wash it before reuse.
P370 + P378 In case of fire: Use to extinction: carbon dioxide (CO₂), foam, water mist and powder.

STORAGE:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.

DISPOSAL:

P501 Dispose of contents and container in accordance with local regulations.

Other hazards which do
not result in
classification:

It is not expected that product presents specific hazards.

3 - COMPOSITION/INFORMATION ON INGREDIENTS

MIXTURES

Components contributing to the hazard:	Butyl acetate (CAS 123-86-4): 24.821 - 41.368%
	Ethyl acetate (CAS 141-78-6): 8.430 - 14.050%
	Acetone (CAS 67-64-1): 6.000 - 10.000%
	Nitrocellulose (CAS 9004-70-0): 5.831 - 9.718%
	Ethanol (CAS 64-17-5): 5.430 - 9.050%
	2-propanol (CAS 67-63-0): 3.410 - 5.683%
	Butanol (CAS 71-36-3): 3.053 - 5.088%
	Acetyltributyl citrate (CAS 77-90-7): 1.875 - 3.125%
	Isobutyl alcohol (CAS 78-83-1): 0.999 - 1.665%
	2-pentanone (CAS 107-87-9): 0.678 - 1.130%
	Xylene (CAS 1330-20-7): 0.424 - 0.706%
	Cyclohexanone (CAS 108-94-1): 0.375 - 0.625%
	N-propyl acetate (CAS 109-60-4): 0.300 - 0.500%
	Ethylbenzene (CAS 100-41-4): 0.170 - 0.283%
	Formaldehyde (CAS 50-00-0): 0.031 - 0.052%

4 - FIRST-AID MEASURES

Routes of exposure

Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If the victim feels unwell, contact a TOXICOLOGICAL INFORMATION CENTER or a doctor. Bring this SDS.
Skin:	Wash exposed skin with sufficient amount of water to remove the material. Take off and isolate contaminated clothing and shoes. In case of skin irritation: contact a doctor. Bring this SDS.
Eye:	Wash the eyes with sufficient amount of water immediately for several minutes, keeping the eyes opened. In case of use of contact lenses, remove them, if possible. Keep washing. Contact a doctor. Bring this SDS.



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Ingestion:	Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse the victims mouth with water in abundance. If the victim feels unwell, contact a TOXICOLOGICAL INFORMATION CENTER or a doctor. Bring this SDS.
Most important symptoms/effects, acute and delayed:	May be harmful if swallowed. Causes irritation to skin Redness, pain and dryness and with eyes Burning, tearing and pain. May cause respiratory irritation. May cause drowsiness or dizziness. Repeated exposure causes difficulty in concentrating, irritability, mental confusion and tremor, and damage to liver.
Indication of immediate medical attention and special treatment needed, if necessary:	Avoid contact with the product to help the victim. Keep victim warm and quiet. Symptomatic treatment should comprise mainly supportive measures such as correction of electrolyte disturbances, metabolic, and respiratory support. In case of skin contact do not rub the affected site.

5 - FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Appropriate: Compatible with carbon dioxide (CO ₂), foam, water mist and powder Inappropriate: Water directly onto the burning product.
Specific hazards arising from the chemical:	The combustion or the chemical containers may form toxic and irritant gases such as carbon monoxide and carbon dioxide. Very dangerous when exposed to excessive heat or other sources of ignition such as sparks, open flames or flames of matches and cigarettes, welding operations, pilot lights and electric motors. Can accumulate static charge by flow or agitation. Vapors from heated liquid can be ignited by static discharge. Vapors are heavier than air and tend to accumulate in low or confined areas, such as sewers and basements. Can travel great distances causing retrogression of the flame or new fires both in open environments in as confined ones. Containers may explode if heated.
Special protective actions for fire-fighters:	Use self-contained breathing apparatus (SCBA) operated in positive pressure mode and complete protective clothing. Containers and tanks involved in the fire should be cooled with water mist.

6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:	Prevent sparks or flames. Do not smoke. Do not touch damaged containers or spilled material without the use of appropriate clothing. Avoid exposure to the product. Stay in a safe place, with wind from behind. Use personal protective equipment as described in Section 8.
For emergency responders:	Use protective equipment as described in Section 8.
Environmental precautions:	Avoid that the spilled material reaches waterways or sewage system.
Methods and materials for containment and cleaning up:	Use water mist or vapor suppressing foam to reduce the dispersion of vapors. Use natural barriers or spill containment. Collect spilled material and put it into containers. Adsorb the remaining product with dried sand, vermiculite or any other inert material. Put the adsorbed material in appropriate containers and remove them to a safe place. Use tools that do not cause sparks to collect absorbed material. For final destination, proceed pursuant to Section 13 of this SDS.



