



SAFETY DATA SHEET

According to 29 CFR 1910.1200(g)

DENSO DENSYL TAPE

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name Denso Densyl Tape

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

Product Use Industrial use as a protective barrier in prevention of corrosion.

Restricted Use Not intended for use by general public.

1.3. Details of the supplier of the safety data sheet

Company Denso North America

Address 9747 Whithorn Drive
Houston, TX 77095

Web www.densona.com

Telephone 1 (281) 821-3355

Fax 1 (281) 821-0304

Email info@densona.com

1.4. Emergency telephone number

Emergency telephone number (24 Hour) 1-801-629-0667

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

2.1.1. Health No significant hazard

2.1.2. Environmental No significant hazard

2.1.3. Physical No significant hazard

2.2. Label elements

Hazard pictograms

Signal Word

Hazard statement No significant hazard.

Precautionary Statement: Prevention No significant hazard.

Precautionary Statement: Response No significant hazard.

Precautionary Statement: Disposal No significant hazard.



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SECTION 3: Composition/information on ingredients

3.1. Substances

Chemical Name	CAS No.	Concentration (%w/w)	Classification
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NOTES: This product does not contain any substances classified as hazardous to health.

SECTION 4: First aid measures

4.1. General advice	Seek medical advice. If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately.
4.2. Eye contact	Immediately flush eyes with plenty of water for at least 15 minute, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention.
4.3. Skin contact	Wash with soap and water. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse. For contact with hot product, flush contaminated skin with large amounts of cold water to dissipate heat. Cover with clean cotton sheeting or gauze. Get medical attention immediately.
4.4. Ingestion	Wash out mouth with water. If material has been swallowed and the exposure person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
4.5 Inhalation	Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt, or waistband.
4.6. Most important symptoms and effects, both acute and delayed	
Eye contact	May cause irritation to eyes.
Skin contact	May cause irritation to skin.
Ingestion	May cause nausea and vomiting
Inhalation	Product is solid. Inhalation may cause difficulty breathing or suffocation.



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SECTION 5: Firefighting measures

5.1. Suitable extinguishing media	Alcohol-resistant foam, Carbon dioxide (CO ₂), Dry chemical, Dry sand, Limestone powder. Do not use a solid water stream as it may scatter and spread fire.
5.2. Specific hazards	Decomposition products may include the following materials: carbon dioxides. Downwind personnel must be evacuated. Burning produces noxious and toxic fumes.
5.3. Special protective equipment for fire-fighters	Fire-fighters should wear appropriate personal protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6: Accidental release measures

6.1. Personal precautions	No action shall be taken involving any personal risk or without suitable training. As this product is a solid, simply wear protective gloves and recover material from release area (see section 8).
6.2. Environmental precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
6.3. Methods for cleaning up	Prevent entry into sewers or water courses. Collect spillage.
6.4. Additional advice	Note: see Section 8 for personal protective equipment and Section 13 for waste disposal.

SECTION 7: Handling and storage

7.1. Handling	Put on appropriate personal protective equipment (see Section 8). Adopt best manual handling practices when handling, carrying and dispensing.
7.2. Storage	Store in accordance with local regulations. Store in original container protected from direct sunlight in a cool area, away from sparks, flames, heat and sources of ignition.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters	
8.1.1. Exposure Limit Values	Not regulated.
8.2. Control measures / Personal Protection	
8.2.1. Recommended monitoring procedures	None required.
8.2.2. Engineering measures	None required.
8.2.3. Hygiene measures	Wash hands, forearms, and face after handling chemical products, before eating, smoking or using the lavatory and at the end of the working period.



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8.2.4. Respiratory protection	None required.
8.2.5. Eye protection	None required.
8.2.6. Skin protection	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. This equipment may include, but is not limited to, impervious gloves. The breakthrough time of the selected protective glove(s) must be greater than the intended use period.
8.2.7. Environmental exposure controls	None required.

