



**EM SCIENCE  
KEROSENE**

Revised: 6/7/2002

*KCTC maintenance*

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**Item Number:**

3NE37, 3NE38, 3NE39, 3NE40, 3NE41, 3NE42, 3NE43, 3NE44, 3NE45, 3NE46, 3NE47, 3NE48, 3NE49, 3NE50, 3UB34, 3UB35, 3UB36, 3UB37

**Mfg. Model Number:**

BX9140301SPBWWG, BX9140302SPBWWG, BX9140303SPBWWG, BX9140304SPBWWG, BX9140306SPBWWG, BX9140307SPBWWG, BX9140308SPBWWG, BX9140601SPBWWG, BX9140602SPBWWG, BX9140603SPBWWG, BX9140604SPBWWG, BX9140606SPBWWG, BX9140607SPBWWG, BX9140608SPBWWG, BX9140309SPBWWG, BX9140313SPBWWG, BX9140609SPBWWG, BX9140613SPBWWG

**MATERIAL SAFETY DATA SHEET**

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT NAME: KEROSENE

MANUFACTURER:  
EM SCIENCE  
A DIVISION OF EM INDUSTRIES  
P.O. BOX 70  
480 DEMOCRAT ROAD  
GIBBSTOWN, N.J. 08027

FOR MORE INFORMATION CALL:  
856-423-6300 TECHNICAL SERVICE  
MONDAY-FRIDAY: 8:00 AM-5:00 PM

SYNONYM: NONE.

MATERIAL USES: ANALYTICAL REAGENT.

CHEMICAL FAMILY: HYDROCARBON.

PRODUCT CODE: KX0020

EFFECTIVE DATE: 6/7/2002

IN CASE OF EMERGENCY CALL:  
800-424-9300 CHEMTREC (USA)

*8 pages*

*Attn: Tom  
From: Amy of Grainger*

613-996-6666 CANUTEC (CANADA)  
24 HOURS/DAY: 7 DAYS/WEEK

## SECTION 2. COMPOSITION AND INFORMATION ON INGREDIENTS

COMPONENT	CAS #	% BY WEIGHT
KEROSENE	8008-20-6	100

## SECTION 3. HAZARDS IDENTIFICATION

PHYSICAL STATE AND APPEARANCE: LIQUID.

EMERGENCY OVERVIEW:

WARNING!

ASPIRATION HAZARD.

HARMFUL IF INHALED OR SWALLOWED.

FLAMMABLE LIQUID AND VAPOR.

VAPOR MAY CAUSE FIRE.

CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION.

SUSPECT CANCER HAZARD.

MAY CAUSE CANCER.

CONTAINS MATERIAL WHICH CAUSES DAMAGE TO THE FOLLOWING ORGANS: RESPIRATORY TRACT, SKIN, CENTRAL NERVOUS SYSTEM, EYE, LENS OR CORNEA.

ROUTES OF ENTRY: ABSORBED THROUGH SKIN. EYE CONTACT. INHALATION. INGESTION.

POTENTIAL ACUTE HEALTH EFFECTS:

EYES:

HAZARDOUS IN CASE OF EYE CONTACT (IRRITANT). INFLAMMATION OF THE EYE IS CHARACTERIZED BY REDNESS, WATERING, AND ITCHING.

SKIN:

HAZARDOUS IN CASE OF SKIN CONTACT (IRRITANT). SKIN INFLAMMATION IS CHARACTERIZED BY ITCHING, SCALING, REDDENING, OR, OCCASIONALLY, BLISTERING.

INHALATION: HAZARDOUS IN CASE OF INHALATION (LUNG IRRITANT).

INGESTION:

HAZARDOUS IN CASE OF INGESTION. ASPIRATION HAZARD IF SWALLOWED-CAN ENTER LUNGS AND CAUSE DAMAGE.

POTENTIAL CHRONIC HEALTH EFFECTS:

CARCINOGENIC EFFECTS: CLASSIFIED 2A (PROBABLE FOR HUMAN.) BY IARC.  
ADDITIONAL INFORMATION SEE TOXICOLOGICAL INFORMATION (SECTION 11)

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:

REPEATED EXPOSURE TO A HIGHLY TOXIC MATERIAL MAY PRODUCE GENERAL DETERIORATION OF HEALTH BY AN ACCUMULATION IN ONE OR MANY HUMAN ORGANS.

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## SECTION 4. FIRST AID MEASURES

### EYE CONTACT:

CHECK FOR AND REMOVE ANY CONTACT LENSES. IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION IMMEDIATELY.

### SKIN CONTACT:

IN CASE OF CONTACT, IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. COVER THE IRRITATED SKIN WITH AN EMOLLIENT. WASH CLOTHING BEFORE REUSE. THOROUGHLY CLEAN SHOES BEFORE REUSE. GET MEDICAL ATTENTION IMMEDIATELY.

