

According to 29 CFR 1910.1200(g)

PROTAL 7200 PART A (RESIN)

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

1.1. Product identifier

Product name Protal 7200 Part A (Resin)

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

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

Not intended for use by general public. Restricted Use

1.3. Details of the supplier of the safety data sheet

Denso North America Company Address 9747 Whithorn Drive Houston, TX 77095

Web www.densona.com Telephone 1 (281) 821-3355 1 (281) 821-0304 Fax **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 Eye corrosion - Category 2B

Skin corrosion - Category 3

Skin sensitizer

2.1.2. Environmental Hazardous to aquatic environment

> Acute aquatic toxicity - Category 2 Chronic aquatic toxicity – Category 2

2.1.3. Physical None

2.2. Label elements

Hazard pictograms





Signal Word Warning

Hazard statement H302 - Harmful if swallowed.

H305 - Causes skin irritation

H317 – May cause an allergic skin reaction.

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H319 – Causes serious eye irritation

H335 – May cause respiratory irritation.

H402 - Harmful to aquatic life.

Precautionary Statement:

Prevention

P102 – Keep out of reach of children.

P202 – Do not handle until all safety precautions have been read and understood

P233 – Keep container tightly closed. P234 – Keep only in original container.

P235 – Store in a well ventilated place. Keep cool.

P261 – Avoid breathing dust/fume/gas/mist/vapors/spray.

P262 – Do not get in eyes, on skin, or on clothing.

P264 – Wash thoroughly after handling.

P270 – Do not eat, drink, or smoke when using this product.

P271 – Use only outdoors or in a well-ventilated area.

P272 – Contaminated work clothing should not be allowed out of the workplace.

P273 – Avoid release to the environment.

P280 – Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statement:

Response

P301 - IF SWALLOWED:

P302+P352 – IF ON SKIN: Wash with plenty of soap and 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.

P314 – Get medical advice / attention if you feel unwell.

P333+P313 – If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 – If eye irritation persists: Get medical advice/attention.

P363 – Wash contaminated clothing before reuse.

P391 – Collect spillage.

Precautionary Statement:

Disposal

P501 – Dispose of contents/container in accordance with local/ national regulations.

SECTION 3: Composition/information on ingredients

3.1. Substances			
CAS No.	Concentration (%w/w)	Classification	
25068-38-6	10-30%	Xi; R36/38, 43	
		N; R51/53	
28064-14-4	10-30%		
30499-70-8	5-20%	Skin Corr – Cat 2	
		Eye Corr – Cat 2	
		Skin Sens – Cat 1	
14808-60-7	10-30%	(1) (2)	
14807-96-6	10-30%	(1) (2)	
	25068-38-6 28064-14-4 30499-70-8 14808-60-7	25068-38-6 10-30% 28064-14-4 10-30% 30499-70-8 5-20% 14808-60-7 10-30%	25068-38-6 10-30% Xi; R36/38, 43 N; R51/53 28064-14-4 10-30% Skin Corr – Cat 2 Eye Corr – Cat 2 Skin Sens – Cat 1 14808-60-7 10-30% (1) (2)

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NOTES:

- (1) Substance classified with a health or environmental hazard.
- (2) Substance with a workplace exposure limit.

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

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.

4.4. 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 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 Irritating to eyes.

Skin contact Irritating to skin. May cause sensitization by skin contact.

Ingestion May cause nausea and vomiting

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Inhalation

May cause irritation to respiratory system.

SECTION 5: Firefighting measures

5.1. Suitable	extingu	ishing
media		

Alcohol-resistant foam, Carbon dioxide (CO2), 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

Avoid contact with 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.

5.4. Further information

Do not allow run-off from fire-fighting to enter drains or water courses.

SECTION 6: Accidental release measures

61	Personal	precautions
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No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled materials. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (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

Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Use absorbent with inert material. Vacuum or sweep up material and place in a designated, labeled water container. Dispose of via a licensed, waste-disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

6.4. Additional advice

Stop leak if without risk.

SECTION 7: Handling and storage

7.1. 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 breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

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7.2. 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.

7.3. Technical precautions

Do not store in reactive metal containers.

SECTION 8: Exposure controls/personal protection

8.1.	Control	parameters

8.1.1. Exposure Limit Values	CAS No.	ACGIH TLV
	25068-38-6	None established
	28064-14-4	None established
	30499-70-8	None established
	14808-60-7	0.025 mg/m³ (as respirable dust)
	14807-96-6	2 mg/m³ (as respirable dust)

8.2. Control measures / Personal Protection

8.2.1. Re	ecommend	led
monitor	ing proced	lures

To meet the exposure limits for the materials listed above, 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.

8.2.2. 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.

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. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing or discard as necessary. Ensure that eyewash stations/bottles with pure water and safety showers are close to the workstation location.

8.2.4. Respiratory protection

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates 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.

8.2.5. 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.

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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, 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.

8.2.7. 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.