SECTION 9: Physical and chemical properties

Form	Solid	Vapor Pressure	ND
Color	Brown	Relative vapor density	N/A
Odor	Mild	Relative density	>1
Odor threshold	ND	Water solubility	Insoluble
pH	about 7	Partition coefficient (n-octanol/water)	ND
Melting point	>140°F (60°C)	Auto-ignition temperature	ND
Boiling point	ND	Decomposition temperature	ND
Flash Point	>200°F (93°C)	Viscosity	N/A
Evaporation rate	N/A	Oxidizing	N/A
Flammable Limits	ND	Explosion Limits	ND

SECTION 10: Stability and reactivity

10.1 Stability	The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.
10.2. Conditions to avoid	Stable under normal conditions.
10.3. Materials to avoid	Keep away from food, drink and animal foodstuffs.
10.4. Other hazards	Keep away from heat, sparks, and open flames.
10.5. Hazardous decomposition products	Will not decompose if stored and used as recommended. If decomposition occurs, products may include the following materials: Carbon oxides

SECTION 11: Toxicological information

11.1. Acute health hazard	Product: Acute oral toxicity: ND Acute dermal toxicity: ND
11.2. Skin corrosion or irritation	Product: Remarks: None expected, but may be irritating to skin in susceptible persons.



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11.3. Serious eye damage or irritation	Product: Remarks: None expected, but may be irritating to the eye in susceptible persons if direct contact occurs.
11.4. Respiratory or skin sensitization	Product: Remarks: None expected.
11.5. Germ cell mutagenicity	Product: Remarks: Not likely to have significant mutagenic effects based on components.
11.6. Carcinogenicity	Product: Remarks: Not likely to be classifiable as a human carcinogen based on components.
11.7. Reproductive toxicity	Product: Remarks: Not likely to have adverse effects on sexual function, fertility, and/or on development based on components.
11.8. STOT – single exposure	Product: Remarks: None known, but irritation to skin and eyes is possible in susceptible persons.
11.9. STOT – repeated exposure	Product: Remarks: None known, but irritation to skin and eyes is possible in susceptible persons.
11.10. Repeated dose toxicity	Product: Remarks: None known.
11.11. Aspiration toxicity	Product: Remarks: None known
11.12. Further information	Likely routes of exposure – skin and eye contact.

SECTION 12: Ecological information

12.1. Ecotoxicity	Product: Remarks: No data available.
12.2. Persistence and degradability	Product: Remarks: No data available.
12.3. Bioaccumulative potential	Product: Remarks: No data available.
12.4. Mobility in soil	Product: Remarks: No data available.



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12.5. Other adverse effects

Product:

Remarks: No data available. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13: Disposal considerations

13.1. Waste disposal

The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional and local authority requirements. Avoid disposal of spilled material and runoff and contaminated soils in waterways, drains or sewers. Dispose of contaminated containers, soils, etc. in compliance with the requirements of environmental protection and waste disposal legislation and any regional and local authority requirements. Empty any remaining contents from packaging prior to disposal and dispose of as unused product. Do not reuse empty containers.

SECTION 14: Transport information

14.1. UN number

Not Regulated

14.2. UN proper shipping name

Not Regulated

14.3. Transport hazard class

International Carriage of Dangerous Good by Road/Rail

ADR/RID: Not Regulated

International Maritime

Dangerous Goods

IMDG: Not Regulated

International Air Transport

Association

IATA: Not Regulated

US Code of Federal

Regulations

CFR Not Regulated

Canadian Transportation of

Dangerous Goods

TDG: Not Regulated

US Department of

Transportation

DOT: Not Regulated

14.4. Packing group

Not regulated

14.5. Environmental hazards

Environmental hazards: No

Marine pollutant: No

SECTION 15: Regulatory information

15.1. OSHA Hazards

None



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15.2. CERCLA Reportable Quantity	Components	CAS No.	Component RQ	Product RQ
15.2. CERCLA Reportable Quantity	None			
15.3. SARA 314 Extremely Hazardous Substances Reportable Quantity	This material does not contain any components with section 314 EHS RQ.			
15.4. SARA 311/312 Hazards	None			
15.5. SARA Title III, Section 302 Reporting	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.			
15.6. SARA Title III, Section 313 Reporting	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 313			
15.7. Clean Air Act	The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61): None			
	This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).			
	The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489): None			
15.8. Clean Water Act	The following Hazardous Substances are listed under the U.S. Clean Water Act, Section 311, Table 116.4A: None			
	The following Hazardous Substances are listed under the U.S. Clean Water Act, Section 311, Table 117.3: None			
	This product contains the following toxic pollutants listed under the U.S. Clean Water Act, Section 307: None			
15.9. US State Regulations	Massachusetts Right-To-Know	None		
	Pennsylvania Right-To-Know	None		
	New Jersey Right-To-Know	None		
	California Prop 65			
	This product contains no chemicals known to the State of California to cause cancer or act as a reproductive hazard.			
15.10. International Chemical Inventory Listing				
TSCA (US)	Yes (All components of this product are on US inventory)			
DSL (Canada)	Yes (All components of this product are on Canadian inventory)			
AICS (Australia)	Yes (On Australian inventory or in compliance with inventory)			
ICS (New Zealand)	Yes (On New Zealand inventory or in compliance with inventory)			



