

MATERIAL SAFETY DATA SHEET: DYNA-BRAKE

DATE OF ISSUE: 09/10/2003

SUPERCEDES: 08/19/2003

SECTION I - GENERAL INFORMATION**Chemical Name & Synonyms:**

N/A

Trade Name & Synonyms:

DYNA-BRAKE

Chemical Family:

CHLORINATED HYDROCARBON BLEND

Formula Mixture: X**Manufacturer's Name:**

Partsmaster, Div of NCH Corp.

Address:

P.O. Box 655326

Dallas, TX 75265-5326

Prepared By:

L Boynton/Chemist

Product Code Number

5606

Emergency Phone Number

800-424-9300

SECTION II - HAZARDOUS INGREDIENTS

THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS

Chemical Name (Ingredients)	Hazard	TLV	PEL	STEL	CAS #
METHYLENE CHLORIDE	IRR/CARC	50 PPM 1.	25 PPM 2.	125 PPM 2.	75-09-2
PERCHLOROETHYLENE	IRR/CARC	25 PPM 1.	100 PPM 2.	100 PPM 1.	127-18-4
CARBON DIOXIDE	ASPHYXIANT	5000 PPM 1	5000 PPM 2	30000PPM 1	124-38-9

SECTION III - PHYSICAL DATA

Boiling Point (f):	154°	Specific Gravity (H20=1):	1.45-1.55
Vapor Pressure (MM HG):	2887.73	Color:	COLORLESS
Vapor Density (Air=1):	1.6	Odor:	ETHER-LIKE
PH @ 100% :	N/A	Clarity	TRANSPARENT
% Volatile by Volume:	100	Evaporation Rate (BU A/C=1):	95.9
H20 Solubility:	NEGLIGIBLE	Viscosity:	NON-VISCOUS

SECTION IV - FIRE AND EXPLOSION HAZARD

Flash Point:	Flammable Limits:	LEL:	UEL:
>200°F / SETAFLASH	METHYLENE CHLORIDE	12%	19%
Extinguishing Media:			
Foam:X Alcohol Foam:X CO2:X Dry Chemical:X Water Spray:X Other:			

Special Fire Fighting Procedures:

FIREFIGHTERS SHOULD WEAR A SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR. EXTINGUISHING MEDIA SHOULD BE CHOSEN BASED ON THE NATURE OF THE SURROUNDING FIRE. COOL FIRE-EXPOSED CONTAINERS WITH WATER SPRAY TO PREVENT BURSTING.

Unusual Fire and Explosion Hazards:

VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL TO DISTANT LOW LYING AREAS AND SOURCES OF IGNITION AND FLASHBACK WHEN IN THE FLAMMABLE LIMITS. VIOLENT STEAM GENERATION OR ERUPTION MAY OCCUR UPON APPLICATION OF DIRECT WATER STREAM. CONTAIN FIRE RUN-OFF IF POSSIBLE. USE CARE AS SPILLS MAY BE SLIPPERY. FLAME EXTENSION IS 0 INCHES, BURNBACK IS 0 INCHES.

Aerosol Level (NFPA 30B):

1

NFPA Hazard Rating: (0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme)

Health:2

Flammability:1

Instability:0

Special:

SECTION V - HEALTH HAZARD DATA**Threshold Limit Value:**

NOT ESTABLISHED FOR MIXTURE. SEE SECTION II.

Effects of Overexposure:

-Acute(Short Term Exposure)

