

SECTION 1 : IDENTIFICATION

1.1 PRODUCT IDENTIFIER

Product Name: Lonseal #400 Contact Adhesive
Product Code: ZAD4001

1.2 RELEVANT IDENTIFIED USES AND USES ADVISED AGAINST

Product Use: Sheet vinyl flooring adhesive (see Technical Data Sheet for additional details)
Product Restrictions: For use with sheet vinyl flooring only (see Technical Data Sheet for additional details)

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Manufactured for: Lonseal, Inc.
Address: 928 E. 238th Street
Carson, CA 90745
(310) 830-7111

24 Hour Emergency Phone Number: INFOTRAC – (800) 535-5053

SECTION 2: HAZARD(S) IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Flammable Liquids, Category 2:	H225	Highly flammable liquid and vapor.
Acute Toxicity, Category 4:	H302	Harmful if swallowed.
	H312	Harmful in contact with skin.
Skin Corrosion/Irritation, Category 3:	H316	Causes mild skin irritation.*
Serious Eye Damage/Irritation, Category 1:	H318	Causes serious eye damage.
Skin Sensitizer, Category 1:	H317	May cause an allergic skin reaction.
Carcinogenicity, Category IA :	H350	May cause cancer.
STOT SE, Category 3:	H336	May cause drowsiness or dizziness.

2.2 LABEL ELEMENTS



Signal Word: DANGER

Hazard Statement(s):

H225	Highly flammable liquid and vapor.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H316	Causes mild skin irritation.*
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H336	May cause drowsiness or dizziness.
H350	May cause cancer.

Precautionary Statement(s):

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.
P235	Keep cool.
P240	Ground and bond container and receiving equipment.
P241	Use explosion proof equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P261	Avoid breathing dust/fumes/gas/mist/vapors/spray.
P262	Do not get in eyes, on skin, or on clothing.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink, or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves, eye protection, and face protection.

Response Statement(s):

P301+310	IF SWALLOWED: Immediately call POISON CENTER or doctor/physician.
P302+352	IF ON SKIN: Wash with plenty of soap and water.
P303+361+353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+312	IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+313	IF exposed or concerned: Get medical advice/attention.

P310 Immediately call a POISON CENTER or doctor/physician.
 P321 Specific treatment (see information on this label).
 P333+313 If skin irritation or rash occurs: Get medical advice/attention.
 P340 Remove person to fresh air and keep comfortable for breathing.
 P363 Wash contaminated clothing before reuse.
 P370+378 In case of fire: Use dry chemical, foam, or water fog to extinguish.

Storage Statement(s):

P403+233 Store in a well-ventilated space. Keep container tightly closed.
 P405 Store locked up.

Disposal Statement(s):

P501 Dispose of contents/container in accordance with local/national regulations.

2.3 OTHER HAZARDS

None noted by manufacturer.

*Not adopted by US OSHA

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Name	CAS Number	Weight %	Classification*
Acetone ^{1,2}	0000067-64-1	50 - 75	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336
Butadiene-Acrylonitrile Copolymers Polyvinyl Chloride ¹	0009003-18-3	10 - 25	Not classified
Chlorinated paraffin c22-30 ¹	0063449-39-8	1.0 - 10	Not classified
Formaldehyde, Polymer with 4-(1,1-Dimethylethyl)PH ¹	0025085-50-1	1.0 - 10	Not classified
Formaldehyde, Polymer with Ammonia ¹	0055185-45-0	1.0 - 10	Not classified
Salicylic acid ¹	0000069-72-7	1.0 - 10	Acute Tox. 4; H302 Eye Dam. 1; H318
Zinc oxide ^{1,2}	0001314-13-2	1.0 - 10	Aquatic Acute 1; H400 Aquatic Chronic 1; H410

¹Substance classified with a health or environmental hazard.

²Substance with a workplace exposure limit.

*The full text of the GHS Hazard Statement may be found in Section 16.

SECTION 4: FIRST-AID MEASURES

4.1 DESCRIPTION OF NECESSARY FIRST-AID MEASURES

General: In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
Eyes: Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart, and seek medical attention.
Ingestion: If swallowed obtain immediate medical attention. DO NOT induce vomiting. If vomiting should occur spontaneously, keep victims head below their knees to prevent aspiration into the lungs.
Inhalation: Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious, place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
Skin: Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.

