



SAFETY DATA SHEET

According to 29 CFR 1910.1200(g)
& Canadian WHMIS 2015

DENSO PASTE

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

1.1. Product identifier

Product name Denso Paste

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

Product Use Industrial use as a primer used with 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 Inc.

Address 90 Ironside Crescent, Unit 12
Toronto, ON M1X1M3

Web www.densona.com

Telephone 1 (416) 291-3435

Fax 1 (416) 291-0898

Email sales@densona-ca.com

1.4. Emergency telephone number

Emergency telephone number (24 Hour) Canutec 1 (613) 966-6666

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 |
|-------------------|------------|----------------------|---|
| Alkyl amine | 61791-53-5 | 0-0.5% | Skin Irr 2: H315 Eye Irr 2: H319 STOT RE 2: H373 Aq. Acute 1: H400 |
| Light mineral oil | 64742-65-0 | 20-30% | Asp Tox 1: H304 |

NOTES:

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



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| | |
|--------------|---|
| Eye contact | May cause irritation to eyes. |
| Skin contact | May cause irritation to skin. |
| Ingestion | May cause nausea and vomiting. |
| Inhalation | Product is a paste. Inhalation may cause difficulty breathing or suffocation. |

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. Do not flush into surface water. |
| 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 paste, simply wear protective gloves and recover material from release area (see section 8). Surfaces contaminated with the product will become slippery. |
| 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. Do not flush into surface water. Absorb with inert, absorbent material. Dispose of inert material following all relevant disposal regulations |
| 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



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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.

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 | Paste | 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 | 131°F (55°C) | Auto-ignition temperature | ND |
| Boiling point | ND | Decomposition temperature | ND |
| Flash Point | 320°F (160°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. |



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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.

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.



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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. Components: 64742-65-0 Remarks: Partition coefficient >3 |
| 12.4. Mobility in soil | Product: Remarks: No data available. |
| 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 |



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International Maritime
Dangerous Goods
International Air Transport
Association
US Code of Federal
Regulations
Canadian Transportation of
Dangerous Goods
US Department of
Transportation

IMDG: Not Regulated

IATA: Not Regulated

CFR Not Regulated

TDG: Not Regulated

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

15.2. CERCLA Reportable
Quantity

| Components | CAS No. | Component RQ | Product RQ |
|------------|---------|--------------|------------|
| 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



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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

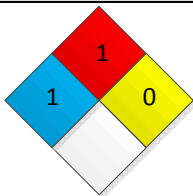
| | |
|---------------------|--|
| TSCA (US) | Yes (All components of this product are on US inventory) |
| DSL (Canada) | Yes (All components of this product are on Canadian inventory) |
| AICS (Australia) | Yes (On Australian inventory or in compliance with inventory) |
| ICS (New Zealand) | Yes (On New Zealand inventory or in compliance with inventory) |
| 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)

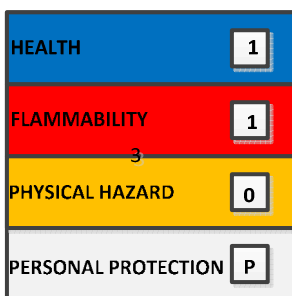
None.

SECTION 16: Other information

16.1. NFPA



16.2. HMIS®





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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

H315 – Causes skin irritation.
H319 – Causes serious eye irritation.
H373 – May cause damage to organs through prolonged or repeated exposure.
H400 – Very toxic to aquatic life.
H304 – May be fatal if swallowed and enters airways.

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, 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.

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

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



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| | |
|-------|--|
| 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 |
| WHMIS | Workplace Hazardous Materials Information System |

16.7. Prepared by

Denso EH & S Department

16.8. Telephone

1 (416) 291-3435 Corporate
1 (613) 996-6666 Emergency (24 hour)