EYE CONTACT: CAUSES SEVERE IRRITATION SEEN AS TEARING, STINGING, REDNESS, AND BLURRED VISION. PROLONGED CONTACT MAY CAUSE CORNEAL DAMAGE. SKIN CONTACT: CAUSES IRRITATION SEEN AS ITCHING AND REDNESS. PROLONGED CONTACT MAY CAUSE A BURNING SENSATION, FLAKING, DRYNESS, AND DEFATTING OF THE SKIN. PRODUCT MAY BE ABSORBED THROUGH THE SKIN IN HARMFUL AMOUNTS. INHALATION: CAUSES RESPIRATORY IRRITATION SEEN AS COUGHING AND SNEEZING. AT HIGH VAPOR CONCENTRATIONS, INHALATION MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS SUCH AS HEADACHE, DIZZINESS, DROWSINESS, WEAKNESS, UNCONCIOUSNESS, DRUNKENNESS, LOSS OF COORDINATION AND CONCENTRATION, METALLIC TASTE, SALIVATION, CARDIAC ARRHYTHMIAS (IRREGULAR HEARTBEAT), POSSIBLE ANESTHETIC EFFECTS FROM CENTRAL NERVOUS SYSTEM DEPRESSION AND MAY BE FATAL. EXCESSIVE EXPOSURE MAY POTENTIALLY INCREASE SENSITIVITY TO EPINEPHRINE AND INCREASE MYOCARDIAL IRRITABILITY. ALCOHOL CONSUMED BEFORE OR AFTER EXPOSURE MAY INCREASE ADVERSE EFFECTS. INGESTION: MAY CAUSE IRRITATION WITH POSSIBLE NAUSEA, VOMITING, AND DIARRHEA. MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS SIMILAR TO INHALATION. INGESTION AND SUBSEQUENT VOMITING OF THIS PRODUCT CAN LEAD TO ASPIRATION OF THE PRODUCT INTO THE LUNGS WHICH CAN CAUSE DAMAGE AND MAY BE FATAL. ALCOHOL MAY EXACERBATE THE EFFECTS OF OVEREXPOSURE. AVOID ALCOHOL CONSUMPTION.

-Chronic (Long Term Exposure)

EXCESSIVE EXPOSURE MAY CAUSE CARBOXYHEMOGLOBINEMIA, THEREBY IMPAIRING THE BLOOD'S ABILITY TO TRANSPORT SUFFICIENT OXYGEN. CARDIAC SENSITIZATION TO CIRCULATING EPINEPHRINE -LIKE COMPOUNDS CAN RESULT IN SUDDEN, FATAL CARDIAC ARRHYTHMIAS. HIGH CONCENTRATIONS CAN INDUCE LIVER INJURY. MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE ARE PRE-EXISTING RESPIRATORY AND SKIN CONDITIONS SUCH AS ASTHMA, EMPHYSEMA, AND DERMATITIS; PRE-EXISTING KIDNEY, LUNG, LIVER, CORONARY, AND BLOOD DISEASES AND RHYTHM DISORDERS OF THE HEART. TARGET ORGANS: BLOOD, CENTRAL NERVOUS SYSTEM, HEART, LIVER, LUNGS, AND KIDNEYS.

Primary Routes of Entry: Inhalation:X Ingestion: Absorption:X

Emergency and First Aid Procedures:

-Inhalation:

REMOVE FROM THE AREA TO FRESH AIR. IF NOT BREATHING, CLEAR THE AIRWAY AND START MOUTH TO MOUTH ARTIFICIAL RESPIRATION. GET IMMEDIATE MEDICAL ATTENTION.

-Eye Contact:

IMMEDIATELY RINSE THE EYES WITH WATER. REMOVE ANY CONTACT LENSES AND CONTINUE FLUSHING FOR AT LEAST 15 MINUTES. HOLD THE EYELIDS APART TO ENSURE RINSING OF THE ENTIRE SURFACE OF THE EYES AND LIDS WITH WATER. GET IMMEDIATE MEDICAL ATTENTION.

-Skin Contact:

WASH AFFECTED AREAS WITH LARGE AMOUNTS OF SOAP AND WATER FOR 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND SHOES. SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS. WASH CLOTHING AND CLEAN SHOES BEFORE REUSE.

-Ingestion:

GIVE 3 TO 4 GLASSES OF WATER, BUT DO NOT INDUCE VOMITING. IF VOMITING OCCURS, GIVE FLUIDS AGAIN. GET IMMEDIATE MEDICAL ATTENTION. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON.

-Notes to Physician:

INGESTION AND SUBSEQUENT VOMITING OF THIS PRODUCT CAN LEAD TO ASPIRATION OF THE PRODUCT INTO THE LUNGS WHICH CAN CAUSE DAMAGE AND MAY BE FATAL. DEPENDING ON THE AMOUNT INGESTED AND RETAINED AS WELL AS THE TOXICITY OF THE PRODUCT, GASTRIC LAVAGE SHOULD BE CONSIDERED. KEEP PATIENT'S HEAD BELOW HIPS TO PREVENT PULMONARY ASPIRATION. IF COMATOSE, A CUFFED ENDOTRACHEAL TUBE WILL PREVENT ASPIRATION.