SECTION 9: Physical and chemical properties

•	• •		
Form	Viscous Liquid	Vapor Pressure	ND
Color	White	Relative vapor density	>1
Odor	Mildly irritating	Relative density	1.62
Odor threshold	ND	Water solubility	Slight
рН	about 7	Partition coefficient (n-octanol/water)	ND
Freezing point	ND	Auto-ignition temperature	ND
Boiling point	ND	Decomposition temperature	ND
Flash Point	>200°F (93°C)	Viscosity	255,000 cP @ 73°F (22°C)
Evaporation rate	N/A	Oxidizing	N/A
Flammable Limits	ND	Explosion Limits	ND

SECTION 10: Stability and reactivity

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	Temperatures greater than 300°F (149°C)	
10.3. Materials to avoid	Reactive or incompatible with the following materials: Oxidizing materials, Strong acids, Strong alkalis (such as amines)	
10.4. Other hazards	Reacts with considerable heat release with some curing agents, such as amines.	
10.5. Hazardous decomposition products	Decomposition 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

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Components:

25068-38-6

Acute oral toxicity: LD50 (rat): 30,000 mg/kg Acute dermal toxicity: LD50 (rat): >1,200 mg/kg

28064-14-4

Acute oral toxicity: LD50 (rat): >2,000 mg/kg Acute dermal toxicity: LD50 (rabbit): >2,000 mg/kg

30499-70-8

Acute oral toxicity: LD50 (rat): >2,000 mg/kg Acute dermal toxicity: LD50 (rabbit): >2,000 mg/kg

14808-60-7

Acute oral toxicity: ND Acute dermal toxicity: ND Acute inhalation toxicity: ND

14807-96-6

ND Acute oral toxicity: Acute dermal toxicity: ND Acute inhalation toxicity: ND

11.2. Skin corrosion or

irritation

Product:

Remarks: May cause skin irritation in susceptible persons.

Components:

25068-38-6

Species: adult rabbit

Result: slight to moderate irritation to skin

Classification: irritating to skin

28064-14-4

Species: adult rabbit

Result: slight to moderate irritation to skin

Classification: irritating to skin

30499-70-8

Species: adult rabbit

Result: slight to moderate irritation to skin

Classification: irritating to skin

11.3. Serious eye damage or

irritation

Product:

Remarks: Irritating to the eye.

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Components:

25068-38-6

Species: adult rabbit
Result: slightly irritating

Classification: irritating to eyes

28064-14-4

Species: adult rabbit Result: slightly irritating Classification: irritating to eyes

30499-70-8

Species: adult rabbit

Result: serious eye irritation

Classification: serious irritation to eyes

14808-60-7 Species: ND

Result: mechanical irritation only Classification: Not irritating to eyes.

14807-96-6 Species: ND

Result: mechanical irritation only Classification: Not irritating to eyes.

11.4. Respiratory or skin sensitization

Product:

Remarks: May cause skin sensitization in susceptible persons.

Components:

25068-38-6

Species: adult guinea pig

Result: Causes skin sensitization.

Classification: Causes skin sensitization.

28064-14-4

Species: adult guinea pig

Result: Causes skin sensitization.

Classification: Causes skin sensitization.

30499-70-8

Species: adult guinea pig

Result: Causes skin sensitization.

Classification: Causes skin sensitization.

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11.5. Germ cell mutagenicity

Product:

Remarks: Not likely to be mutagenic based on components.

Components:

Remarks: None of the components is known to have significant mutagenic effects.

11.6. Carcinogenicity

Product:

Remarks: Not likely to be classifiable as a human carcinogen based on components.

Components:

14808-60-7

Remarks: Known carcinogen via inhalation (IARC)

14807-98-6

Remarks: Talc may contain crystalline silica. IARC has concluded that there is limited evidence of carcinogenicity of crystalline silica in humans and sufficient evidence of carcinogenicity of crystalline silica in experimental animals (IARC Class 2A). The NTP has concluded that crystalline silica (respirable) may reasonably be expected to be a

carcinogen.

11.7. Reproductive toxicity

Product:

Remarks: Not known to have adverse effects on sexual function, fertility, and/or on

development.

Components:

None of the components is classified as a reproductive toxin.

11.8. STOT – single exposure

Product:

Remarks: No data available, but irritation to skin and eyes and sensitization are possible. Once sensitized, a severe allergic reaction may occur when subsequently

exposed to very low levels.

Components:

14808-60-7

Remarks: If particulates are inhaled, irritation to the respiratory system may occur.

11.9. STOT – repeated exposure

Product:

Remarks: No data available, but irritation and/or sensitization to the skin and eyes is possible. Once sensitized, a severe allergic reaction may occur when subsequently

exposed to very low levels.

Components:

14808-60-7

Remarks: If particulates are inhaled, damage to the kidneys, lungs, and autoimmune system may occur.

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11.10. Repeated dose toxicity

Product:

Remarks: Causes skin irritation and may cause sensitization. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Components:

25068-38-6

Remarks: Skin and eye irritation, sensitization.

