

This SDS adheres to the standards and requirements of the United States and may not meet the regulatory requirements of other countries.

1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name	Neoprene Liquid Dispersion polychloroprene.
Product Code	LD 571, LD654, LD 671A, LD 750, LD 842A
CAS No.	Not applicable.
EC No.	Not applicable.
REACH Registration No.	Not applicable.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use(s)	Rubber products.
Uses Advised Against	For manufacturing and research use only.

1.3 Details of the supplier of the safety data sheet

Company identification	Denka Performance Elastomer LLC
Address	8000 Building 560 Highway 44 LaPlace, LA
Postal Code	70068
Telephone Number	+1-985-536-5217 Product Information

1.4 Emergency telephone number

Transportation Emergency	+1-800-424-9300 (CHEMTREC)
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2. SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Skin Irrit. 2: Causes skin irritation.
Eye Irrit. 2: Causes serious eye irritation.

2.2 Label elements

Product Name	Neoprene Liquid Dispersion polychloroprene.
Contains	Resin acids and Rosin acids, potassium salts, CAS 61790-50-9 2,2'-iminodiethanol, CAS 111-42-2 Potassium hydroxide, CAS 1310-58-3

Hazard Pictogram(s)



GHS07

Signal Word(s)

Warning.

Hazard Statement(s)

H315: Causes skin irritation.
H319: Causes serious eye irritation.

Precautionary Statement(s)

P264: Wash hands thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352: IF ON SKIN: Wash with plenty of water.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313: If skin irritation occurs: Get medical advice/attention.
P337+P313: If eye irritation persists: Get medical advice/attention.

Special labelling of certain substances and mixtures Percent of the mixture consists of ingredient(s) of unknown acute toxicity: 45.8596%.

2.3 Other hazards

Not applicable.

2.4 Additional Information

For full text of H/P Statements see section 16.

3. SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Laboratory tests/assessments have shown that one or more components in this product is/are not bioavailable in sufficient concentrations to produce adverse effects, and therefore, do not need to be considered in the final hazard labelling of the product.

3.1 Substances

Not applicable.

3.2 Mixtures

EC Classification No. 1272/2008

HAZARDOUS INGREDIENT(S)	CAS No.	%W/W	Classification
1,3-butadiene, 2-chloro-, homopolymer	9010-98-4	< 60	Not classified
2-chloro-1, 3-butadiene / 2, 3-dichlorobutadiene copolymer	25067-95-2		Not classified
Water	7732-18-5	> 40	Not classified
Resin acids and Rosin acids, potassium salts	61790-50-9	< 2	Eye Irrit. 2; H319
2,2'-iminodiethanol	111-42-2	< 2	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT RE 2; H373 Aquatic Chronic 3; H412
Potassium hydroxide	1310-58-3	< 0.6	Acute Tox. 4; H302 Skin Corr. 1A; H314
Distillates (petroleum), hydrotreated heavy naphthenic (<3% DMSO Extract)	64742-52-5	< 0.3	Not classified
Sodium hydroxide	1310-73-2	< 0.2	Skin Corr. 1A; H314

4. SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Inhalation	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
Skin Contact	Wash with plenty of water. If skin irritation occurs: Get medical advice/attention.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	Wash out mouth with water. Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

None anticipated.

4.3 Indication of any immediate medical attention and special treatment needed

Unlikely to be required but if necessary, treat symptomatically.

5. SECTION 5: FIREFIGHTING MEASURES

Non-flammable.

5.1 Extinguishing media

Suitable extinguishing media Water, Foam, CO2 or dry powder.

Unsuitable extinguishing media None known.

5.2 Special hazards arising from the substance or mixture

Decomposes in a fire giving off toxic fumes: Hydrogen chloride, Carbon monoxide, Aldehydes, Organic acids.

5.3 Advice for firefighters

Evacuate the area. Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

6. SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment, and emergency procedures

Ensure adequate ventilation. Wear suitable protective clothing, gloves, and eye/face protection. Wash hands and exposed skin after use.

6.2 Environmental precautions

Do not release large quantities into the surface water or into drains.

