NRP

MATERIAL SAFETY DATA SHEET

PRODUCT IDENTIFICATION

PRODUCT: NRP NICKEL SAFE ICE MACHINE CLEANER HMIS CODES: H F R PRODUCT CODE: NS1G / NS16OZ. 1 0 0

MANUFACTURER: COMSTAR INTERNATIONAL INC.

ADDRESS: 20-45 128th STREET, COLLEGE POINT, NY 11356

INFORMATION: 718-445-7900 **EMERGENCY:** CHEMTREC - 800-424-9300

DATE: 5/2003 PREPARER: R. Madariaga

DISTRIBUTOR: NATIONAL REFRIGERATION PRODUCTS

2900 SAMUEL DRIVE · BENSALEM, PA 19020-7306

1-800-352-6951

HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

OSHA ACGIH OTHER LIMITS PERCENTAGE
HAZARDOUS COMPONENTS CAS NUM PEL TLV RECOMMENDED (OPTIONAL)
(SPECIFIC CHEMICAL IDENTITY)
PHOSPHORIC ACID 7664-38-2 1MG/M3 1MG/M3
SUBFACTANT 0016-45-0 NA NA

 PHOSPHORIC ACID
 7664-38-2
 1MG/M3
 1MG/M3

 SURFACTANT
 9016-45-9
 NA
 NA

 CITRIC ACID
 77-92-9
 NA
 NA

PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: 260°F MELTING POINT: NA

VAPOR PRESSURE @ 70 DEG F: <0.01 SPECIFIC GRAVITY (H₂0=1): 1.3-1.6

VAPOR DENSITY (AIR=1): NA EVAPORATION RATE: NA

SOLUBILITY IN WATER: COMPLETE

APPEARANCE AND ODOR: GREEN WITH NO ODOR (Ph 1.5)

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: NONE FLAMMABLE LIMITS: LET: N/A UEL: N/A EXTINGUISHING MEDIA: WATER FOG, CO2, DRY CHEMICAL, UNIVERSAL FOAMS.

SPECIAL FIREFIGHTING PROCEDURES: SELF-CONTAINED RESPIRATORY PROTECTION SHOULD BE PROVIDED

FOR FIREMEN FIGHTING IN BUILDINGS OR CONFINED AREAS. **UNUSUAL FIRE AND EXPLOSION HAZARDS:** NONE KNOWN

REACTIVITY DATA

STABILITY: STABLE HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID: SEE BELOW CONDITIONS TO AVOID: NONE KNOWN INCOMPATIBILITY (MATERIALS TO AVOID): STRONG OXIDIZING AGENTS/BASES.

5/2003

HEALTH HAZARD DATA

ROUTE(S) OF ENTRY: INHALATION? YES SKIN? YES INGESTION? YES

HEALTH HAZARDS (ACUTE & CHRONIC): THIS IS A BLENDED PRODUCT WITH ACTIVE CORROSIVE INGREDIENTS LESS THAN 25 %. TESTS ON SKIN HAVE NOT DEMONSTRATED ANY ACUTE OR CHRONIC REACTIONS.

CARCINOGENITY: NO NTP? NO IARC MONOGRAPHS? NO OSHA REGULATED? NO

SIGNS AND SYMTOMS OF EXPOSURE: RASH, HEADACHE, NAUSEA, DIZZINESS.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: NONE KNOWN.

EMERGENCY AND FIRST AID PROCEDURES:

SKIN: REMOVE CONTAMINATED CLOTHING AND WASH SKIN WITH SOAP AND WATER.

EYES: HOLD EYELIDS OPEN AND FLUSH WITH WATER IMMEDIATELY AND CONTINUE FOR 15 MINUTES.

INGESTION: DRINK LARGE AMOUNTS OF WATER FOLLOWED WITH EGG WHITES / MINERAL OIL.

INHALATION: REMOVE TO FRESH AIR.

PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE OF RELEASE OR SPILL: SOAK, SWEEP OR VACUUM UP INTO APPROPRIATE PLASTIC HOLDING CONTIINERS. TO NEUTRALIZE, SPREAD SODA ASH OVER SPILL AREA AND INTO CLEANED UP LIQUID BEFORE DISPOSING.

WASTE DISPOSAL METHOD: DISPOSE OF ALL WASTE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

PRECAUTIONS FOR STORAGE AND HANDLING: KEEP AWAY FROM HEAT, SPARKS, OPEN FLAME OR DIRECT SUNSHINE. DO NOT PUNCTURE OR INCINERATE.

OTHER PRECAUTIONS: INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATION AND INHALING VAPOR CONTENTS CAN BE HARMFUL.

CONTROL MEASURES

RESPIRATORY PROTECTION: GOOD WORK PRACTICE DICTATES THE USE OF RESPIRATORY PROTECTION.

VENTILATION: LOCAL EXHAUST: YES SPECICAL: NONE MECHANICAL (GENERAL): YES OTHER: NONE

PROTECTIVE GLOVES: POLYFLUORINATED OR POLYVINYL ALCOHOL OR VITON.

EYE PROTECTION: SAFETY GOGGLES OR FACE SHIELD.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: PLASTIC OR RUBBER APRON.

WORK/HYGIENIC PRACTICES: WASH HANDS AFTER USE.

DISCLAIMER

INFORMATION AND RECOMMENDATIONS CONTAINED HERIN ARE BELIEVED TO BE ACCURATE AT THE TIME OF PREPARATION. NO WARRANTY IS MADE CONCERNING THE ACCURACY AND NO LIABILITY SHALL BE MADE FOR CLAIMS FOR USE OR RELIANCE OF THE RECOMMENDATIONS CONTAINED HEREIN.

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