### INHALATION:

IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET MEDICAL ATTENTION IMMEDIATELY.

### INGESTION:

DO NOT INDUCE VOMITING. IF AFFECTED PERSON IS CONSCIOUS GIVE PLENTY OF WATER TO DRINK. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

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## SECTION 5. FIRE FIGHTING MEASURES

FLAMMABILITY OF THE PRODUCT: COMBUSTIBLE.

AUTO-IGNITION TEMPERATURE: 228.9 DEG. C (444 DEG. F)

### FLASH POINTS:

CLOSED CUP: 37.9 TO 85.05 DEG. C (100.2 TO 185.1 DEG. F).

FLAMMABLE LIMITS: NOT AVAILABLE.

PRODUCTS OF COMBUSTION: NOT AVAILABLE.

### FIRE HAZARDS IN PRESENCE OF VARIOUS SUBSTANCES:

FLAMMABLE IN PRESENCE OF OPEN FLAMES, SPARKS AND STATIC DISCHARGE, OF HEAT, OF OXIDIZING MATERIALS.

### EXPLOSION HAZARDS IN PRESENCE OF VARIOUS SUBSTANCES:

RISKS OF EXPLOSION OF THE PRODUCT IN PRESENCE OF STATIC DISCHARGE:  
FLAMMABLE IN PRESENCE OF OPEN FLAMES, SPARKS AND STATIC DISCHARGE.

RISKS OF EXPLOSION OF THE PRODUCT IN PRESENCE OF MECHANICAL IMPACT: NO.

### FIRE FIGHTING MEDIA AND INSTRUCTIONS:

SMALL FIRE: USE DRY CHEMICAL POWDER.

LARGE FIRE: USE WATER SPRAY, FOG OR FOAM. DO NOT USE WATER JET.

### PROTECTIVE CLOTHING (FIRE):

BE SURE TO USE AN APPROVED/CERTIFIED RESPIRATOR OR EQUIVALENT.

SPECIAL REMARKS ON FIRE HAZARDS: NOT AVAILABLE.

SPECIAL REMARKS ON EXPLOSION HAZARDS: NOT AVAILABLE.

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

### SMALL SPILL AND LEAK:

ABSORB WITH AN INERT MATERIAL AND PUT THE SPILLED MATERIAL IN AN APPROPRIATE WASTE DISPOSAL.

### LARGE SPILL AND LEAK:

KEEP AWAY FROM HEAT. KEEP AWAY FROM SOURCES OF IGNITION. STOP LEAK IF WITHOUT RISK. DO NOT GET WATER INSIDE CONTAINER. DO NOT TOUCH SPILLED MATERIAL. USE WATER SPRAY TO REDUCE VAPORS. PREVENT ENTRY INTO SEWERS, BASEMENTS OR CONFINED AREAS; DIKE IF NEEDED. CALL FOR ASSISTANCE ON DISPOSAL. BE CAREFUL THAT THE PRODUCT IS NOT PRESENT AT A CONCENTRATION LEVEL ABOVE TLV. CHECK TLV ON THE MSDS AND WITH LOCAL AUTHORITIES.

### SPILL KIT INFORMATION:

THE FOLLOWING EM SCIENCE SPILLSOLV(TM) ABSORBENT IS RECOMMENDED FOR THIS PRODUCT: SX1330 SOLVENT TREATMENT KIT

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## SECTION 7. HANDLING AND STORAGE

### HANDLING:

KEEP AWAY FROM HEAT, SPARKS AND FLAME. DO NOT INGEST. KEEP CONTAINER CLOSED. DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING.

STORAGE: KEEP CONTAINER IN A COOL, WELL-VENTILATED AREA.

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## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### ENGINEERING CONTROLS:

PROVIDE EXHAUST VENTILATION OR OTHER ENGINEERING CONTROLS TO KEEP THE AIRBORNE CONCENTRATIONS OF VAPORS BELOW THEIR RESPECTIVE OCCUPATIONAL EXPOSURE LIMITS. ENSURE THAT EYEWASH STATIONS AND SAFETY SHOWERS ARE PROXIMAL TO THE WORK-STATION LOCATION.

### PERSONAL PROTECTION:

EYES: SPLASH GOGGLES.

BODY: LAB COAT.

### RESPIRATORY:

VAPOR RESPIRATOR. BE SURE TO USE AN APPROVED/CERTIFIED RESPIRATOR OR EQUIVALENT. WEAR APPROPRIATE RESPIRATOR WHEN VENTILATION IS INADEQUATE.

HANDS: GLOVES.

FEET: NOT APPLICABLE.

