

MATERIAL SAFETY DATA SHEET: BIG BLUE**Section I - General Information**

(000000-000000- - 0623)

Date of Issue:

8/30/2006 12:00:00 AM

Supersedes:

10/5/2005 12:00:00 AM

Chemical Name & Synonyms:

N/A

Trade Name & Synonyms:

BIG BLUE

Chemical Family:

AQUEOUS ALCOHOL SOLUTION

Formula is a mixture: [✓]

Manufacturer Name:

CHEMSEARCH DIV. OF NCH CORP.

Manufacturer Address:

BOX 152170

IRVING, TX 75015

Prepared By:

M McDowell/Chemist

Product Code Number:

0623

Emergency Phone Number:

800-424-9300

Section II - Hazardous Ingredients

THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS

Chemical Name (Ingredients)

METHANOL

Hazard

FLAM/TOX

TLV

200 PPM 1

PEL

200 PPM 2

STEL

250 PPM 1

C

6

Section III - Physical Data

Boiling Point (°F): 148°

Specific Gravity (H₂O=1): 0.87

Vapor Pressure (mm Hg): 116.3

Color: LIGHT BLUE

Vapor Density (Air=1): 1.1

Odor: MILD ALCOHOL

pH @ 100% : 9

Clarity: TRANSPARENT

% Volatile by Volume: 99

Evaporation Rate (BuAc=1): 2.92

H₂O Solubility: COMPLETE

Viscosity: NON-VISCOUS

Section IV - Fire and Explosion Hazard

Flash Point: 65°F

Method Used: SETA-FLASH

Flammable Limits: METHANOL

UEL: 36%

LEL: 6%

Aerosol Level (NFPA 30B): N/A

Extinguishing Media:

[] Foam

[✓] Alcohol Foam

[✓] CO₂

[✓] Dry Chemical

[✓] Water Spray

[] Other

NFPA 704 Hazard Rating:

4-Extreme

Health: 1

3-High

Flammability: 3

2-Moderate

Instability: 0

1-Slight

Special:

0-Insignificant

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-CONTAINERS WITH WATER SPRAY TO PREVENT BURSTING.

Unusual Fire and Explosion Hazards:

VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL TO DISTANT AND/OR LOW-LYING SOURCES OF IGNITION AND FLASHBACK. THE USE OF WATER SPRAY (FOG) WHILE EFFECTIVE, MAY CAUSE FROTHING AND FOAMING. NEVER WATER JET AS THIS WILL JUST SPREAD THE FIRE.

Section V - Health and Hazard Data

Threshold Limit Value:

200 PPM AS METHANOL 1.

Effects of Overexposure:**Acute: (Short Term Exposure)**

EYE CONTACT: CAUSES SEVERE IRRITATION SEEN AS STINGING, TEARING, REDNESS, AND A BURNING SENSATION. MAY CAUSE CONJUNCTIVITIS OR CORNEAL OPACITY. SKIN CONTACT: CAUSES IRRITATION SEEN AS ITCHING AND REDNESS. PROLONGED OR REPEATED CONTACT AS FROM CLOTHING WET WITH MATERIAL MAY CAUSE DRYING, DEFATTING, AND CRACKING OF THE SKIN. PRODUCT MAY BE ABSORBED THROUGH THE SKIN IN HARMFUL AMOUNTS. INHALATION: MAY CAUSE RESPIRATORY IRRITATION SEEN AS COUGHING AND SNEEZING. MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS SUCH AS HEADACHE, DIZZINESS, DROWSINESS, WEAKNESS, UNCONSCIOUSNESS, POSSIBLE ANESTHETIC EFFECTS FROM CENTRAL NERVOUS SYSTEM DEPRESSION, AND MAY BE FATAL. INGESTION MAY CAUSE IRRITATION WITH POSSIBLE NAUSEA, VOMITING, AND DIARRHEA. SWALLOWING AS LITTLE AS 1 TO 2 OUNCES CAN RESULT IN METABOLIC ACIDOSIS LEADING TO OPTIC NERVE DAMAGE RANGING FROM DIMINISHED VISUAL CAPACITY TO COMPLETE BLINDNESS AND DEATH. TRANSIENT VISUAL ABNORMALITIES THAT DEVELOP IN ACUTE INTOXICATION MAY INCLUDE BLURRED OR DOUBLE VISION, CHANGES IN COLOR PERCEPTION, CONSTRICTED VISUAL FIELDS, SPOTS BEFORE THE EYES, AND SHARPLY REDUCED VISUAL ACUITY.

