MATERIAL SAFETY DATA SHEET: QWIK-START AEROSOL

Section I - General Information

Chemical Name & Synonyms: N/A
Chemical Family: ETHER/HYDROCARBON BLEND
Manufacturer Name: CERTIFIED LABS, DIV. OF NCH CORP.
Manufacturer Address: BOX 152170 IRVING, TEXAS 75015

Product Code Number: 5009
Emergency Phone Number: 800-424-9300

Section II - Hazardous Ingredients

The hazards presented below are those of the individual components.

Section III - Physical Data

Boiling Point (°F): -34°
Vapor Pressure (mm Hg): 4137
Vapor Density (Air=1): 2.5
pH @ 100%: 7
% Volatile by Volume: 100
H₂O Solubility: EMULSIFIABLE

Section IV - Fire and Explosion Hazard

Extinguishing Media:
- Foam
- Alcohol Foam
- CO₂
- Dry Chemical
- Water Spray
- Other

Special Fire Fighting Procedures:
- Firefighters should wear a self-contained breathing apparatus and full protective gear. Cool fire-exposed containers with water spray to prevent bursting.

Unusual Fire and Explosion Hazards:
- Product may produce a floating fire hazard as liquid floats on water. The use of water spray (FoG) while effective, may cause frothing and foaming. Never use a water jet as this will just spread the fire. Vapors are heavier than air and may travel to distant and/or low-lying sources of ignition and flashback. Flame extension is 48 inches, burnback is 36 inches. Use care as spills may be slippery.

NFPA 704 Hazard Rating: 1, 3, 4
Aerosol Level (NFPA 308): 3
Method Used: T.C.C.
UEL: 48.0
LEL: 1.8

Section V - Health and Hazard Data

Threshold Limit Value:
- Not established for mixture. See Section II.

Effects of Overexposure:

Acute: (Short Term Exposure)
- Eye Contact: Causes irritation seen as redness, stinging, tearing, and swelling. Prolonged contact may cause damage to eye tissue. Skin Contact: May cause irritation seen as itching and redness. Product may be absorbed through the skin in harmful amounts. Prolonged or repeated contact as from clothing wet with material may cause drying, defatting, and cracking of the skin. Inhalation: May cause respiratory irritation seen as coughing and sneezing. At low vapor concentrations, no harmful effects are expected. At high vapor concentrations, inhalation 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. 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.

Chronic: (Long Term Exposure)
- Acidosis, adrenal cortical exhaustion, and other metabolic stresses have resulted from prolonged continuous exposure to 1-2% Carbon Dioxide (10,000 PPM-20,000 PPM). Medical conditions aggravated by exposure are pre-existing respiratory and skin conditions such as asthma, emphysema, and dermatitis. Target Organ: Central Nervous System. 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:
- RINSE THE EYES WITH WATER. REMOVE ANY CONTACT LENSES AND CONTINUE FLUSHING WITH PLENTY OF WATER FOR SEVERAL MINUTES. SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS.
Skin Contact:
WASH AFFECTED AREAS WITH PLENTY OF SOAP AND WATER FOR SEVERAL MINUTES. SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS.

Ingestion:
GIVE 3 TO 4 GLASSES OF WATER, BUT DO NOT INDUCE VOMITING. IF VOMITING OCCURS, GIVE FLUIDS AGAIN. SEEK MEDICAL ATTENTION IF DISCOMFORT OCCURS.

Notes to Physician:
THERE IS NO SPECIFIC ANTIDOTE. TREAT THE PATIENT SYMPTOMATICALLY. 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.

Section VI - Toxicity Information

| Product Contains Chemicals Listed as Carcinogen or Potential Carcinogen By: |
| [ ] IARC | [ ] NTP | [ ] OSHA | [ ] ACGIH | [ ] Other |

VOC CONTENT: 94.5% BY WEIGHT

CARBON DIOXIDE
IHL-RAT TCL0: 10000 PPM/24h-30 DAYS CONTINUOUS 4.
OH-SMM LC50: 9 PPM/5M 4.