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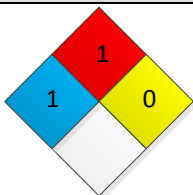
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ENCS (Japan)	Yes (On Japanese inventory or in compliance with inventory)
ISHL (Japan)	Yes (On Japanese inventory or in compliance with inventory)
KECI (Korea)	Yes (On Korean inventory or in compliance with inventory)
PICCS (Philippines)	Yes (On Philippine inventory or in compliance with inventory)
IECSC (China)	Yes (On Chinese inventory or in compliance with inventory)

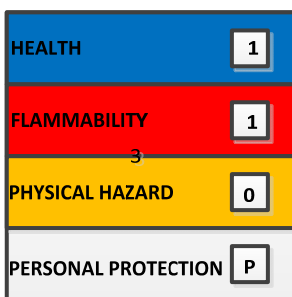
15.11. WHMIS Hazard Classification (Canada)
None.

SECTION 16: Other information

16.1. NFPA



16.2. HMIS®



Caution: HMIS ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS ratings are not required on SDS's under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS ratings are to be used with a fully implemented HMIS program. HMIS is a registered mark of the National Paint & Coatings Association (NPCA). HMIS materials may be purchased exclusively from J.J. Keller (800) 327-6868. The customer is responsible for determining the PPE code for this material.

16.3. Text of Risk phrases in Section 3

16.4. Text of Hazard statements in Section 3

16.5. Notice to Reader

The information provided herein was believed by Denso North America ("Denso") to be accurate at the time of preparation and prepared from sources believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information, to comply with all laws and procedures applicable to the safe handling and use of the product and to determine the suitability of the product for its intended use. All products supplied by Denso are subject to Denso's terms and conditions of sale. DENSO MAKES NO WARRANTY, EXPRESS OR IMPLIED,



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16.6. Key/Legend to abbreviations and acronyms used in the safety data sheet

CONCERNING THE PRODUCT OR THE MECHANABILITY OR FITNESS THEREOF FOR ANY PURPOSE OR CONCERNING THE ACCURACY OF ANY INFORMATION PROVIDED BY DENSO, except that the product shall conform to Denso's specifications. Nothing contained herein constitutes an offer for the sale of any product.

ACGIH	American Conference Government Industrial Hygienists
AICS	Australia, Inventory of Chemical Substances
DSL	Canada, Domestic Substances List
NDSL	Canada, Non-Domestic Substances List
CAS	Chemical Abstract Service
CNS	Central Nervous System
EC50	Effective Concentration 50%
EGEST	EOSCA Generic Exposure Scenario Tool
EOSCA	European Oilfield Specialty Chemicals Association
EINECS	European Inventory of Existing Chemical Substances
ENCS	Japan, Inventory Existing and New Chemical Substances
GHS	Global Harmonization System
IDLH	Immediately Dangerous for Life and Health Concentrations
IARC	International Agency for Research on Cancer
IC50	Inhibition Concentration 50%
IECSC	Inventory of Existing Chemical Substances in China
KECI	Korea, Existing Chemical Inventory
LC50	Lethal Concentration 50%
LD50	Lethal Dose 50%
LOAEL	Lowest Observed Adverse Effect Level
MAK	Germany Maximum Concentration Values
N/A	Not Applicable
ND	Not Determined
NFPA	National Fire Protection Agency
NIOSH	National Institute for Occupational Safety & Health
NOAEL	No Observable Adverse Effect Level
NOEC	No Observed Effect Concentration
NTP	National Toxicology Program
NZIoC	New Zealand Inventory of Chemicals
OSHA	Occupational Safety & Health Administration
PEL	Permissible Exposure Limit
PICCS	Philippines Inventory Commercial Chemical Substances
PRNT	Presumed Not Toxic
RCRA	Resource Conservation Recovery Act
SARA	Superfund Amendments and Reauthorization Act
STEL	Short-Term Exposure Limit
TLV	Threshold Limit Value
TSCA	Toxic Substance Control Act
TWA	Time Weighted Average
UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials



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WHMIS Workplace Hazardous Materials Information System

16.7. Prepared by

Denso EH & S Department

16.8. Telephone

1-281-821-3355 Corporate
1-801-629-0667 Emergency (24 hour)