

**Material Safety Data Sheet: DURAHOLD AEROSOL, US MM**

Supersedes Date 01/28/2004

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**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product Name** DURAHOLD AEROSOL, US MM  
**Recommended Use** bonding agent  
**Information on Manufacturer**  
 CHEMSEARCH DIV. OF NCH CORP.  
 BOX 152170  
 IRVING, TX 75015

**Product Code** 5587  
**Chemical Nature** Mixed resins in hydrocarbon solvents  
**Emergency Telephone Number**  
 CHEMTREC® 800-424-9300

**2. HAZARDS IDENTIFICATION**

**Emergency Overview**

Danger  
 Extremely flammable  
 May be harmful if inhaled  
 Causes skin irritation  
 Causes eye irritation  
 Harmful or fatal if swallowed  
 Contents under pressure

**Color** Slightly Yellow

**Physical State** Liquid

**Odor** Petroleum distillates

**Potential Health Effects**

**Principle Route of Exposure**

Eye contact, Skin contact, Inhalation.

**Primary Routes of Entry**

Inhalation, Skin Absorption.

**Acute Effects**

**Eyes**

Causes eye irritation.

**Skin**

Causes skin irritation.

**Inhalation**

Causes respiratory tract irritation. Causes headache, drowsiness or other effects to the central nervous system.

**Ingestion**

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea . Aspiration hazard if swallowed - can enter lungs and cause damage.

**Chronic Effects**

Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood. Prolonged or repeated exposure increases the risk. Possible risk of harm to the unborn child. Possible risk of impaired fertility.

**Target Organ Effects**

Eyes, Skin, Respiratory system, Central nervous system, Ears, Liver, Kidney, Heart, Peripheral Nervous System (PNS).

**Aggravated Medical Conditions**

Skin disorders. Neurological disorders. Respiratory disorders. Kidney disorders. Cardiovascular. Liver disorders.

**Potential Environmental Effects**

See Section 12 for additional Ecological information.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Component	CAS-No
Hexane	110-54-3
Petroleum hydrocarbon resin	68527-25-3
Styrene-isoprene block copolymer	25038-32-8
Toluene	108-88-3
Zinc	7440-66-6
Propane	74-98-6
Butane	106-97-8
Hydrocarbon resin	68003-51-0

**4. FIRST AID MEASURES**

**Eye Contact**

Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if irritation develops and persists.

**Skin Contact**

Wash off immediately with soap and plenty of water. Wash contaminated clothing before re-use. Get medical attention if irritation develops and persists.

**Inhalation**

If inhaled, remove to fresh air. Get medical attention if symptoms occur.

**Ingestion**

Drink 1 or 2 glasses of water. Do not induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.

**Notes to Physician**

Aspiration hazard if swallowed - can enter lungs and cause damage.

**5. FIRE-FIGHTING MEASURES**

**Flash Point** <20°F / -6.7°C

**Method**

Seta closed cup

**Autoignition Temperature** No information available

**Flammability Limits in Air**

**Upper** 7.5

**Lower** 1.0

**Suitable Extinguishing Media**

Foam. Alcohol-resistant foam . Dry chemical. Water spray.

**Unsuitable Extinguishing Media**

None known.

**Specific Hazards Arising from the Chemical**

Solvent vapors are heavier than air and may spread along floors . Vapors may ignite and explode. The product is insoluble and floats on water. Flame extension: 30 inches / 75 cm and Bumback: 0 inches / 0 cm

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

<b>NFPA</b>	<b>Health</b>	2	<b>Flammability</b>	4	<b>Instability</b>	0
<b>HMIS</b>	<b>Health</b>	2	<b>Flammability</b>	4	<b>Instability</b>	0

**6. ACCIDENTAL RELEASE MEASURES**

<b>Personal Precautions</b>	Use personal protective equipment. Remove all sources of ignition. Ensure adequate ventilation. Prevent further leakage or spillage if safe to do so.
<b>Environmental Precautions</b>	Do not flush into surface water or sanitary sewer system.
<b>Methods for Containment</b>	No information available
<b>Methods for Cleaning Up</b>	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labelled containers.