Chronic: (Long Term Exposure)

METHANOL IS SLOWLY ELIMINATED FROM THE BODY, THEREFORE IT CAN HAVE CUMULATIVE TOXICITY EFFECTS WITH REPEATED EXPOSURES. EXPOSURE TO THIS MATERIAL MAY AGGRAVATE ANY PRE-EXISTING CONDITION SENSITIVE TO A DECREASE IN AVAILABLE OXYGEN, SUCH AS CHRONIC LUNG DISEASE, CORONARY ARTERY DISEASE, OR ANEMIA. MEDICAL CONDITIONS AGGRAVATED: PRE-EXISTING LIVER AND KIDNEY DISEASES; PRE-EXISTING RESPIRATORY AND SKIN CONDITIONS SUCH AS ASTHMA, EMPHYSEMA, AND DERMATITIS. TARGET ORGANS: HEART, LIVER, LUNGS, KIDNEYS, CENTRAL NERVOUS SYSTEM, AND OPTIC NERVES. THE PRIMARY ROUTES OF EXPOSURE ARE SKIN AND EYE CONTACT.

Primary Routes of Entry

☒ Inhalation ☒ Ingestion ☒ Absorption

Emergency First Aid Procedures:**Inhalation:**

REMOVE FROM THE AREA TO FRESH AIR. SEEK MEDICAL ATTENTION IF RESPIRATORY IRRITATION DEVELOPS OR IF BREATHING BECOMES DIFFICULT.

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. 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:

METHANOL IS METABOLIZED TO FORMALDEHYDE AND FORMIC ACID. THIS IN TURN, MAY CAUSE METABOLIC AC VISUAL DISTURBANCES, AND BLINDNESS. BECAUSE METABOLISM MUST OCCUR BEFORE THE TOXIC EFFECTS, SYMPTOMS MAY BE DELAYED FROM 6 TO 30 HOURS FOLLOWING INGESTION. ETHANOL COMPETES FOR THE SA METABOLIC PATHWAY AND HAS BEEN USED AS AN ANTIDOTE. METHANOL IS EFFECTIVELY REMOVED BY HEMODIALYSIS.

Section VI - Toxicity Information

Product Contains Chemicals Listed as Carcinogen or Potential Carcinogen By:

☐ IARC

☐ NTP

☐ OSHA

☐ ACGIH

☐ Other

VOC CONTENT: 61% BY WEIGHT; 528 G/L

METHANOL

ORL-RAT LD50: 5,600 MG/KG 4.

IHL-RAT LC50: 64,000 PPM/4H 4.

SKN-RBT LD50: 15,800 MG/KG 4.

SKN-RBT SDT: 20 MG/24H MODERATE 4.

EYE-RBT SDT: 100 MG/24H MODERATE 4.

EYE-RBT: SEVERELY IRRITATING 3.

SUBCHRONIC INHALATION STUDIES WITH LABORATORY ANIMALS (CONDUCTED AT APPROXIMATELY 30% OF TH HAS SHOWN SPECIFIC ABNORMALITIES TO THE CARDIOVASCULAR, MUSCULOSKELETAL, AND UROGENITAL SYS OF THE DEVELOPING FETUS. REPORTED EFFECTS ALSO INCLUDED FETOTOXICITY. 3.

