

ACCORDING TO U.S. REGULATIONS AND EC REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

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

1.1 Product identifier

Product Name Neoprene polychloroprene.
Product Code W, WM-1, WHV, WHV-100, WHVA-120, AD, AD 20, AD 30, AD 40, AD 50, WRT, WD, TW, TW-100, WB, NPR2008, GRT, GRT M1, GRT M2, GNA, GNA M1, GNA M2, GW, GW M2.
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)

2. SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Regulation (EC) No. 1272/2008 (CLP) Not classified as dangerous for supply/use.

2.2 Label elements

According to Regulation (EC) No. 1272/2008 (CLP)
Product Name Neoprene polychloroprene.
Hazard Pictogram(s) None.
Signal Word(s) None.
Hazard Statement(s) None.
Precautionary Statement(s) None.

2.3 Other hazards

Contains: Rosin. May produce an allergic reaction.
During drying, cleaning and molding, small amounts of hazardous gases and/or particulate matter may be released. These may irritate eyes, nose, and throat.

2.4 Additional Information

Chloroprene rubber revealed no sensitizing properties in guinea pigs in a MAXIMIZATION TEST.
Safety data sheet available on request.

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.	EC No.	%W/W	Hazard Statement(s)	Hazard Pictogram(s)
1,3-butadiene, 2-chloro-, homopolymer	9010-98-4	618-463-8		Not classified	
2-chloro-1, 3-butadiene / 2, 3-dichlorobutadiene copolymer	25067-95-2	None assigned		Not classified	
Copolymer of chloroprene and sulfur	37450-42-3	None assigned		Not classified	
Rosin	8050-09-7	232-475-7		Skin Sens. 1; H317	GHS07
Disulfiram	97-77-8	202-607-8		Acute Tox. 4; H302 Skin Sens. 1; H317 Acute Tox. 4; H332 STOT RE 2; H373 Aquatic Acute 1; H400 (M=10) Aquatic Chronic 1; H410 (M=10)	GHS08 GH07 GHS09
Talc	14807-96-6	238-877-9		Not classified	

REACH Registration No.:

2-chloro-1,3-butadiene (REACH Registration No.01-2119517567-33-0011) is the starting monomer.

2,3-dichloro-butadiene (REACH Registration No.01-2119517568-31-0005) is the starting monomer.

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 skin with soap and water. Cool skin rapidly with cold water after contact with hot polymer. Do not peel polymer from the skin.
Eye Contact	Flush eyes with water for at least 15 minutes while holding eyelids open.
Ingestion	Wash out mouth with water.

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

Unlikely to be required but if necessary, treat symptomatically.

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. Avoid dust generation. Wear gloves, eye protection and an approved dust mask if dust is generated during handling. 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

Sweep or shovel-up spillage and remove to a safe place. 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

Provide adequate ventilation. Avoid generation of dust. Wear protective equipment to comply with good occupational hygiene practice. Wash hands and exposed skin after use. Do not eat, drink, or smoke at the workplace.

7.2 Conditions for safe storage, including any incompatibilities

Keep in a cool, dry, well ventilated place. Keep containers dry and tightly closed to avoid moisture absorption and contamination.

Storage temperature

7 - 27 °C

Storage life

24 months: AD, NPR2008, WHVA120.

18 months: TW, TW100, W, WB, WD, WHV, WHV100, WM1, WRT.

Storage temperature

7 - 18 °C

Storage life

12 months: GNA, GRT, GW.

Incompatible materials

Strong oxidizing agents.

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
Rosin	8050-09-7		0.05		0.15	Sen
Talc (Respirable Dust)	14807-96-6		1			

Region	Source
United Kingdom	Workplace Exposure Limit (UK HSE EH40)

Remark	Notes
Sen	Capable of causing occupational asthma.

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.



Skin protection Wear: Nitrile rubber.



Respiratory protection Normally no personal respiratory protection is necessary. Wear suitable respiratory protective equipment if exposure to levels above the occupational exposure limit is likely.