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7 - HANDLING AND STORAGE

Precautions for safe handling

Safe handling of the substance or mixture: Handle in a well ventilated area or with general system of ventilation/local exhaust. Avoid vapors and mists formation. Avoid exposure to the chemical, since the effects may not be felt immediately.

General hygiene: Wash hands and face thoroughly after handling and before eating, drinking, smoking or going to the bathroom. Contaminated clothing should be changed and washed before reuse. Remove clothing and protective equipment contaminated before entering eating areas. Do not eat, drink or smoke while using this product.

Conditions for safe storage, including any incompatibilities

Technical measures for prevention of fire and explosion: Keep away from heat, sparks, open flames and hot surfaces. - Do not smoke. Keep container tightly closed. Ground the container vessel and the receiver of the product during transfers. Only use anti-sparking tools. Avoid the accumulation of electrostatic charges. Use electrical equipment, ventilation and lighting explosion proof. Use personal protective equipment as described in Section 8.

Adequate conditions: Store in a well ventilated place and away from sunlight. Keep container closed. Keep away from high temperatures and ignition sources. Keep stored at room temperature not exceeding 35°C (95°F).

Packaging compatibilities: Metal

8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational exposure limit:

- Xylene:
TLV - TWA (ACGIH, 2015): 100 ppm
TLV - STEL (ACGIH, 2015): 150 ppm.
- Ethylbenzene:
TLV - TWA (ACGIH, 2012): 20 ppm.
- Ethyl acetate:
TLV - TWA (ACGIH, 2015): 400 ppm.
- Acetone:
TLV - TWA (ACGIH, 2012): 500 ppm
TLV - STEL (ACGIH, 2012): 750 ppm.
- Ethanol:
TLV - STEL (ACGIH, 2015): 1000 ppm.
- N-propyl acetate:
TLV - TWA (ACGIH, 2015): 200 ppm
TLV - STEL (ACGIH, 2015): 250 ppm.
- 2-propanol:
TLV - TWA (ACGIH, 2012): 200 ppm
TLV - STEL (ACGIH, 2012): 400 ppm.
- Butanol:
TLV - TWA (ACGIH, 2015): 20 ppm.
- Isobutyl alcohol:
TLV - TWA (ACGIH, 2015): 50 ppm.
- Formaldehyde:



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TLV - C (ACGIH, 2015): 0,3 ppm.

-Butyl acetate:

TLV - TWA (ACGIH, 2015): 150 ppm

TLV - STEL (ACGIH, 2015): 200 ppm.

-Cyclohexanone:

TLV - TWA (ACGIH, 2012): 20 ppm

TLV - STEL (ACGIH, 2012): 50 ppm.

Biological limit:

-Xylene:

BEI (ACGIH, 2015): Methylhipuric acids in urine (end of shift): 2.5 g/g creatinine

-Ethylbenzene:

BEI (ACGIH, 2012): Mandelic acid + phenylglyoxylic acid in urine (end of shift): 0.15 g/g creatinine Ns

-Acetone:

BEI (ACGIH, 2012): Acetone in urine (end of shift): 50 mg/L Ns

-2-propanol:

BEI (ACGIH, 2012): Acetone in urine (End of shift at end of workweek): 40 mg/L Ns, B

-Cyclohexanone:

BEI (ACGIH, 2012): 1,2-Cyclohexanodiol in urine (end of shift at end of workweek): 80 mg/L Ns, Sq

Cyclohexanol in urine (end of shift): 8 mg/L Ns, Sq

Observations:

Ns: The determinant is nonspecific, since it is also observed after exposure to other chemical.

B: The determinant may be present in biological specimens collected from subjects who have not been occupationally exposed, at a concentration which could affect the interpretation of the results. Such background concentrations are incorporated in the BEI value.

Sq: The biological determinant is an indicator of exposure to the chemical, but the quantitative interpretation of measurement is ambiguous. These determinants should be used as a screening test if a quantitative test is not practical, or as a confirmatory test if the quantitative test is not specific and the origin of the determinant is in question.