**7. HANDLING AND STORAGE**

<b>Handling</b>	Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded.			
<b>Storage</b>	Keep tightly closed in a dry and cool place. Keep away from heat and sources of ignition.			
<b>Storage Temperature</b>	<b>Minimum</b>	35°F / 2°C	<b>Maximum</b>	120°F / 49°C
<b>Storage Conditions</b>	<b>Indoor</b>	X	<b>Outdoor</b>	
			<b>Heated</b>	<b>Refrigerated</b>

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Exposure Guidelines**

Component	ACGIH TLV	OSHA PEL	NIOSH
Hexane	TWA: 50 ppm Skin	TWA: 1800 mg/m <sup>3</sup> TWA: 500 ppm	IDLH: 1100 ppm TWA: 50 ppm TWA: 180 mg/m <sup>3</sup>
Petroleum hydrocarbon resin	No data available	no data available	no data available
Styrene-isoprene block copolymer	No data available	no data available	no data available
Toluene	TWA: 20 ppm	TWA: 200 ppm Ceiling: 300 ppm	IDLH: 500 ppm STEL 560 mg/m <sup>3</sup> STEL 150 ppm TWA: 100 ppm TWA: 375 mg/m <sup>3</sup>
Zinc	No data available	no data available	no data available
Propane	TWA: 1000 ppm	TWA: 1000 ppm TWA: 1800 mg/m <sup>3</sup>	IDLH: 2100 ppm TWA: 1800 mg/m <sup>3</sup> TWA: 1000 ppm
Butane	TWA: 1000 ppm	no data available	TWA: 1900 mg/m <sup>3</sup> TWA: 800 ppm
Hydrocarbon resin	No data available	no data available	no data available

<b>Engineering Measures</b>	Use with local exhaust ventilation. Ensure adequate ventilation, especially in confined areas.
<b>Personal Protective Equipment</b>	
<b>Eye/Face Protection</b>	Safety glasses with side-shields.
<b>Skin Protection</b>	Impervious gloves. Long sleeved clothing.
<b>Respiratory Protection</b>	Use NIOSH approved respiratory protection.
<b>General Hygiene Considerations</b>	Do not get in eyes, on skin, or on clothing.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical State</b>	Liquid	<b>Viscosity</b>	Slight Viscous
<b>Color</b>	Slightly Yellow	<b>Odor</b>	Petroleum distillates
<b>Appearance</b>	Opaque	<b>pH</b>	Not applicable
<b>Specific Gravity</b>	0.82	<b>Bulk Density</b>	No data available
<b>Evaporation Rate</b>	>1 (Butyl acetate=1)	<b>Percent Volatile (Volume)</b>	55
<b>VOC Content (%)</b>	55	<b>Vapor Pressure</b>	2586 mmHg @ 70 °F
<b>Vapor Density</b>	1.9	<b>Solubility</b>	Negligible
<b>Boiling Point/Range</b>	No information available		

**10. STABILITY AND REACTIVITY**

<b>Chemical Stability</b>	Stable under normal conditions
<b>Conditions to Avoid</b>	Keep away from open flames, hot surfaces, and sources of ignition.
<b>Incompatible Products</b>	Strong oxidizing agents.
<b>Hazardous Decomposition Products</b>	Carbon oxides.
<b>Possibility of Hazardous Reactions</b>	None under normal processing

**11. TOXICOLOGICAL INFORMATION**

<b>Product Information</b>	The product itself has not been tested
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Component Information

**Acute toxicity**

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Hexane	28710 mg/kg ( Rat )	3000 mg/kg ( Rabbit )	48000 ppm ( Rat ) 4 h	no data available	no data available
Petroleum hydrocarbon resin	no data available	no data available	no data available	no data available	no data available
Styrene-isoprene block copolymer	no data available	no data available	no data available	no data available	no data available
Toluene	636 mg/kg ( Rat )	8390 mg/kg ( Rabbit )	12.5 mg/L ( Rat ) 4 h 26700 ppm ( Rat ) 1 h	no data available	no data available
Zinc	no data available	no data available	no data available	no data available	no data available
Propane	no data available	658 mg/kg ( Rat )	no data available	no data available	no data available
Butane	no data available	no data available	658 g/m <sup>3</sup> ( Rat ) 4 h	no data available	no data available
Hydrocarbon resin	no data available	no data available	no data available	no data available	no data available

**Chronic Toxicity**

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Hexane	no data available	no data available	no data available	X.	skin, eyes, respiratory system, CNS, PNS
Petroleum hydrocarbon resin	no data available	no data available	no data available	no data available	no data available
Styrene-isoprene block copolymer	no data available	no data available	no data available	no data available	no data available
Toluene	no data available	no data available	X	no data available	CNS, liver, kidneys, skin, eyes, heart, respiratory system, and reproductive system
Zinc	no data available	no data available	no data available	no data available	no data available
Propane	no data available	no data available	no data available	no data available	CNS, liver, heart
Butane	no data available	no data available	no data available	no data available	CNS, liver, heart
Hydrocarbon resin	no data available	no data available	no data available	no data available	no data available