4.2 MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED

Overview: EFFECTS OF OVEREXPOSURE – EYE CONTACT: Liquid, aerosols, and vapors of this product are irritating and can cause pain, tearing, reddening, and swelling accompanied by a stinging sensation and/or feeling like that of fine dust in the eyes.
 EFFECTS OF OVEREXPOSURE – INGESTION CONTACT: This material may be harmful or fatal if swallowed.
 EFFECTS OF OVEREXPOSURE – INHALATION CONTACT: Harmful if inhaled. Headaches, dizziness, nausea, decreased blood pressure, changes in heart rate, and cyanosis may result from overexposure to vapor or skin exposure. Breathing saturated vapors for a few minutes may be fatal. Saturated vapors can be encountered in confined spaces and/or under conditions of poor ventilation. Prolonged inhalation may be harmful.
 EFFECTS OF OVEREXPOSURE – SKIN CONTACT: Prolonged or repeated skin contact can result in defatting or drying of the skin which may result in skin irritation and dermatitis (rash).
 EFFECTS OF OVEREXPOSURE – CHRONIC HAZARDS: Overexposure may cause lung damage.

Possible cancer hazard. Contains an ingredient which may cause cancer based on animal data (See Section 3 and Section 15 for each ingredient). Risk of cancer depends on duration and level of exposure.

Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects

on the kidneys, liver, and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness, and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation, and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashed of liquid in the eyes may cause irritation and soreness with possible reversible damage. See Section 2 for further details.

Eyes: Causes serious eye irritation.
Ingestion: Harmful if swallowed.
Inhalation: May cause drowsiness or dizziness.
Skin: Causes mild skin irritation.
Chronic Effects: Moderate CNS depression may be shown by giddiness, headache, dizziness, and nausea. If vomiting occurs, keep head below hips to prevent aspiration of liquid into lungs, which can cause severe lung damage. Aspiration pneumonitis may be evidenced by coughing and cyanosis.

4.3 INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

No specific information provided by the manufacturer.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 SUITABLE EXTINGUISHING MEDIA

Dry chemical, Foam, Water Fog

5.2 SPECIFIC HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Hazardous Decomposition: Oxides of carbon and nitrogen, low molecular weight hydrocarbons and organic acids.

See Section 2 Precautionary Statement(s).

5.3 SPECIAL PROTECTIVE ACTIONS FOR FIRE-FIGHTERS

Volatile solvent constituent can readily form explosive or flammable mixtures in air. Vapors can flow along surfaces to distant ignition sources and flash back.

Cool closed containers exposed to fire by spraying them with water. Do not allow run off water and contaminants from fire-fighting to enter drains or water ways.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES

Put on appropriate personal protective equipment. See Section 8.

Remove sources of ignition. Do not turn lights or unprotected electrical equipment on or off. In case of major spill or spillage in a confined space, evacuate the area and check that solvent vapor levels are below the Lower Explosive Limit before re-entering.

6.2 ENVIRONMENTAL PRECAUTIONS

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using the toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Handle as a flammable liquid. Remove all ignition sources. Soak up wet material on a non-combustible absorbent and placed in a closed metal container.

SECTION 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Store in cool, well-ventilated area away from any ignition sources and strong oxidizing agents. Keep containers tightly closed when not in use. Do not transfer to plastic containers.

Store in accordance with National Fire Prevention Association's publication NFPA 30, Flammable and Combustible Liquids. Code 29 CFR 1910.106 applies to the handling, storage, and use of flammable and combustible liquids.

See Section 2 Precautionary Statement(s).

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Handle containers carefully to prevent damage and spillage.

Store in a cool, well-ventilated area away from any ignition sources and strong oxidizing agents. Keep containers tightly closed when not in use. Do not transfer to plastic containers.

Ground and bond metal containers when dispensing. No smoking in areas of use or storage. Use only non-sparking tools near wet adhesive or solvent vapors. Solvent vapor is much heavier than air and can collect in dangerous concentrations in floor drains or low areas.

See Section 2 Storage Statement(s).