### PERSONAL PROTECTION IN CASE OF A LARGE SPILL:

SPLASH GOGGLES. FULL SUIT. VAPOR RESPIRATOR. BOOTS. GLOVES. A

PERSONAL PROTECTION IN CASE OF A LARGE SPILL:  
SPASH GOGGLES. FULL SUIT. VAPOR RESPIRATOR. BOOTS. GLOVES. A

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SELF-CONTAINED BREATHING APPARATUS SHOULD BE USED TO AVOID INHALATION OF THE PRODUCT. SUGGESTED PROTECTIVE CLOTHING MIGHT NOT BE SUFFICIENT; CONSULT A SPECIALIST BEFORE HANDLING THIS PRODUCT.

PRODUCT NAME	EXPOSURE LIMITS
KEROSENE	ARBEJDSTILSYNET (DENMARK, 2000). GV: 180 MG/M3 GV: 25 PPM NIOSH REL (UNITED STATES, 2000). TWA: 100 MG/M3 PERIOD: 10 HOUR(S).

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

ODOR: NOT AVAILABLE.

COLOR: COLORLESS.

PHYSICAL STATE AND APPEARANCE: LIQUID.

MOLECULAR WEIGHT: NOT AVAILABLE.

MOLECULAR FORMULA: NOT AVAILABLE.

pH: NOT APPLICABLE.

BOILING/CONDENSATION POINT: 175.06 TO 325.06 DEG. C (347.1 TO 617.1 DEG. F)

MELTING/FREEZING POINT: -45.55 DEG. C (-50 DEG. F)

SPECIFIC GRAVITY: 0.8 (WATER = 1)

VAPOR PRESSURE: NOT AVAILABLE.

VAPOR DENSITY: 4.5 (AIR = 1)

ODOR THRESHOLD: NOT AVAILABLE.

EVAPORATION RATE: 0.212138

LOGKOW: NOT AVAILABLE.

SOLUBILITY: INSOLUBLE IN WATER.

## SECTION 10. STABILITY AND REACTIVITY

STABILITY AND REACTIVITY: THE PRODUCT IS STABLE.

CONDITIONS OF INSTABILITY: NOT AVAILABLE.

INCOMPATIBILITY WITH VARIOUS SUBSTANCES: NOT AVAILABLE.

REM/INCOMPATIBILITY: NOT AVAILABLE.

HAZARDOUS DECOMPOSITION PRODUCTS: NOT AVAILABLE.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

**SECTION 11. TOXICOLOGICAL INFORMATION**

RTECS NUMBER: KEROSENE OA5500000

TOXICITY:  
ACUTE ORAL TOXICITY (LD50): 2835 MG/KG (RABBIT).

CHRONIC EFFECTS ON HUMANS:  
CARCINOGENIC EFFECTS: CLASSIFIED 2A (PROBABLE FOR HUMAN.) BY IARC.

ACUTE EFFECTS ON HUMANS:  
HAZARDOUS IN CASE OF EYE CONTACT (IRRITANT). INFLAMMATION OF THE EYE IS CHARACTERIZED BY REDNESS, WATERING, AND ITCHING. HAZARDOUS IN CASE OF SKIN CONTACT (IRRITANT). SKIN INFLAMMATION IS CHARACTERIZED BY ITCHING, SCALING, REDDENING, OR, OCCASIONALLY, BLISTERING. HAZARDOUS IN CASE OF INHALATION (LUNG IRRITANT). HAZARDOUS IN CASE OF INGESTION.

SYNERGETIC PRODUCTS (TOXICOLOGICALLY): NOT AVAILABLE.

IRRITANCY:  
DRAIZE TEST (RABBIT):  
SKIN: 500 MG/TIME NOT AVAILABLE.  
REACTION: SEVERE.

SENSITIZATION: NOT AVAILABLE.

CARCINOGENIC EFFECTS: CLASSIFIED 2A (PROBABLE FOR HUMAN.) BY IARC.

TOXICITY TO REPRODUCTIVE SYSTEM: NOT AVAILABLE.

TERATOGENIC EFFECTS: NOT AVAILABLE.

MUTAGENIC EFFECTS:  
TESTS ON LABORATORY ANIMALS FOR MUTAGENIC EFFECTS ARE CITED IN REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES (RTECS).

**SECTION 12. ECOLOGICAL INFORMATION**

ECOTOXICITY: NOT AVAILABLE.

BOD5 AND COD: NOT AVAILABLE.

**SECTION 13. DISPOSAL CONSIDERATIONS**

EPA WASTE NUMBER: D001

TREATMENT:

INCINERATION, FUELS BLENDING OR RECYCLE. CONTACT YOUR LOCAL PERMITTED WASTE DISPOSAL SITE (TSD) FOR PERMISSIBLE TREATMENT SITES. ALWAYS CONTACT A PERMITTED WASTE DISPOSAL (TSD) TO ASSURE COMPLIANCE WITH ALL CURRENT LOCAL, STATE, AND FEDERAL REGULATIONS.