Other limits and values:

-Ethyl acetate:

IDLH (NIOSH - 2010) : 2000 ppm [10% LEL]

-Ethanol:

IDLH (NIOSH, 2010): 3300 ppm

-Isobutyl alcohol:

IDLH (NIOSH, 2010): 1600 ppm

-Cyclohexanone:

NIOSH IDLH: 700 ppm

Appropriate engineering controls:

Promote direct mechanical ventilation and exhaust system to the outside environment. These measures help reduce exposure to product.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection:

Safety glasses or face shield.

Skin protection:

Safety shoes, pants and long sleeves cotton shirt with clenched fists or protection of whole body against chemical splash.

Respiratory protection:

Protective mask with filter for organic solvents and dusts.



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Thermal hazards: It does not present thermal hazards.

9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid viscous
Color:	Not available.
Odour:	Not available.
Melting point/freezing point:	Not available.
Boiling point or initial boiling point and boiling range:	Not available.
Flammability:	Not applicable.
Lower and upper explosion limit/flammability limit:	Not available.
Flash point:	-18.15°C - -0.67°F (closed cup)
Auto-ignition temperature:	Information regarding to: -Butyl acetate: 420,85°C (789.53°F)
Decomposition temperature:	Not available.
pH:	Not applicable
Kinematic viscosity:	Not available.
Solubility:	Immiscible in water.
Partition coefficient n-octanol/water (log value):	Information regarding to: -Butyl acetate: log K _{ow} : 1.78
Vapour pressure:	Information regarding to: -Butyl acetate: 11.36 hPa (789.53°F)
Density and/or relative density:	0.915 to 0.955 at 25°C (77°F)
Relative vapour density:	Not available
Particle characteristics:	Not applicable
Other information:	VOC: 586.0 g/L; VOC: 4.894 lb/US gal HAP: 7.0 g/L; HAP: 0.053 lb/US gal

10 - STABILITY AND REACTIVITY

Reactivity:	-
Chemical stability:	Product is stable under normal conditions of temperature and pressure.



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Possibility of hazardous
reactions:

Butyl acetate: Contact with nitrates, strong oxidizing agents, strong bases and strong acids can cause fire and explosions. Ignition Occurs When the n-butyl acetate is reacted with potassium t-butoxide. **Ethyl acetate:** Reacts with strong oxidizing agents and can start a fire or explosion **Xylene:** Risk of explosion when in contact with nitric acid and uranium hexafluoride. You could react dangerously with oxidizing agents and sulfuric acid. **Ethylbenzene:** Reacts violently with oxidizing materials. **Acetone:** The product reacts violently with strong oxidizing agents, peroxides, nitric acid, and halogenated hydrocarbons. **Ethanol:** Can form explosive Mixtures with air. Risk of explosion in contact with alkali metals, alkaline oxides and nitric acid. **Butanol:** Reacts dangerously contact aluminum, strong reducing agents, acid chlorides and sulfur trioxides. Reacts in contact with alkali metal, releasing flammable hydrogen wilt. **Isobutyl alcohol:** May ignite on contact with chromium trioxide. May react with aluminum at high temperatures, forming hydrogen gas (explosive). **Formaldehyde:** The product vapors may form an explosive mixture in contact with air. Dangerously reacts with hydrochloric acid, magnesium carbonate, sodium hydroxide, perchloric acid and aniline. Polymerization risk with oxidizing agents and alkalis. Potentially explosive nitromethane, nitrogen dioxide, hydrogen peroxide, nitric acid and phenol. **Cyclohexanone:** Reacts explosively in contact with strong oxidizing agents, mineral acids and nitric acid. Form explosive peroxide in contact with hydrogen peroxide and nitric acid.

Conditions to avoid:

Elevated temperatures. Sources of ignition. Contact with incompatible materials.

Incompatible material:

Acetaldehyde, acetanilide, vinyl acetate, metallic acetylenes, acetonitrile, hydrochloric acid, hydrochloric acid, nitric acid, perchloric acid, sulphuric acid, acids, strong reducing agents, oxidizing agents, alkali metals, aldehydes, aluminum, amines, ammonia, acid anhydride, aniline, base, magnesium carbonate, acid chlorides, hydrochloric compounds, sodium dichromate, nitrogen dioxide, phenol, fluorine, isocyanates, metals, nitrates, nitromethane, ethylene oxide, oxygen, perchlorates, hydrogen peroxide and chromium trioxide.