IT HAS BEEN REPORTED THAT PERSONS MAY TOLERATE 1.5% IN INHALED AIR FOR PROLONGED PERIODS WITHOUT ADVERSE EFFECTS, BUT CALCIUM/PHOSPHORUS METABOLISM MAY BE AFFECTED WITH SERUM LEVELS OF CALCIUM AND URINARY PHOSPHORUS PROGRESSIVELY FALLING. AT 3% IMPAIRMENT OF PERFORMANCE HAS BEEN NOTED. IT HAS, HOWEVER, BEEN DEMONSTRATED THAT THE DEVELOPMENT OF TOLERANCE MAY OCCUR DURING PROLONGED EXPOSURE TO LOW LEVELS.

OXYGEN DEFICIENCY DURING PREGNANCY HAS PRODUCED DEVELOPMENTAL ABNORMALITIES IN HUMANS AND EXPERIMENTAL ANIMALS. EXPOSURE OF FEMALE RATS TO 60,000 PPM CARBON DIOXIDE FOR 24 HOURS HAS PRODUCED TOXIC EFFECTS TO THE EMBRYO AND FETUS IN PREGNANT RATS.

DIETHYL ETHER
ORL-RAT LD50: 1215 MG/KG 3.

N-HEPTANE
IHL-RAT LC50: 103 G/M3/4H 3.
ORL-RAT TDL0: 60 G/KG/3W 1 3.

Section VII - Reactivity Data

Stability
[√] Stable

Hazardous Polymerization
[ ] Will not occur
[ ] May occur

Conditions to Avoid:

Avoid heat, hot surfaces, sparks, and open flames. Forms unstable peroxides upon prolonged contact with air which can concentrate and explode upon evaporation.

Incompatibility (Materials to Avoid):
STRONG OXIDIZING AGENTS SUCH AS CHLORINE BLEACH AND CONCENTRATED HYDROGEN PEROXIDE.

Hazardous Decomposition Products:
OXIDES OF CARBON AND NITROGEN.

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, WEAR APPROPRIATE PROTECTIVE CLOTHING, VENTILATE THE AREA, 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

Section IX - Special Protection Information

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

Respiratory Protection:

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

Eye Protection:
SAFETY GLASSES WITH SIDE SHIELDS IF THE METHOD OF USE PRESENTS THE LIKELIHOOD OF EYE CONTACT. ENSURE COMPLIANCE WITH OSRA'S PERSONAL PROTECTIVE EQUIPMENT (PPE) STANDARD FOR EYE AND FACE PROTECTION, 29 CFR 1910.133.

Other Protection:
WEAR GENERAL-DUTY WORK CLOTHES AND SHOES. A SAFETY SHOWER AND AN EYEWASH STATION SHOULD BE AVAILABLE.

Section X - Storage and Handling Information

| Storage Temperature |
| Max: 100°F | Min: 0°F |

| Storage Conditions |
| [√] Indoors | [ ] Outdoors | [ ] Heated | [ ] Refrigerated |

Precautions to Be Taken in Handling and Storing:
USE WITH CAUTION AROUND HEAT, SPARKS, PILOT LIGHTS, STATIC ELECTRICITY, AND OPEN FLAME.

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

Section XI - Regulatory Information

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<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>Upper % Limit</th>
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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 the state of California.

Section XII - References

1. THRESHOLD LIMIT VALUES FOR CHEMICAL SUBSTANCES AND PHYSICAL AGENTS AND BIOLOGICAL EXPOSURE INDICES, ACGIH, 2006.
2. OSHA PEL.
4. VENDOR’S MSDS.

ALL THE COMPONENTS OF THIS PRODUCT ARE IN COMPLIANCE WITH THE TOXIC SUBSTANCES CONTROL ACT (TSCA) AND ARE EITHER LISTED ON THE TSCA INVENTORY OR OTHERWISE EXEMPTED FROM LISTING.


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