6.3 Methods and material for containment and cleaning up

Contain spillages with sand, earth or any suitable adsorbent material. Transfer to a container for disposal.

6.4 Reference to other sections

See Also Section: 8, 13.

7. SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Take off contaminated clothing and wash it before reuse. Do not eat, drink or smoke at the work place.

7.2 Conditions for safe storage, including any incompatibilities

Keep in a well ventilated place. Do not freeze. Perishable if frozen.

Storage temperature

7 - 27 °C

Storage life

6 months: LD571, LD842A.

9 months: LD654, LD671A, LD750.

Incompatible materials

Strong oxidizing agents, Strongly acidic, Aluminum.

7.3 Specific end use(s)

Rubber products.

8. SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note
Potassium hydroxide	1310-58-3				2	
Sodium hydroxide	1310-73-2				2	

8.1.2 Biological limit value None established.

8.1.3 PNECs and DNELs None established.

8.2 Exposure controls

8.2.1 Appropriate Engineering Controls Ensure adequate ventilation. A washing facility/water for eye and skin cleaning purposes should be present.

8.2.2 Personal protection equipment



Eye protection Wear suitable eye/face protection for protection against liquid splashes.



Skin protection Wear protective gloves.



Respiratory protection Normally no personal respiratory protection is necessary. In case of insufficient ventilation, wear suitable respiratory equipment. Respirator with a vapor filter (EN 141).



Thermal hazards Not applicable.

8.2.3 Environmental Exposure Controls Do not release large quantities into the surface water or into drains.

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Liquid.
Color	Milky white.
Odor	Slight, characteristic.
Odor threshold	Not known.
pH	> 12
Melting point / Freezing point	Not known.
Initial boiling point and boiling range	Not known.
Flash point	> 100 °C
Evaporation rate	Not known.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	Not known.
Vapor pressure	Not known.

Vapor density	Not known.
Density	1.11-1.13 g/cm ³ @ 25 °C
Relative density	Not known.
Solubility	Solubility (Water) : Completely miscible with water. Solubility (Other) : Not known.
Partition coefficient: n-octanol / water	Not known.
Auto-ignition temperature	Not known.
Decomposition temperature	Not applicable.
Viscosity	Not applicable.
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

9.2 Other information

Processing temperature	None.
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10. SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Stable under normal conditions.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose.

10.4 Conditions to avoid

Heat and direct sunlight.

10.5 Incompatible materials

Strong oxidizing agents, Strongly acidic, Aluminum.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Oral

Neoprene Liquid Dispersion:
Acute Toxicity Estimate: > 2,000 mg/kg
Method: Calculation method.

1,3-Butadiene, 2-chloro-, homopolymer:
ALD -Approximate Lethal Dose (rat) : 20,000 mg/kg

Resin acids and Rosin acids, potassium salts:
LD50 (rat): > 2,000 mg/kg
Method: OECD Test Guideline 423

Information given is based on data obtained from similar substances.

2,2'-iminodiethanol:
LD50 (rat): 1,600 mg/kg
Method: OECD Test Guideline 401

Potassium hydroxide:

LD50 (rat): 333 mg/kg
Method: OECD Test Guideline 425

Distillates (petroleum), hydrotreated heavy naphthenic (<3% DMSO Extract):
LD50 (rat): > 5,000 mg/kg
Method: OECD Test Guideline 401

The toxicological data has been taken from products of similar composition.

Dermal

Resin acids and Rosin acids, potassium salts:
LD50 (rat): > 2,000 mg/kg
Method: OECD Test Guideline 402

Disulfiram:
LD50 (rabbit): > 2,000 mg/kg
Method: OECD Test Guideline 402

Information given is based on data obtained from similar substances.

2,2'-iminodiethanol:
LD50 (rabbit): 10,737 mg/kg

Distillates (petroleum), hydrotreated heavy naphthenic (<3% DMSO Extract):
LD50 (rabbit): > 5,000 mg/kg
Method: OECD Test Guideline 402

The toxicological data has been taken from products of similar composition.