Section VII - Reactivity Data

Stability

☒ Stable

☐ Unstable

Hazardous Polymerization

☒ Will not occur

☐ May occur

Conditions to Avoid:

AVOID HEAT, HOT SURFACES, SPARKS, AND OPEN FLAMES.

Conditions to Avoid:

N/A

Incompatibility (Materials to Avoid):

STRONG OXIDIZING AGENTS SUCH AS CHLORINE BLEACH AND CONCENTRATED HYDROGEN PEROXIDE; CHROM ANHYDRIDE, PHOSPHOROUS TRIOXIDE, LEAD PERCHLORATE, PERCHLORIC ACID AND ETHYL ALCOHOL, IODINE MERCURIC OXIDE AND ETHYL ALCOHOL, SODIUM OR POTASSIUM HYDROXIDE, AND CHLOROFORM.

Hazardous Decomposition Products:

OXIDES OF CARBON; FORMALDEHYDE, AND FORMIC ACID.

Section VIII - Spill Or Leak Procedures

Steps to be Taken if Material is Released or Spilled:

WEAR APPROPRIATE PROTECTIVE CLOTHING. USE CARE AS SPILLS MAY BE SLIPPERY. ELIMINATE ALL SOURCE IGNITION. SHUT OFF SOURCE OF LEAK. DIKE AND CONTAIN SPILL. ABSORB WITH AN INERT MATERIAL AND TRAN ALL MATERIAL INTO A PROPERLY LABELED CONTAINER FOR DISPOSAL. PREVENT PRODUCT FROM CONTAMINATING SOIL OR FROM ENTERING SEWAGE AND DRAINAGE SYSTEMS AND BODIES OF WATER. FLUSH AREA WITH WATER

Waste Disposal Method(s):

DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS.

Neutralizing Agent:

N/A

Section IX - Special Protection Information

Required Ventilation:

LOCAL VENTILATION IS RECOMMENDED TO CONTROL EXPOSURE FROM OPERATIONS THAT CAN GENERATE EXCESSIVE LEVELS OF MISTS OR VAPORS. LOCAL VENTILATION IS PREFERRED, BECAUSE IT PREVENTS DISPER INTO WORK AREAS BY CONTROLLING IT AT ITS SOURCE.

Respiratory Protection:

RESPIRATORS SHOULD BE SELECTED BY AND USED UNDER THE DIRECTION OF A TRAINED HEALTH AND SAFETY PROFESSIONAL FOLLOWING REQUIREMENTS FOUND IN OSHA'S RESPIRATOR STANDARD (29 CFR 1910.134) AND STANDARD FOR RESPIRATORY PROTECTION (Z88.2-1992). FOR CONCENTRATIONS ABOVE THE TLV AND/OR PEL LESS THAN 10 TIMES THESE LIMITS, A NIOSH APPROVED HALF-FACEPIECE RESPIRATOR EQUIPPED WITH APPROPRIATE CHEMICAL CARTRIDGES MAY BE USED. FOR CONCENTRATIONS GREATER THAN 10 TIMES THE TLV AND/OR PEL CONSULT THE NIOSH RESPIRATOR DECISION LOGIC FOUND IN PUBLICATION NO. 87-116 OR ANSI Z88.2-1992.

Glove Protection:

NEOPRENE OR NITRILE RUBBER GLOVES IF REPEATED OR PROLONGED SKIN CONTACT IS LIKELY. ENSURE COMPLIANCE WITH OSHA'S PERSONAL PROTECTIVE EQUIPMENT (PPE) STANDARD FOR HAND PROTECTION, 29 CFR 1910.138.

Eye Protection:

CHEMICAL GOGGLES SHOULD BE WORN WHEN HANDLING. ENSURE COMPLIANCE WITH OSHA'S PERSONAL PROTECTIVE EQUIPMENT (PPE) STANDARD FOR EYE AND FACE PROTECTION, 29 CFR 1910.133.