**Carcinogenicity**

There are no known carcinogenic chemicals in this product

Component	ACGIH	IARC	NTP	OSHA	Other
Hexane	not applicable				
Petroleum hydrocarbon resin	not applicable				
Styrene-isoprene block copolymer	not applicable				
Toluene	not applicable				
Zinc	not applicable				
Propane	not applicable				
Butane	not applicable				
Hydrocarbon resin	not applicable				

**12. ECOLOGICAL INFORMATION****Product Information**

The product itself has not been tested

**Component Information**

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
Hexane	no data available	LC50= 2.5 mg/L Pimephales promelas 96 h LC50= 4.12 mg/L Lepomis macrochirus 96 h LC50= 4.14 mg/L Oncorhynchus mykiss 96 h	no data available	EC50 = 3.87 mg/L 48 h	N/A
Petroleum hydrocarbon resin	no data available	no data available	no data available	no data available	N/A
Styrene-isoprene block copolymer	no data available	no data available	no data available	no data available	N/A
Toluene	EC50= 433 mg/L Selenastrum capricornutum 96 h	LC50= 13 mg/L Lepomis macrochirus 96 h LC50= 24.0 mg/L Lepomis macrochirus 96 h LC50= 24.0 mg/L Oncorhynchus mykiss 96 h LC50= 25 mg/L Pimephales promelas 96 h	EC50 = 19.7 mg/L 30 min	EC50 = 11.3 mg/L 48 h EC50 = 310 mg/L 48 h	2.65
Zinc	EC50= 30 µg/L Selenastrum capricornutum 96 h	LC50= 6.4 mg/L Pimephales promelas 96 h	no data available	EC50 = 5 µg/L 72 h	N/A
Propane	no data available	no data available	no data available	no data available	2.3
Butane	no data available	no data available	no data available	no data available	2.89
Hydrocarbon resin	no data available	no data available	no data available	no data available	N/A

**Persistence and Degradability**

No information available

**Bioaccumulation**

No information available

**Mobility**

No information available

**13. DISPOSAL CONSIDERATIONS****Product Disposal**

Dispose of as hazardous waste in compliance with local and national regulations

**Container Disposal**

Contents under pressure Do not puncture.

**14. TRANSPORT INFORMATION****DOT**

**Proper Shipping Name**  
**Hazard Class**  
**Description**

Consumer commodity  
ORM-D  
Consumer commodity ,ORM-D,

**TDG**

Proper shipping name Aerosols  
 Hazard Class 2.1  
 UN-No UN1950  
 Description AEROSOLS,2.1,UN1950 LTD. QTY.

ICAO  
 Proper Shipping Name Do not ship air

IATA  
 Proper Shipping Name Do not ship air

IMDG/IMO  
 Proper Shipping Name Aerosols  
 Hazard Class 2  
 UN-No UN1950  
 EmS No. F-D, S-U  
 Shipping Description UN1950, Aerosols,2.1 LTD. QTY.

## 15. REGULATORY INFORMATION

## Inventories

TSCA Complies  
 DSL Complies

U.S. Federal Regulations  
 SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40n of the Code of Federal Regulations, Part 372:

Component	CAS-No	Weight %	SARA 313 - Threshold Values
Hexane	110-54-3	20-25	1.0
Toluene	108-88-3	5-10	1.0
Zinc	7440-66-6	5-10	1.0

## SARA 311/312 Hazardous Categorization

Acute Health Hazard	Chronic Health Hazard	Fire Hazard	Sudden Release of Pressure Hazard	Reactive Hazard
Yes	Yes	Yes	Yes	No

## CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
Hexane	5000 lb	Not applicable
Petroleum hydrocarbon resin	Not applicable	Not applicable
Styrene-isoprene block copolymer	Not applicable	Not applicable
Toluene	1000 lb	Not applicable
Zinc	1000 lb	Not applicable
Propane	Not applicable	Not applicable
Butane	Not applicable	Not applicable
Hydrocarbon resin	Not applicable	Not applicable

## Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

## WHMIS Hazard Class

A Compressed gases, B5 Flammable aerosol, D2A Very toxic materials , D2B Toxic materials .



## 16. OTHER INFORMATION

Prepared By Kamal Singh  
 Supersedes Date 01/28/2004  
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 Reason for Revision No information available  
 Glossary No information available  
 List of References TBD

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