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	Solid (Chips).
Color	Off-white, tan.
Odor	Slight, characteristic.
Odor threshold	Not known.
pH	Not applicable.
Melting point / Freezing point	Not known.
Initial boiling point and boiling range	Not applicable.
Flash point	> 260 °C
Evaporation rate	Not applicable.

Flammability (solid, gas)	Non-flammable.
Upper/lower flammability or explosive limits	Not applicable.
Vapor pressure	Not applicable.
Vapor density	Not applicable.
Density	1.23-1.25 g/cm ³
Relative density	Not known.
Solubility	Solubility (Water) : Insoluble. Solubility (Other) : Not known.
Partition coefficient: n-octanol / water	Not known.
Auto-ignition temperature	Not known.
Decomposition temperature	> 200 °C
Viscosity	Not applicable.
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

9.2 Other information

Processing temperature	> 200 °C
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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

Secondary amines may form nitrosamines under certain conditions.

10.4 Conditions to avoid

Heat and direct sunlight. Avoid heating for prolonged periods above the recommended upper processing limit.

10.5 Incompatible materials

Strong oxidizing agents.

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 polychloroprene:
Acute Toxicity Estimate: > 2,000 mg/kg
Method: Calculation method.

Rosin:

LD50 (rat): > 2,800 mg/kg

Disulfiram:

LD50 (rat): > 1,860 mg/kg

Inhalation	<p>Neoprene polychloroprene: Acute Toxicity Estimate: > 5 mg/l Method: Calculation method.</p> <p>Disulfiram: LC50 (rat)(4h): 3.464 mg/l Method: US EPA Test Guideline OPP 81-3</p> <p>Information given is based on data obtained from similar substances.</p>
Dermal	<p>Rosin: LD50 (rat): > 2,000 mg/kg Method: OECD Test Guideline 402</p> <p>Disulfiram: LD50 (rabbit): > 2,000 mg/kg Method: OECD Test Guideline 402</p>
Skin corrosion / irritation	<p>Rosin: Rabbit Classification: Not classified as irritant. Result: No skin irritation. Method: OECD Test Guideline 404 Slight irritation.</p> <p>Disulfiram: Rabbit Classification: Not classified as irritant. Result: No skin irritation. Method: OECD Test Guideline 404</p>
Serious eye damage / irritation	<p>Rosin: Rabbit Classification: Not classified as irritant. Result: No eye irritation. Method: OECD Test Guideline 405 Slight irritation.</p> <p>Disulfiram: Rabbit Classification: Not classified as irritant. Result: No eye irritation. Method: OECD Test Guideline 405</p>
Respiratory or skin sensitization	<p>It is not a skin sensitizer. Animal test did not cause sensitization by skin contact. (Data on the product itself).</p> <p>Neoprene polychloroprene: Guinea pig Classification: Not classified as skin sensitization. Result: No skin sensitization. Method: OECD Test Guideline 406</p> <p>The result of maximization test was less than 15%.</p> <p>Rosin: Animals (unspecified species) Classification: Skin sensitization. Result: May cause sensitization by skin contact.</p> <p>Disulfiram: Guinea pig Classification: Probability or evidence of low to moderate skin sensitization rate in humans. Result: May cause sensitization by skin contact. Method: US EPA Test Guideline OPP 81-6</p> <p>Information given is based on data obtained from similar substances.</p>
Germ cell mutagenicity	<p>Rosin: Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Evidence suggests this substance does not cause genetic damage in animals.</p> <p>Disulfiram: Animal testing did not show any mutagenic effects. Did not cause genetic damage in cultured bacterial cells. Genetic damage in cultured mammalian cells was observed in some laboratory tests but not in others.</p>

Information given is based on data obtained from similar substances.

Carcinogenicity

Rosin:
Not classifiable as a human carcinogen.
Animal testing did not show any carcinogenic effects.
Disulfiram:
Not classifiable as a human carcinogen.
Animal testing did not show any carcinogenic effects.