Incompatible Materials: Avoid contact with strong acids or bases. Contact with strong oxidizers may cause fire and explosion.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

Exposure (Only components with established OEL are shown)

Ingredient/Chemical Name	CAS Number	Source	Value
Acetone	0000067-64-1	OSHA	TWA: 1000 ppm (2400 mg/m ³); STEL: 2400 mg/m ³
		ACGIH	TWA: 250 ppm; STEL: 500 ppm Skin
		NIOSH	TWA: 250 ppm (590 mg/m ³)
Zinc oxide	0001314-13-2	OSHA	TWA: 5 mg/m ³ (fume), 15 mg/m ³ (total dust), 5 mg/m ³ (resp. dust)
		ACGIH	TWA: 2 mg/m ³ ; STEL: 10 mg/m ³ AI, I, Revised 2003

Carcinogen Data

Ingredient/Chemical Name	CAS Number	Source	Value
Acetone	0000067-64-1	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected; No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No
Salicylic acid	0000069-72-7	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected; No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No
Zinc oxide	0001314-13-2	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected; No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No
Butadiene-Acrylonitrile Copolymers Polyvinyl Chloride	0009003-18-3	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected; No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No
Formaldehyde, Polymer with 4-(1,1-Dimethylethyl)PH	0025085-50-1	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected; No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No
Formaldehyde, Polymer with Ammonia	0055185-45-0	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected; No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No
Chlorinated paraffin c22-30	0063449-39-8	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected; Yes
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No

8.2 APPROPRIATE ENGINEERING CONTROLS

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits, suitable respiratory protection must be worn.

8.3 APPROPRIATE PROTECTION MEASURES, INCLUDING PERSONAL PROTECTIVE EQUIPMENT

Eye Protection: Safety glasses or chemical goggles should be worn.

Respiratory Protection: Atmospheric levels should be maintained below the exposure guidelines. Use an approved, full-face, supplied air respirator or a NIOSH approved positive pressure, self-contained breathing apparatus if these levels are exceeded.

Skin Protection: Overalls which cover the body, arms, and legs should be worn. Skin should not be exposed. All parts of the body should be washed after contact. Use neoprene, vinyl, or natural rubber gloves.

Other Work Practices: Eye wash fountain or bottles. Solvent insoluble barrier hand cream. Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using the toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See Section 2 Precautionary Statement(s).

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquid
Odor:	Sweet, pungent smell of acetone
Odor Threshold:	Not measured
pH:	Not measured
Melting Point/Freezing Point:	Not measured
Initial Boiling Point and Boiling Range:	133 °F
Flash Point:	-4 °F (TCC)
Evaporation Rate (Ether = 1):	Slower than ether
Flammability (Solid, Gas):	Not applicable
Upper/Lower Flammability or Explosive Limits:	Lower Explosive Limit: 2.2%; Upper Explosive Limit 13.0%
Vapor Pressure (Pa):	Not Measured
Vapor Density:	Heavier than air
Relative Density:	Not noted by mfg.
Solubility in Water:	Nil
Partition Coefficient (n-octanol/water):	Not measured
Auto-Ignition Temperature:	Not measured
Decomposition Temperature:	Not measured
Viscosity (cSt):	Not measured
Specific Gravity:	0.9 (H ₂ O = 1)
VOC (%):	n/a

SECTION 10: STABILITY AND REACTIVITY

10.1 REACTIVITY

Hazardous polymerization will not occur.

10.2 CHEMICAL STABILITY

Stable under normal circumstances.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No data available.

10.4 CONDITIONS TO AVOID

Avoid contact with open flame, sparks, or hot surfaces.

10.5 INCOMPATIBLE MATERIALS

Avoid contact with strong acids or bases. Contact with strong oxidizers may cause fire and explosion.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Oxides of carbon and nitrogen, low molecular weight hydrocarbons and organic acids.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity: Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver, and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness, and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation, and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage.

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Ingredient/Chemical Name	CAS Number	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation: Vapor LD50, mg/L/4 hr.	Inhalation: Dust/Mist LD50, mg/L/4 hr.	Inhalation: Gas LD50, ppm
Acetone	0000067-64-1	5,800.00, Rat - Category : n/a	7,426.00, Guinea Pig - Category: n/a	76.00, Rat - Category : n/a	50.10, Rat - Category: n/a	No data available
Butadiene-Acrylonitrile Copolymers Polyvinyl Chloride	0009003-18-3	No data available	No data available	No data available	No data available	No data available
Chlorinated paraffin c22-30	0063449-39-8	11,700.00, Rat - Category: n/a	No data available	No data available	No data available	No data available
Formaldehyde, Polymer with 4-(1,1-Dimethylethyl)PH	0025085-50-1	No data available	No data available	No data available	No data available	No data available
Formaldehyde, Polymer with Ammonia	0055185-45-0	No data available	No data available	No data available	No data available	No data available
Salicylic acid	0000069-72-7	891.00, Rat - Category: 4	10,000.00, Rabbit - Category: n/a	No data available	No data available	No data available
Zinc oxide	0001314-13-2	5,000.00 Rat - Category: 5	No data available	No data available	2.50, Mouse - Category: 4	No data available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification	Category	Hazard Description
Acute toxicity (oral)	4	Harmful if swallowed.
Acute toxicity (dermal)	4	Harmful in contact with skin.
Acute toxicity (inhalation)	-	Not applicable
Skin corrosion/irritation	3	Causes mild skin irritation. (Not adopted by US OSHA)
Serious eye damage/irritation	1	Causes serious eye damage.
Respiratory sensitization	-	Not applicable
Skin sensitization	1	May cause an allergic skin reaction.
Germ cell mutagenicity	-	Not applicable
Carcinogenicity	1A	May cause cancer.
Reproductive toxicity	-	Not applicable
STOT-single exposure	3	May cause drowsiness or dizziness.
STOT-repeated exposure	-	Not applicable
Aspiration hazard	-	Not applicable