Other Protection:

WEAR PROTECTIVE CLOTHING WHEN HANDLING. A SAFETY SHOWER AND AN EYEWASH STATION SHOULD BE AVAILABLE.

Section X - Storage and Handling Information

Storage Temperature

Max: 120°F Min: 0°F

Storage Conditions

☒ Indoors

☐ Outdoors

☐ Heated

☐ Refrigerated

Precautions to be Taken in Handling and Storing:

ALWAYS STORE MATERIAL IN ITS ORIGINAL CONTAINER. KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE WITH CAUTION AROUND HEAT, SPARKS, PILOT LIGHTS, STATIC ELECTRICITY, AND OPEN FLAME. EMPTY CONTAINERS MAY CONTAIN PRODUCT RESIDUES WHICH MAY EXHIBIT THE HAZARDS OF THE PRODUCT. TO AVOID POSSIBLE EXPLOSION DO NOT PRESSURIZE, CUT, WELD, SOLDER, DRILL, GRIND, OR EXPOSE EMPTY CONTAINERS TO HEAT, SURFACES, SPARKS, OR OPEN FLAMES. GROUND AND BOND CONTAINER WHEN HANDLING NEAR FLAMMABLE VAPORS AND ALL SOURCES OF IGNITION. USE WITH ADEQUATE VENTILATION WHEN OPENING DUE TO POTENTIAL HEAD CONTAMINATION.

Other Precautions:

KEEP OUT OF REACH OF CHILDREN. READ THE ENTIRE LABEL BEFORE USING THE PRODUCT. FOLLOW THE LABEL DIRECTIONS.

Section XI - Regulatory Information

Chemical Name

METHANOL

CAS Number

67-56-1

Upper % Limit

65

Those Ingredients listed above are subject to the reporting requirements of 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

Please call 1-800-527-9919 for additional information if you are a California customer. This MSDS is not intended for users in California.

Section XII - References

1. THRESHOLD LIMIT VALUES FOR CHEMICAL SUBSTANCES AND PHYSICAL AGENTS AND BIOLOGICAL EXPOSURE INDICES, ACGIH, 2005. 2. OSHA PEL. 3. VENDOR'S MSDS. 4. REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES, CCINFODisc, 2005. ALL THE COMPONENTS OF THIS PRODUCT ARE IN COMPLIANCE WITH THE TOXIC SUBSTANCE CONTROL ACT (TSCA) AND ARE EITHER LISTED ON THE TSCA INVENTORY OR OTHERWISE EXEMPTED FROM LISTING. IRR:IRRITANT, FLAM/FLAMM:FLAMMABLE, COMB:COMBUSTIBLE, CORR:CORROSIVE CARC:CARCINOGENIC, TOX:TOXIC, N/A:NOT APPLICABLE, N/E:NOT ESTABLISHED, COC:CLEVELAND OPEN CUP, PMCC:PENSKY-MARTIN CLOSED CUP, TCC:TAGLIABUE CLOSED CUP, LEL:LOWER EXPLOSION LIMIT, UEL:UPPER EXPLOSION LIMIT, NFPA:NATIONAL FIRE PROTECTION ASSOCIATION, IARC:INTERNATIONAL AGENCY FOR THE RESEARCH ON CANCER, NTP:NATIONAL TOXICOLOGY PROGRAM, OSHA:OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION, ACGIH:AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS, TLV:THRESHOLD LIMIT VALUE, PEL:PERMISSIBLE EXPOSURE LIMIT, STEL:SHORT-TERM EXPOSURE LIMIT, MLD:MILD, MOD:MODERATE, SEV:SEVERE, MUT:MUTAGENIC, ASPHYX:ASPHYXIA, PNO:PARTICLES (INSOLUBLE) NOT OTHERWISE SPECIFIED, SDT:STANDARD DRAIZE TEST, ORL:ORAL, IHL:INHALATION, HMN:HUMAN

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