



Material Safety Data Sheet

DATE: 5/15/2013

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name DENSO PASTE HT
Product Use Description Primer for Corrosion Protection
Manufacturer / Importer/ Distributor Denso North America
9747 Whithorn Drive
Houston, Texas 77095
281-821-3355 (Office)
281-821-0304 (Fax)
Telephone 1-281-821-3355 Corporate
1-888-821-2300 Toll Free Number
Emergency Telephone Number (24Hour) 1-801-629-0667

2. HAZARDS IDENTIFICATION

Emergency Overview **WARNING!**
Irritant
May cause skin irritation.
May cause allergic skin reaction
Heated material can cause thermal burns.

Potential Health Effects
Inhalation Not expected to be harmful under normal conditions of use.
Ingestion Not expected to be harmful under normal conditions of use.
Eye contact Not expected to be harmful under normal conditions of use.
Heated material can cause thermal burns.
Skin contact Irritating to skin. May cause allergic skin reaction.
Heated material can cause thermal burns.
Target Organs Skin.
Chronic Effects Prolonged or repeated contact may irritate the skin, causing dermatitis, or dry the skin, causing cracking. Not listed or regulated by IARC, NTP, OSHA, or ACGIH. No reproductive effects expected.
Signs and Symptoms Repeated and/or prolonged exposure may cause skin irritation and redness.
Potential environmental effects No data is available.
Aggravated Medical Condition Pre-existing skin disorders may be aggravated by over-exposure to this product.
See section 11 for more detailed toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Components	CAS Number	Concentration
Base Oil	N/A	30-50%
Calcium sulfonate	N/A	15-30%
Zinc compound	N/A	0-2%
Proprietary additives	N/A	20-40%

CHEMICAL FAMILY : Oil Mixture

Amounts specified are typical and do not represent a specification. Remaining components are proprietary, non-hazardous, and/or present at amounts below reportable limits.

Material Safety Data Sheet

DATE: 5/15/2013

4. FIRST AID MEASURES

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.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention.
Skin contact	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. 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.
Ingestion	Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed 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.
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.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Alcohol-resistant foam. Carbon dioxide (CO ₂) Dry chemical. Dry sand. Limestone powder.
Chronic Health Hazard	Decomposition products may include the following materials: carbon dioxides. Downwind personnel must be evacuated. Burning produces noxious and toxic fumes.
Special protective equipment for fire-fighters	Avoid contact with the skin. Fire-fighters should wear appropriate personal protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Further information	Do not allow run-off from fire fighting to enter drains or water courses.

Material Safety Data Sheet

DATE: 5/15/2013

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	No action shall be taken involving any personal risk or without suitable training. Put on appropriate personal protective equipment (see Section 8).
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).
Methods for cleaning up	Wearing appropriate personal protective equipment (see Section 8), pick up spilled material. If contaminated, dispose of via a licensed waste disposal contractor. See section 13 for waste disposal.
Additional advice	None.

7. HANDLING AND STORAGE

Handling	Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking or smoking. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Use only with adequate ventilation. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use.
Storage	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.
Technical Precautions	None.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Consult local authorities for accepted exposure limits.	
Recommended monitoring procedures	If this product contains ingredients with exposure limits, personal workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.
Engineering measures	Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing or discard as necessary. Ensure that eyewash stations and safety showers are close to the workstation location.
Respiratory Protection	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicated this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Eye Protection	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. This may include, but is not limited to, safety glasses, goggles and face shields.