28064-14-4

Remarks: Skin and eye irritation, sensitization.

30499-70-8

Remarks: Skin and eye irritation, sensitization.

14808-60-7

Remarks: Silicosis, Cancer, Pulmonary Tuberculosis, Kidney disease, autoimmune diseases, non-malignant respiratory diseases

14807-96-6

Remarks: Talc may contain crystalline silica. Repeated inhalation to crystalline silica may result in silicosis, cancer, pulmonary tuberculosis, kidney disease, autoimmune diseases, and non-malignant respiratory diseases.

11.11. Aspiration toxicity

Product:

Remarks: None known

Components:

Remarks: None known

11.12. Further information

Likely routes of exposure – inhalation; skin and eye contact.

SECTION 12: Ecological information

12.1. Ecotoxicity

Product:

Remarks: Toxic to aquatic life based on components present.

Components:

25068-38-6

Toxicity to fish – 96 h LC50: 3.1 mg/L Test type: Fathead minnow

Toxicity to daphnia and other aquatic invertebrates – 48 h

LC50: 1.3 mg/L Test type: Similar material

28064-14-4

Toxicity to fish – 96 h LC50: >1-10 mg/L Test Type: Similar material

Toxicity to daphnia and other aquatic invertebrates – 48 h

EC50: >1-10 mg/L Test Type: Similar material

Toxicity to algae EC50: ND

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30499-70-8

Toxicity to fish – 96 h LC50: 10-100 mg/L Test Type: Similar material

Toxicity to daphnia and other aquatic invertebrates – 48 h

EC50: 10-100 mg/L Test Type: Similar material

Toxicity to algae – 3 h EC50: >100 mg/L Test Type: Similar material Toxicity to bacteria – 24 h IC50 (Bacteria): ND Test Type: Static test

romotely to bucteria

14808-60-7

Remarks: Not toxic to aquatic life

14807-96-6

Remarks: Not toxic to aquatic life

12.2. Persistence and degradability

Product:

Remarks: No data available

Components:

25068-38-6

Biodegradability after 28 days – 12%

28064-14-4

Remarks: Not readily biodegradable

14808-60-7

Remarks: Persistent/Not biodegradable

14807-98-6

Remarks: Persistent/Not biodegradable

12.3. Bioaccumulative

potential

Product:

Remarks: No data available

Components:

Remarks: No data available

12.4. Mobility in soil

Product:

Remarks: No data available

Components:

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, Harmful, possibly toxic to aquatic life.

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Components:

Remarks: No data available

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 UN3082

14.2. UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN)

14.3. Transport hazard class International Carriage of Dangerous Good by

Road/Rail ADR/RID: 9

International Maritime

Dangerous Goods IMDG: 9

International Air Transport

Association IATA: 9

US Code of Federal

Regulations CFR Not Regulated

Canadian Transportation of

Dangerous Goods TDG: Not Regulated

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US Department of

Transportation DOT: Not Regulated

14.4. Packing group

III

14.5. Environmental hazards

Environmental hazards: Yes Marine pollutant: Yes

ADR/RID

Hazard ID: 90 Tunnel Category: (E)

IMDG

EmS Code: F-A S-F

IATA

Packing Instruction (Cargo): 964 Maximum quantity: 450 L Packing instruction (Passenger): 964 Maximum quantity: 450 L

SECTION 15: Regulatory information

15.1. OSHA Hazards Irritant, Sensitizer

15.2. CERCLA Reportable

Quantity

Components CA

CAS No.

Component RQ Product RQ

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

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 SOCMI

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

14808-60-7 Crystalline silica (Quartz) is a hazardous substance.

Pennsylvania Right-To-Know

14808-60-7 Crystalline silica (Quartz) is a hazardous substance.

New Jersey Right-To-Know

14808-60-7 Crystalline silica (Quartz) is a hazardous substance.

California Prop 65

WARNING! This product contains a chemical known to the State of California to cause

cancer.

14808-60-7 Crystalline silica (Quartz – airborne particles of respirable size)

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) Yes (On Japanese inventory or in compliance with inventory) ENCS (Japan) 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)

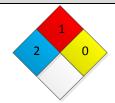
15.11. WHMIS Hazard Classification (Canada)

Class D-2B: Material causing other toxic effects (Toxic).

Canadian NPRI: None required.

SECTION 16: Other information

16.1. NFPA



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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

R36/38 – Irritating to eyes and skin.

R43 – May cause sensitization by skin contact.

R51/53 – Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

16.4. Text of Hazard statements in Section 3

Skin Irr. 2: H315 - Causes skin irritation.

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 MECHANTABILITY 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 abbrevations 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

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ENCS Japan, Inventory Existing and New Chemical Substances

GHS Global Harmonization System

IARC International Agency for Research on Cancer

IC50 Ihibition 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 Permissable 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 1-281-821-3355 Corporate

1-801-629-0667 Emergency (24 hour)

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