Hazardous decomposition
products:

There are not known hazardous decomposition products.

11 - TOXICOLOGICAL INFORMATION



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Acute toxicity:	May be harmful if swallowed. Acute Toxicity Estimate (ATE) ATEm (oral): 3992.543 mg/kg ATEm (dermal): > 5000 mg/kg ATEm (inhalation, 4h): > 20 mg/L Information regarding to: <u>-2-pentanone:</u> LD ₅₀ (oral, rats): 1600 mg/kg <u>-Xylene:</u> LD ₅₀ (oral, mice): 2119 mg/kg <u>-Ethylbenzene:</u> LD ₅₀ (oral, rats): 3500 mg/kg <u>-Ethyl acetate:</u> LD ₅₀ (oral, rabbits): 4934 mg/kg <u>-Nitrocellulose:</u> LD ₅₀ (oral, rats): 5000 mg/kg <u>-2-propanol:</u> LD ₅₀ (oral, rats): 3600 mg/kg <u>-Butanol:</u> LD ₅₀ (oral, rats): 1200 mg/kg <u>-Isobutyl alcohol:</u> LD ₅₀ (oral, rats): 3350 mg/kg <u>-Butyl acetate:</u> LD ₅₀ (oral, rabbits): 3200 mg/kg <u>-Cyclohexanone:</u> LD ₅₀ (oral, rats): 1530 mg/kg
Skin corrosion/irritation:	Causes skin irritation with Redness, pain and dryness.
Serious eye damage/irritation:	Causes serious eye damage. with Burning, tearing and pain.
Respiratory or skin sensitization:	It is not expected that the product causes respiratory or skin sensitization.
Germ cell mutagenicity:	May cause genetic defects.
Carcinogenicity:	Suspected of causing cancer.
Reproductive toxicity:	May damage fertility or the unborn child.
STOT - Single exposure:	May cause drowsiness or dizziness may cause dizziness and nausea. May cause respiratory irritation may cause cough and sneezing. In high concentrations may cause hypotension, tachycardia, vasodilatation, dizziness, in-coordination, dizziness, incoordination, headache, confusion, stupor and coma at high concentrations may cause hypotension, tachycardia, Headache, confusion, stupor and coma.
STOT - Repeated exposure:	Causes damage to liver through repeated or prolonged exposure. May cause damage to central nervous system through repeated or prolonged exposure may cause tremor, irritability, difficulty in concentrating and mental confusion. Fatty degeneration, hepatic cirrhosis due to frequent ingestion of alcohol. Epilepsy-triggering cases.
Aspiration Hazard:	It is not expected that the product presents aspiration hazard.



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12 - ECOLOGICAL INFORMATION

Toxicity:	Harmful to aquatic life with long lasting effects. Information regarding to: -Xylene: EC ₅₀ (<i>Crustacea</i> , 48h): 8.5 mg/L LC ₅₀ (<i>Lepomis macrochirus</i> , 96h): 19 mg/L NOEC (<i>Oncorhynchus mykiss</i> , 56 days): > 1 mg/L -Ethylbenzene: LC ₅₀ (<i>Fish</i> , 96h): 4.2 mg/L ErC ₅₀ (<i>Selenastrum capricornutum</i> , 72h): 4.6 mg/L EC ₅₀ (<i>Crustacea</i> , 48h): 4.75 mg/L NOEC (<i>Ceriodaphnia dubia</i> , 7 days): 1 mg/L -Acetone: LC ₅₀ (<i>Oncorhynchus mykiss</i> , 96h): 5.54 mg/L -Formaldehyde: LC ₅₀ (<i>Fish</i> , 96h): 69.2 mg/L LC ₅₀ (<i>Fish</i> , 96h): 69.2 mg/L -Acetyltributyl citrate: EC ₅₀ (<i>Crustacea</i> , 48h): 7.82 mg/L -Butyl acetate: LC ₅₀ (<i>Pimephales promelas</i> , 96h): 18 mg/L EC ₅₀ (<i>Daphnia magna</i> , 48h): apoximadamente 36.4 mg/L
Persistence and degradability:	It is expected that the product presents persistence and it is not considered readily bio-degradable.
Bioaccumulative potential:	Presents high bioacumulative potencial in aquatic organisms. Information regarding to: -Acetyltributyl citrate: log K _{ow} : 4.86
Mobility in soil:	Not determined.
Other adverse effects:	There are not known other environmental effects for this product.