Material Safety Data Sheet

DATE: 5/15/2013

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, gauntlets, impervious shoes/boots, and protective clothing. The breakthrough time of the selected protective glove(s), shoes, and clothing must be greater than the intended use period.
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. Environmental exposure controls may also include dikes or other liquid containment devices.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Semi-solid paste	Auto-ignition temperature	N/A
Color	Brown.	Odor threshold	N/A
Odor	N/A	Evaporation rate	N/A
Flammable Limits	N/A	Viscosity	N/A
Relative vapor density	N/A	pH	7
Relative Density	1.08	Boiling point/range	N/A
Vapor Pressure	N/A	Flash point	N/A
Density at 70°F (21°C)	9.00 lb/gal	Water solubility	Negligible

10. STABILITY AND REACTIVITY

Stability	The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.
Conditions to avoid	Heat and Open Flame.
Materials to avoid	Explosive, reactive or incompatible with the following materials: N/A
Other hazards	None.
Hazardous decomposition products	Decomposition products may include the following materials: Carbon oxides

11. TOXICOLOGICAL INFORMATION

Acute Health Hazard		
Other toxicological information	Carcinogenicity	This product has no carcinogens listed by IARC, NTP, NIOSH, OSHA, or ACGIH, as of this date, greater or equal to 0.1%.
Eye irritation/corrosion		Irritating to the eye.
Skin irritation/corrosion		Irritating to skin. May cause dermatitis.
Sensitization		None.



Material Safety Data Sheet

DATE: 5/15/2013

Inhalation	None.
Ingestion	Swallowing can cause abdominal irritation, nausea, vomiting & diarrhea.
Chronic Health Hazard	None.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Aquatic toxicity	No data is available on the product itself.
Toxicity to other organisms	No data available.

Persistence and degradability

Biodegradability	No data is available on the product itself.
Mobility	No data available.
Bioaccumulation	No data is available on the product itself.

13. DISPOSAL CONSIDERATIONS

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 contact with soil, waterways, drains and 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.
----------------	--

14. TRANSPORT INFORMATION

The data provided in this section is for information only and may not be specific to your package size or mode of transport. You will need to apply the appropriate regulations to properly classify your shipment for transportation. For complete transportation information, contact an Denso customer service representative.

Regulatory Information	UN/ID No.	Proper shipping name	Class or Division Packing group	Reportable Quantities
CFR	N/A	Not Regulated	N/A	N/A
TDG	N/A	Not Regulated	N/A	N/A
IMO/IMDG	N/A	Not Regulated	N/A	N/A
IATA	N/A	Not Regulated	N/A	N/A

Material Safety Data Sheet

DATE: 5/15/2013

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA) 12(b) Component(s).
None.

OSHA Hazard Communication Standard (29 CFR 1910.1 200) Hazard Class(es)
Irritant.

Country	Regulatory List	Notification
USA	TSCA 8b	All components listed or exempted.
EU	EINECS	All components listed or exempted.
Canada	DSL	All components listed or exempted.
Australia	AICS	All components listed or exempted.
Japan	ENCS	All components listed or exempted.
South Korea	KECI	All components listed or exempted.

HCS Classification Irritating material

EPA SARA Title III Section 312 (40 CFR 370) Hazard Classification
Immediate health hazard

EPA SARA Title III Section 313 (40 CFR 372) Component(s) above 'de minimus' level
None.

EPA SARA Title III Section 302 Extremely Hazardous Substances
None.

State regulations Massachusetts RTK Substances - None required.
New Jersey RTK Substances - None required.
Pennsylvania RTK Substances - None required.

California Proposition 65 - None of the chemicals known to be present or in reportable amounts are known to the state of California to cause cancer or birth defects or other reproductive hazards as per OSHA's approval of the California Hazard Communication Standard, Federal Register, page 31159 ff, 6 June 1997.

WHMIS Hazard
Classification (Canada) Class D-2B: Material causing other toxic effects (Toxic).

Canadian lists Canadian NPRI: None required.

16. OTHER INFORMATION

HMIS[®]

Health	1
Flammability	1
Physical hazard	0
Chronic	

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 MSDS'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.



Material Safety Data Sheet

DATE: 5/15/2013

Prepared by	Denso EH & S Department
Telephone	1-281-821-3355 Corporate 1-801-629-0667 Emergency (24 hour)
Date of Issue	15-May-13
Date of Printing	15-May-13
Version	1

Notice to reader

The information provided herein was believed by Denso North America ("Denso") to be accurate at the time of preparation of 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 MERCHANTABILITY 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.