**SECTION 14. TRANSPORT INFORMATION**

DOT CLASSIFICATION: NOT AVAILABLE.  
TDG CLASSIFICATION: NOT AVAILABLE.  
IMO/IMDG CLASSIFICATION: NOT AVAILABLE.  
ICAO/IATA CLASSIFICATION: NOT AVAILABLE.

**SECTION 15. REGULATORY INFORMATION**

U.S. FEDERAL REGULATIONS:

TSCA 8(B) INVENTORY: KEROSENE

SARA 302/304/311/312 EXTREMELY HAZARDOUS SUBSTANCES:  
NO PRODUCTS WERE FOUND.

SARA 302/304 EMERGENCY PLANNING AND NOTIFICATION: NO PRODUCTS WERE FOUND.

SARA 302/304/311/312 HAZARDOUS CHEMICALS: KEROSENE

SARA 311/312 MSDS DISTRIBUTION - CHEMICAL INVENTORY - HAZARD IDENTIFICATION:

KEROSENE:

FIRE HAZARD, IMMEDIATE (ACUTE) HEALTH HAZARD, DELAYED (CHRONIC) HEALTH HAZARD

SARA 313 TOXIC CHEMICAL NOTIFICATION AND RELEASE REPORTING:  
NO PRODUCTS WERE FOUND.

CLEAN WATER ACT (CWA) 307: NO PRODUCTS WERE FOUND.

CLEAN WATER ACT (CWA) 311: NO PRODUCTS WERE FOUND.

CLEAN AIR ACT (CAA) 112 ACCIDENTAL RELEASE PREVENTION:  
NO PRODUCTS WERE FOUND.

CLEAN AIR ACT (CAA) 112 REGULATED FLAMMABLE SUBSTANCES:  
NO PRODUCTS WERE FOUND.

CLEAN AIR ACT (CAA) 112 REGULATED TOXIC SUBSTANCES:  
NO PRODUCTS WERE FOUND.

WHMIS (CANADA):

CLASS B-3:

COMBUSTIBLE LIQUID WITH A FLASH POINT BETWEEN 37.8 DEG. C (100 DEG. F) AND 93.3 DEG. C (200 DEG. F).



CLASS D-2A: MATERIAL CAUSING OTHER TOXIC EFFECTS (VERY TOXIC).

CLASS D-2B: MATERIAL CAUSING OTHER TOXIC EFFECTS (TOXIC).

CEPA DSL: KEROSENE

THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CONTROLLED PRODUCT REGULATIONS AND THE MSDS CONTAINS ALL REQUIRED INFORMATION.

INTERNATIONAL REGULATIONS:

EINECS: KEROSENE 232-366-4

DSCL (EEC):

R65- HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED.

INTERNATIONAL LISTS:

AUSTRALIA (NICNAS): KEROSENE

CHINA: KEROSENE

KOREA (TCCL): KEROSENE

PHILIPPINES (RA6969): KEROSENE

CHINA: KEROSENE

STATE REGULATIONS:

PENNSYLVANIA RTK:

KEROSENE: (GENERIC ENVIRONMENTAL HAZARD)

MASSACHUSETTS RTK: KEROSENE

NEW JERSEY: KEROSENE

CALIFORNIA PROP. 65: NO PRODUCTS WERE FOUND.

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## SECTION 16. OTHER INFORMATION

NATIONAL FIRE PROTECTION ASSOCIATION (U.S.A.):

HEALTH 0

FIRE HAZARD 2

REACTIVITY 0

SPECIFIC HAZARD

CHANGED SINCE LAST REVISION |

NOTICE TO READER:

THE STATEMENTS CONTAINED HEREIN ARE BASED UPON TECHNICAL DATA THAT EM INDUSTRIES BELIEVES TO BE RELIABLE, ARE OFFERED FOR INFORMATION PURPOSES ONLY AND AS A GUIDE TO THE APPROPRIATE PRECAUTIONARY AND EMERGENCY HANDLING OF THE MATERIAL BY A PROPERLY TRAINED PERSON HAVING THE NECESSARY TECHNICAL SKILLS. USERS SHOULD CONSIDER THESE DATA ONLY AS A SUPPLEMENT TO OTHER INFORMATION GATHERED BY THEM AND MUST MAKE INDEPENDENT DETERMINATIONS OF SUITABILITY AND COMPLETENESS OF INFORMATION FROM ALL SOURCES TO ASSURE PROPER USE, STORAGE AND DISPOSAL OF THESE MATERIALS AND THE SAFETY AND HEALTH OF EMPLOYEES AND CUSTOMERS AND THE PROTECTION OF THE ENVIRONMENT. EM INDUSTRIES MAKES NO REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE, WITH RESPECT TO THE INFORMATION HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS.