SECTION VI - TOXICITY INFORMATION

Product Contains Chemicals Listed as Carcinogen or Potential Carcinogen By:

IARC: Yes **NTP:** Yes **OSHA:** Yes **ACGIH:** Yes **OTHER:** Yes

VOC CONTENT: 0% BY WEIGHT; 0% BY VOLUME; 0 G/L

METHYLENE CHLORIDE

ORL-HMN LDLO: 357 MG/KG 3.

ORL-RAT LD50: 1600 MG/KG 3.
 SKN-RBT SDT: 100 MG/24H MODERATE 3.
 EYE-RBT SDT: 162 MG MODERATE 3.
 IHL-RAT LC50: 52 G/M3 3.

TUMORIGENIC DATA

IHL-RAT TCLO: 3500 PPM/6H/2Y-I 3.

ACGIH GROUP A3

IARC GROUP 2B

METHYLENE CHLORIDE HAS BEEN EVALUATED FOR POSSIBLE CANCER CAUSING EFFECTS IN LABORATORY ANIMALS. EPIDEMIOLOGY STUDIES OF 751 HUMANS CHRONICALLY EXPOSED IN THE WORKPLACE OF WHICH 252 WERE EXPLORED FOR MUTAGENICITY - METHYLENE CHLORIDE HAS BEEN EVALUATED FOR ITS POTENTIAL TO INDUCE GENOTOXIC EFFECTS. REPRODUCTIVE TOXICITY - LABORATORY ANIMAL STUDIES ON MICE, RATS AND RABBITS HAVE BEEN CONDUCTED.

PERCHLOROETHYLENE

IHL-RAT LC50: 34,200 MG/M3/8H 3.
 ORL-RAT LD50: 2629 MG/KG 3.
 SKN-RBT LD50: >3228 MG/KG 3.
 SKN-RBT SDT: 500 MG/24H MILD 3.
 EYE-RBT SDT: 500 MG/24H MILD 3.
 EYE-RBT: SEVERE 4.

ACGIH GROUP A3

IARC GROUP 2A AND 2B

NTP: A LIFETIME RAT AND MOUSE EXPERIMENT SHOWED CLEAR EVIDENCE OF POTENTIAL FOR LIVER CANCER

CARBON DIOXIDE

IHL-RAT TCLO: 10000 PPM/24(S)-30 DAYS CONTINUOUS 4.
 IHL-HMN LCLo: 9 PPM/5M 4.

SECTION VII - REACTIVITY DATA

Stability: Stable: X Unstable:

Conditions to Avoid: NONE KNOWN.

Incompatibility (Materials to Avoid):

STRONG OXIDIZING AGENTS SUCH AS CHLORINE BLEACH AND CONCENTRATED HYDROGEN PEROXIDE; REDUCING AGENTS, AMINES, BASES, WATER, METAL CARBIDE, AND REACTIVE POWDERED METALS SUCH AS ZINC, SODIUM, POTASSIUM, MAGNESIUM, LITHIUM, BARIUM, AND ALUMINUM.

Hazardous Decomposition Products:

OXIDES OF CARBON; CHLORINE, HYDROGEN CHLORIDE, AND PHOSGENE.

Hazardous Polymerization: May Occur: Will Not Occur: X

Conditions to Avoid: N/A

SECTION VIII - SPILL OR LEAK PROCEDURES**Steps to be Taken if Material is Released or Spilled:**

DUE TO THE NATURE OF THE AEROSOL PACKAGING, A LARGE SPILL IS UNLIKELY. FOR A SMALL SPILL, VENTILATE THE AREA, WEAR APPROPRIATE PROTECTIVE CLOTHING, ABSORB WITH AN INERT MATERIAL, AND TRANSFER ALL MATERIAL INTO A PROPERLY LABELED CONTAINER FOR DISPOSAL. USE CARE AS SPILLS MAY BE SLIPPERY.

Waste Disposal Method(s):

DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS. TYPICAL DISPOSAL IS TO WRAP THE EMPTY AEROSOL CONTAINER IN SEVERAL LAYERS OF NEWSPAPER AND DISPOSE OF IN THE TRASH. AEROSOL RECYCLING PROGRAMS ARE AVAILABLE IN MANY AREAS. DO NOT PUNCTURE OR INCINERATE THIS CONTAINER.

Neutralizing Agent:

N/A

Partsmaster, Div of NCH Corp. assumes no responsibility for personal injury or property damage caused by the use, storage, c