13 - DISPOSAL CONSIDERATIONS

Disposal methods

Must be disposed of as hazardous waste in compliance with local regulations. The treatment and disposal should be evaluated for each specific product. Keep the product remains in its original and properly closed containers. Disposal should be performed as established for the product.

14 - TRANSPORT INFORMATION

Road:	UN - "United Nations" Recommendations on the TRANSPORT OF DANGEROUS GOODS. Model Regulations
UN number:	1263
UN Proper Shipping Name:	PAINT



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Transport hazard
class(es): 3

Packing group: II

Railway regulations: Convention concerning International Carriage by Rail (COTIF)
Appendix C - Regulations concerning the International Carriage of Dangerous Goods by
Rail - RID

UN number: 1263

UN Proper Shipping
Name: PAINTTransport hazard
class(es): 3

Packing group: II

Sea: IMO - International Maritime Organization
International Maritime Dangerous Goods Code (IMDG Code)

UN number: 1263

UN proper shipping
name: PAINTTransport hazard
class(es): 3

Packing group: II

Environmental hazards: The product is not considered a marine pollutant.

EmS: F-E,S-E**Air:** IATA - International Air Transport Association
Dangerous Goods Regulation (DGR)

UN number: 1263

UN proper shipping
name: PAINTTransport hazard
class(es): 3

Packing group: II

Special precautions for
user: There is no need of special precautions.Transport in bulk
according to MARPOL
73/78, Annex II, and the
IBC Code: Consult regulations:
- International Maritime Organization. MARPOL: Articles, protocols, annexes, unified
interpretations of the International Convention for the Prevention of Pollution from Ships,
1973, as modified by the Protocol of 1978 relating thereto, consolidated edition. IMO,
London, 2006.
- International Maritime Organization. IBC code: International code for the construction
and equipment of shipping carrying dangerous chemicals in bulk: With Standards and
guidelines relevant to the code. IMO, London, 2007.**15 - REGULATORY INFORMATION**



In accordance with Globally Harmonized System of
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Convention concerning Safety in the use of Chemicals at Work (Convention 170) - International Labour Organization, 1990;

International Organization for Standardization - ISO 11014:2009.

TSCA status: We certify that all of the components of this product are listed on the TSCA Inventory.

DSL status: We certify that all of the components of this product are listed on the DSL.

Prop.65: WARNING! This product contains a chemical known to the State of California to cause cancer.

Ethylbenzene 100-41-4

Formaldehyde 50-00-0

16 - OTHER INFORMATION

This SDS was prepared based on current knowledge about the proper product handling and under normal conditions of use, in accordance with the application specified on the packaging. Any other use of the product involving their combination with other materials, and use various forms of those indicated, are the responsibility of the user. Warns that the handling of any chemical substance requires the prior knowledge of its hazards for the user. In the workplace it is for the user company's product promotes training of its collaborators about the possible risks arising from exposure to the chemical.

SDS elaborated in May 2017.

Change control:

Version	Publication Date	Changes
03	2017/05/08	New SDS layout

Hazard classification of chemical:

Health: 3
Flammability: 3
Instability: 0
Specific: Probably not classified

Classification system adopted: National Fire Protection Association: NFPA 704.

Hazard classification of chemical:

Health: 4*
Flammability: 3
Physical Hazard: 0
Personal Protection: H

Classification system adopted: National Paint & Coatings Association: NPCA.



In accordance with Globally Harmonized System of
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NFPA 704:



HMIS:

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FLAMMABILITY		3
PHYSICAL HAZARD		0
PERSONAL PROTECTION		H

Abbreviations:

ACGIH - *American Conference of Governmental Industrial Hygienists*

BEI - *Biological Exposure Index*

C - *Ceiling*

CAS - *Chemical Abstracts Service*

EC₅₀ - *Effective Concentration 50%*

IDLH - *Immediately Dangerous to Life or Health*

LC₅₀ - *Lethal Concentration 50%*

LD₅₀ - *Lethal Dose 50%*

NIOSH - *National Institute for Occupational Safety and Health*

STEL - *Short Term Exposure Limit*

TLV - *Threshold Limit Value*

TWA - *Time Weighted Average*

VOC - *Volatile Organic Compound*

Bibliographic references:

Globally Harmonized System of Classification and Labelling of Chemicals (GHS). 6. rev. ed. New York: United Nations, 2015.