Reproductive toxicity

Rosin:
No toxicity to reproduction.
Animal testing showed no reproductive toxicity.
Disulfiram:
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

Rosin:
Oral (rat)
Method: OECD Test Guideline 407
No toxicologically significant effects were found.
Disulfiram: Oral (dog)
NOAEL: 0.84 mg/kg
Central nervous system effects, Liver effects.
Information given is based on data obtained from similar substances.

Aspiration hazard

Not classified.

11.2 Other information

Teratogenicity

Rosin:
Animal testing showed no developmental toxicity.
Disulfiram:
Animal testing showed no developmental toxicity.
Information given is based on data obtained from similar substances.

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

Rosin:
LC50 (96 hour)(Zebra fish (*Danio rerio*)): 60.3 mg/l
Method: OECD Test Guideline 203

Aquatic plants

Rosins:
EC50 (72 hour)(Green algae (*Pseudokirchneriella subcapitata*)): >1,000 mg/l
Method: OECD Test Guideline 201
NOEC (72 hour) (Green algae (*Pseudokirchneriella subcapitata*)): >1,000 mg/l
Method: OECD Test Guideline 201
Disulfiram:
EbC50 (72 hour)(Green algae (*Pseudokirchneriella subcapitata*)): 0.065 mg/l
Method: OECD Test Guideline 201

Information given is based on data obtained from similar substances.

Aquatic invertebrates

Rosin:
EC50 (48 hour) (Water flea (*Daphnia magna*)): 911 mg/l
Method: OECD Test Guideline 202
Disulfiram:
EC50 (48 hour) (Water flea (*Daphnia magna*)): 0.15 mg/l

Microorganisms

Disulfiram:
0.25h (*Photobacterium phosphoreum*): 1.21 mg/l

Fish - Chronic

Disulfiram:
NOEC (33 days)(Fathead minnow (*Pimephales promelas*)): 0.0046 mg/l Method: OECD Test Guideline 210

Information given is based on data obtained from similar substances.

Aquatic invertebrates - Chronic

Disulfiram:
NOEC (21 days) (Water flea (*Daphnia magna*)): 0.04 mg/l
Method: OECD Test Guideline 211

Information given is based on data obtained from similar substances.

12.2 Persistence and Degradation

Biodegradability

Rosin:
Rapidly biodegradable.
Disulfiram:
Method: OECD Test Guideline 301D Not biodegradable.
Not readily biodegradable.

Information given is based on data obtained from similar substances.

12.3 Bioaccumulative potential

Bioaccumulation

Rosin:
Bioaccumulation is unlikely.
Disulfiram:

Information given is based on data obtained from similar substances.

12.4 Mobility in soil

No data available.
According to data on similar materials, and from modelling assessment, the product is not considered to require classification as dangerous to the environment.

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. Incinerate only in incinerators capable of scrubbing out acidic combustion products.

13.2 Additional Information

Disposal should be in accordance with local, state, or federal legislation.

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

Not applicable.

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 Pictogram(s)



Hazard Statement(s)

H302: Harmful if swallowed.
H317: May cause an allergic skin reaction.
H332: Harmful if inhaled.
H373: May cause damage to organs through prolonged or repeated exposure
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.

Acronyms

CAS: Chemical Abstracts Service
CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DNEL: Derived No Effect Level
EC: European Community
EINECS: European Inventory of Existing Commercial Chemical Substances
LTEL: Long term exposure limit
PBT: Persistent, Bioaccumulative and Toxic
PNEC: Predicted No Effect Concentration
REACH: Registration, Evaluation, Authorization and Restriction of Chemicals
STEL: Short term exposure limit
STOT: Specific Target Organ Toxicity
vPvB: very Persistent and very Bioaccumulative

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Annex to the extended Safety Data Sheet (eSDS)

Not applicable.

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