Skin corrosion / irritation

Neoprene Liquid Dispersion:
Rabbit
Result: No skin irritation.
Method: OECD Test Guideline 404

Exposure time 4h

Resin acids and Rosin acids, potassium salts:
Rabbit
Classification: Not classified as irritant.
Result: No skin irritation.
Method: OECD Test Guideline 404

Information given is based on data obtained from similar substances.

2,2'-iminodiethanol:
Rabbit
Classification: Irritating to skin.
Result: Causes skin irritation.

Potassium hydroxide:
Rabbit
Classification: Corrosive.
Result: Causes severe burns.

Sodium hydroxide:
Multiple species
Classification: Corrosive.
Result: Causes severe burns.

Disulfiram:
Rabbit
Classification: Not classified as irritant.
Result: No skin irritation.
Method: OECD Test Guideline 404

Distillates (petroleum), hydrotreated heavy naphthenic (<3% DMSO Extract):
Rabbit
Classification: Not classified as irritant.
Result: No skin irritation.
Method: OECD Test Guideline 404

The toxicological data has been taken from products of similar composition.

Serious eye damage / irritation

Neoprene Liquid Dispersion:
Rabbit
Result: Irritating to eyes.
Method: OECD Test Guideline 405
Exposure time 72h

Resin acids and Rosin acids, potassium salts:
Rabbit
Classification: Irritating to eyes.
Result: Mild eye irritation.
Method: OECD Test Guideline 405

Information given is based on data obtained from similar substances.

2,2'-iminodiethanol:
Rabbit
Classification: Corrosive.
Result: Corrosive.
Method: OECD Test Guideline 405

Potassium hydroxide:
Rabbit
Classification: Corrosive.
Result: Causes severe burns.
Method: OECD Test Guideline 405

Sodium hydroxide:
Rabbit
Classification: Corrosive.
Result: Corrosive.

Distillates (petroleum), hydrotreated heavy naphthenic (<3% DMSO Extract):
Rabbit
Classification: Not classified as irritant.
Result: No eye irritation.
Method: OECD Test Guideline 405
The toxicological data has been taken from products of similar composition.

Respiratory or skin sensitization

Resin acids and Rosin acids, potassium salts:
Mouse
Classification: Does not cause skin sensitization.
Result: Does not cause skin sensitization.
Method: OECD Test Guideline 429

2,2'-iminodiethanol:
Guinea pig
Classification: Does not cause skin sensitization.
Result: Does not cause skin sensitization.
Method: OECD Test Guideline 406

Potassium hydroxide:
Guinea pig
Classification: Does not cause skin sensitization.
Result: Does not cause skin sensitization.

Sodium hydroxide:
Human
Classification: Does not cause skin sensitization.
Result: Does not cause skin sensitization.

Distillates (petroleum), hydrotreated heavy naphthenic (<3% DMSO Extract):
Guinea pig
Classification: It is not a skin sensitizer.
Result: Did not cause sensitization on laboratory animals.
Method: OECD Test Guideline 406

The toxicological data has been taken from products of similar composition.

Germ cell mutagenicity

Resin acids and Rosin acids, potassium salts:

Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Information given is based on data obtained from similar substances.

2,2'-iminodiethanol:

Animal testing did not show any mutagenic effects.

Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Potassium hydroxide:

Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Evidence suggests this substance does not cause genetic damage in animals.

Sodium hydroxide:

Animal testing did not show any mutagenic effects. Evidence suggests this substance does not cause genetic damage in animals.

Distillates (petroleum), hydrotreated heavy naphthenic (<3% DMSO Extract):

Animal testing did not show any mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Information given is based on data obtained from similar substances.

Carcinogenicity

2,2'-iminodiethanol:

Not classifiable as a human carcinogen.

Animal testing did not show any carcinogenic effects.

Sodium hydroxide:

Not classifiable as a human carcinogen.

Overall weight of evidence indicates that the substance is not carcinogenic.

Distillates (petroleum), hydrotreated heavy naphthenic (<3% DMSO Extract):

Animal testing did not show any carcinogenic effects.

Information given is based on data obtained from similar substances.

Reproductive toxicity

Resin acids and Rosin acids, potassium salts:

Animal testing showed no reproductive toxicity.

Information given is based on data obtained from similar substances.

2,2'-iminodiethanol:

No toxicity to reproduction.