SECTION 12: ECOLOGICAL INFORMATION

12.1 TOXICITY

Toxic to aquatic life.

Aquatic Ecotoxicity

Ingredient/Chemical Name	CAS Number	96 hr. LC50 fish, mg/L	48 hr. EC50 crustacea, mg/L	ErC50 algae, mg/L
Acetone	0000067-64-1	100.00, Pimephales promelas	10.00, Daphnia magna	20.565 (72 hr.), Ulva pertusa
Butadiene-Acrylonitrile Copolymers Polyvinyl Chloride	0009003-18-3	Not available	Not available	Not available
Chlorinated paraffin c22-30	0063449-39-8	300.00, Lepomis macrochirus	102.00, Daphnia magna	Not available
Formaldehyde, Polymer with 4-(1,1-Dimethylethyl)PH	0025085-50-1	Not available	Not available	Not available
Formaldehyde, Polymer with Ammonia	0055185-45-0	Not available	Not available	Not available

Salicylic acid	0000069-72-7	90.00, Leuciscus idus	105.00, Daphnia magna	0.00 (96 hr.), (Species not provided by mfg.)
Zinc oxide	0001314-13-2	1.10, Oncorhynchus mykiss	0.098, Daphnia magna	0.042 (72 hr.), Pseudokirchneriella subcapitata

1 2.2 PERSISTENCE AND DEGRADABILITY

There is no data available on the preparation itself.

1 2.3 BIOACCUMULATIVE POTENTIAL

Not measured.

1 2.4 MOBILITY IN SOIL

No data available.

1 2.5 OTHER ADVERSE EFFECTS

Results of PBT and vPvB Assessment: This product contains no PBT/vPvB chemicals.

SECTION 1 3: DISPOSAL CONSIDERATIONS

1 3.1 DISPOSAL METHODS

Observe all federal, state, and local regulations when disposing of this substance.

SECTION 1 4: TRANSPORT INFORMATION

UN Number:	DOT UN1133	IMO/IMDG UN1133	ICAO/IATA UN1133
UN Proper Shipping Name:	Adhesives, containing a flammable liquid, 3, II	Adhesives, containing a flammable liquid, 3, II	Adhesives, containing a flammable liquid, 3, II
Transport Hazard Class(es):	DOT Hazard Class: 3	IMDG: 3 (sub-class: n/a)	Air Class: 3
Packing Group:	II	II	II
Environmental Hazards:	Marine Pollutant: No		
Special Precautions for User:	No further information.		

SECTION 1 5: REGULATORY INFORMATION

Regulatory Overview: The regulatory data in Section 15 is not intended to be all-inclusive. Only selected regulations are represented.

Toxic Substance Control Act (TSCA): All components of this material are either listed or exempt from listing in the TSCA Inventory.

WHMIS Classification: B2 D2A E

US EPA Tier II Hazards:	Fire:	Yes
	Sudden Release of Pressure:	No
	Reactive:	No
	Immediate (Acute):	Yes
	Delayed (Chronic):	Yes

EPCRA 311/312 Chemicals and RQs (lbs.):	Acetone (5,000 lbs.)
EPCRA 302 Extremely Hazardous:	Cresol; Phenol
EPCRA 313 Toxic Chemicals:	Lead Compounds (as Pb); Zinc oxide

Proposition 65 – Carcinogens (>0.0%):	Benzene, Butadiene, Cadmium, Ethyl Benzene, Formaldehyde, Lead Compounds (as Pb), Propenenitrile, Vinylcyclohexene
Proposition 65 – Developmental Toxins (>0.0%):	Benzene, Butadiene, Lead Compounds (as Pb)
Proposition 65 – Female Reproductive Toxins (>0.0%):	Butadiene, Lead Compounds (as Pb), Vinylcyclohexene
Proposition 65 – Male Reproductive Toxins (>0.0%):	Benzene; Butadiene, Cadmium, Lead Compounds (as Pb)

New Jersey RTK Substances (>1%):	Acetone, Zinc oxide
Pennsylvania RTK Substances (>1%):	Acetone, Zinc oxide

SECTION 1 6: OTHER INFORMATION

Intentional misuse by deliberate inhalation of toluene has been associated with liver, kidney, and brain damage in humans. Overexposure to Toluene has been found to cause liver, kidney, nasal, and brain damage in laboratory animals. Repeated overexposure to high vapor

concentrations (1,000 ppm) of n-Hexane can cause irreversible nerve damage. This neurotoxicity can be enhanced by the presence of Methyl Ethyl Ketone.

Full Text of GHS Hazard Statements from Section 3:

H225	Highly flammable liquid and vapor.
H302	Harmful if swallowed.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

DISCLAIMER: Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. This information relates only to the product designated herein, and does not relate to its use in combination with other materials or in any other process. The manufacturer makes no representations and assumes no liability for any direct, incidental, or consequential damages resulting from its use. The information herein is presented in good faith and based upon data from manufacturers and/or technical sources, and is believed to be accurate as of the revision date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State, or provincial and local laws. Conditions of use are beyond our control and therefore users are responsible to verify this data under their own conditions to determine suitability for their purpose. Users of this product must comply with all applicable health and safety laws, regulations, and orders. Users of this product assume all risks of use, handling, and disposal, or from use of the information contained within this document.

General Statements:

Keep out of the reach of children.
For professional or industrial use only.
If you cannot read, or do not understand all directions, cautions, and warnings for this product, DO NOT use.

Abbreviations (may not actually appear within document):

ACGIH	American Conference of Governmental Industrial Hygienists
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
bw	Body Weight
Carc.	Carcinogenicity
CAS	Chemical Abstracts Service
CFR	Code of Federal Regulations
CMR	Carcinogenicity, Mutagenicity, and Toxicity for Reproduction
CNS	Central Nervous System
cSt	centistokes
d	Day
Dam.	Damage
DIN	German Institute for Standardization
DNEL	Derived No Effect Level
DSL	Domestic Substances List
DOT	Department of Transportation
EC	European Commission
EC50	Effective Concentration, for 50% of Test Population
EPA	Environmental Protection Agency
EPCRA	Emergency Planning and Community Right-to-Know Act
ErC50	Effective Concentration, for 50% of Test Population
ERG	Emergency Response Guidebook
g	grams
GHS	Globally Harmonized System
HMIS	Hazardous Materials Identification System
hr.	hour(s)
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
IOELV	Indicative Occupational Exposure Limit Values
Irrit.	Irritation
L	liter(s)
lbs.	pounds
LC50	Lethal Concentration, for 50% of Test Population
LD50	Lethal Dose, for 50% of Test Population
Liq.	Liquid
m	meter(s)
mfg.	Manufacturer
mg	milligram(s)
mL	milliliter
n/a	Not Applicable
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety and Health
NOEC	No Observed Effect Concentration
NTP	National Toxicology Program
OEL	Occupational Exposure Limits
OSHA	Occupational Safety and Health Administration

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Pa	Pascal
PBT	Persistent Bioaccumulative and Toxic
PEL	Permissible Exposure Limit
PNEC	Predicted No Effect Concentration
PPE	Personal Protective Equipment
ppm	Parts Per Million
Repr.	Reproductive Toxicity
Respir.	Respiratory Tract Irritation
RQ	Reportable Quantities
RTK	Right-to-Know
SDS	Safety Data Sheet
Sens.	Sensitization
STEL	Short-Term Exposure Limit
STOT	Specific Target Organ Toxicity
STOT RE	Specific Target Organ Toxicity, Repeat Exposure
STOT SE	Specific Target Organ Toxicity, Single Exposure
TCC	Tag Closed Cup
THF	Tetrahydrofuran
TLV	Threshold Limit Value
Tox.	Toxicity
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace Exposure Limit
WHMIS	Workplace Hazardous Materials Information System

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Revision History:

- 6.1.2015 Initial SDS Release. SDS provided by mfg. was incorporated into Lonseal's letterhead/layout. Items contained within Section 16, from "DISCLAIMER" and below, are exclusive to Lonseal's version of the SDS.
- 7.8.2015 Added missing precautionary statements P262 and P270.