Animal testing showed no reproductive toxicity.

Sodium hydroxide:

No toxicity to reproduction.

No effects on or via lactation.

Evidence suggests the substance is not a reproductive toxin in animals.

Distillates (petroleum), hydrotreated heavy naphthenic (<3% DMSO Extract):

No toxicity to reproduction.

Animal testing showed no reproductive toxicity.

Information given is based on data obtained from similar substances.

STOT - single exposure

None anticipated.

STOT - repeated exposure

Resin acids and Rosin acids, potassium salts:

Oral (rat)

No toxicologically significant effects were found.

Information given is based on data obtained from similar substances.

2,2'-iminodiethanol:

Ingestion (rat)

Kidney effects, Liver effects.

Potassium hydroxide:

Oral (rat)
No toxicologically significant effects were found.

Sodium hydroxide:
Inhalation (rat)
No toxicologically significant effects were found.

Oral (rat)
No toxicologically significant effects were found.

Distillates (petroleum), hydrotreated heavy naphthenic (<3% DMSO Extract):
Inhalation (rat)
No toxicologically significant effects were found.
The toxicological data has been taken from products of similar composition.

Aspiration hazard

Not classified.

11.2 Other information

Teratogenicity

2,2'-iminodiethanol:
Animal testing showed no developmental toxicity.

Potassium hydroxide:
Animal testing showed no developmental toxicity.

Sodium hydroxide:
Evidence suggests the substance is not a developmental toxin in animals.

Note:

Following an assessment of the possible routes of exposure in the use of this product, the route used to collect effects information for one or more components has been shown to be negligible, and therefore, has not been considered in the final hazard classification of the product.

12. SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Fish

No data is available on the product itself.

Resin acids and Rosin acids, potassium salts:
LC50 (96 hour)(Fathead minnow (*Pimephales promelas*)): 1.7 mg/l
Method: OECD Test Guideline 203
Information given is based on data obtained from similar substances.

2,2'-iminodiethanol:
LC50 (96 hour)(Fathead minnow (*Pimephales promelas*)): 880 mg/l

Sodium hydroxide:
LC50 (96 hour)(Guppy (*Poecilia reticulata*)): 56 mg/l

Distillates (petroleum), hydrotreated heavy naphthenic (<3% DMSO Extract):
LC50 (96 hour)(Fathead minnow (*Pimephales promelas*)): >100 mg/l
Method: OECD Test Guideline 203

The toxicological data has been taken from products of similar composition.

Aquatic plants

No data is available on the product itself.

Resin acids and Rosin acids, potassium salts:
ErC50 (72 hour)(Green algae (*Pseudokirchneriella subcapitata*)): 39.6 mg/l
Method: OECD Test Guideline 201

Information given is based on data obtained from similar substances.
NOEC (72 hour) (Green algae (*Pseudokirchneriella subcapitata*)): 6.25 mg/l
Method: OECD Test Guideline 201

Information given is based on data obtained from similar substances.

2,2'-iminodiethanol:
LC50 (96 hour) (Green algae (*Pseudokirchneriella subcapitata*)): 2.2 mg/l

Distillates (petroleum), hydrotreated heavy naphthenic (<3% DMSO Extract):
NOEC (72 hour) (Green algae (*Pseudokirchneriella subcapitata*)): >100 mg/l
Method: OECD Test Guideline 201

The toxicological data has been taken from products of similar composition.

Aquatic invertebrates

Resin acids and Rosin acids, potassium salts:
EC50 (48 hour) (Water flea (*Daphnia magna*)): >100 mg/l
Method: OECD Test Guideline 202

Information given is based on data obtained from similar substances.

2,2'-iminodiethanol:
EC50 (48 hour) (Water flea (*Daphnia magna*)): 55 mg/l

Potassium hydroxide:
EC50 (48 hour) (Water flea (*Daphnia magna*)): 660 mg/l

Sodium hydroxide:
EC50 (48 hour) (Water flea (*Ceriodaphnia dubia*)): 40 mg/l

Distillates (petroleum), hydrotreated heavy naphthenic (<3% DMSO Extract):
EC50 (48 hour) (Water flea (*Daphnia magna*)): >10,000 mg/l
Method: OECD Test Guideline 202

The toxicological data has been taken from products of similar composition.

Aquatic invertebrates - Chronic

2,2'-iminodiethanol:
NOEC (21 days)(Water flea (*Daphnia magna*)): 0.78 mg/l

12.2 Persistence and Degradation

Biodegradability

Resin acids and Rosin acids, potassium salts:
Method: OECD Test Guideline 302B
Biodegradable.

2,2'-iminodiethanol:
Method: OECD Test Guideline 301F
Biodegradable.

Potassium hydroxide:
The methods for determining the biological degradability are not applicable to inorganic substances.

Distillates (petroleum), hydrotreated heavy naphthenic (<3% DMSO Extract):
Biodegradation: 31 %/ 28 days
Method: OECD Test Guideline 301
Inherently biodegradable.

Information given is based on data obtained from similar substances.

12.3 Bioaccumulative potential

Bioaccumulation

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

Not classified as PBT or vPvB.

12.6 Other adverse effects

Not known.

13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of empty containers and wastes safely. Send to a licensed recycler, reclaimer, or incinerator.

13.2 Additional Information

Disposal should be in accordance with local, state, or federal legislation. Do not contaminate ponds, waterways, or ditches with chemical or used container.

14. SECTION 14: TRANSPORT INFORMATION

Not classified as hazardous for transport.

15. SECTION 15: REGULATORY INFORMATION

15.1 Safety, health, and environmental regulations/legislation specific for the substance or mixture

US Regulations

TSCA Status

In compliance with TSCA Inventory requirements for commercial purposes.

SARA 313 Regulated Chemical(s)

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

PA Right to Know Regulated Chemical(s)

Substances on the Pennsylvania Hazardous Substances List present at a concentration of 1% or more (0.01% for Special Hazardous Substances): Rosin

NJ Right to Know Regulated Chemical(s)

No components present on the NJ state hazardous substance lists.

California Prop. 65

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

CERCLA Reportable Quantity

23,272 lbs, based on percentage composition of 2,2'-iminodiethanol (LD571).
157,109 lbs, based on percentage composition of potassium hydroxide (LD654).
152,742 lbs, based on percentage composition of potassium hydroxide (LD671A).
21,119 lbs, based on percentage composition of 2,2'-iminodiethanol (LD842A).

European Regulations - Authorizations and/or Restrictions on Use

Candidate List of Substances of Very High Concern for Authorization

All chemicals are not listed.

REACH: ANNEX XIV list of substances subject to authorization

All chemicals are not listed.

REACH: Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures, and

articles

All chemicals are not listed.

Community Rolling Action Plan (CoRAP)

All chemicals are not listed.

Regulation (EC) N° 850/2004 of the European Parliament and of the Council on persistent organic pollutants

All chemicals are not listed.

Regulation (EC) N° 2037/2000 on substances that deplete the ozone layer

All chemicals are not listed.

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

All chemicals are not listed.

15.2 Chemical Safety Assessment

Not applicable.

16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 7.2

LEGEND:

Hazard Statement(s)

H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H315: Causes skin irritation.
H318: Causes serious eye damage.
H319: Causes serious eye irritation.
H373: May cause damage to organs through prolonged or repeated exposure
H412: Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

P362+P364: Take off contaminated clothing and wash it before reuse.

Acronyms

CAS: Chemical Abstracts Service
DNEL: Derived No Effect Level
LTEL: Long term exposure limit
PBT: Persistent, Bioaccumulative and Toxic
PNEC: Predicted No Effect Concentration
STEL: Short term exposure limit
STOT: Specific Target Organ Toxicity
vPvB: very Persistent and very Bioaccumulative

Restrictions for Use

Do not use Denka materials in medical applications involving implantation in the human body or contact with internal body fluids or tissues unless the material has been provided from Denka under a written contract that is consistent with Denka policy regarding medical applications and expressly acknowledges the contemplated use. For further information, please contact your Denka representative.

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Neoprene polychloroprene
SAFETY DATA SHEET

Annex to the extended Safety Data Sheet (eSDS)

Not applicable.

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