

OUR PART#
PE5005

MATERIAL SAFETY DATA SHEET

I. GENERAL INFORMATION

KLEENTEC, INC.
1212 SYKES STREET
ALBERT LEA, MN 56007

REVISION DATE: 8/12/94
EMERGENCY PHONE: 507-373-5152

PRODUCT (TRADE NAME AND SYNONYMS)
ENGINE COOLANT CONCENTRATE

TRADE NAME AND SYNONYMS
KLEENTEC ENGINE COOLANT CONCENTRATE

CHEMICAL FAMILY
INDUSTRIAL WATER
TREATMENT/OXIDIZER

II. INGREDIENTS

PRINCIPAL HAZARDOUS COMPONENTS	% COMP	ID#	THRESHOLD LIMIT VALUES
SODIUM NITRATE	< 5%	CAS# 7632-00-0	NOT ESTABLISHED
SODIUM NITRITE	< 5%	CAS# 7631-99-4	NOT ESTABLISHED
SODIUM HYDROXIDE	< 2%	CAS# 1310-73-2	NOT ESTABLISHED
2-MERCAPTOBENZOTHAZOLE	< 5%	CAS# 149-30-4	NOT ESTABLISHED
SODIUM BORATE	< 10%	CAS# 1303-96-4	NOT ESTABLISHED

III. PHYSICAL DATA

BOILING POINT:
102 DEGREES C (216 DEGREES F)
VAPOR PRESSURE (mm Hg):
760 mm Hg @ 100 DEGREES CELSIUS
VAPOR DENSITY (AIR=1):
N/A
SOLUBILITY IN WATER:
COMPLETE
APPEARANCE & ODOR:
RED COLORED LIQUID-MILD ODOR
SPECIFIC GRAVITY (H2O=1):
1,170+/- .005 kg/L
PERCENT VOLATILE BY VOLUME (%):
N/A
EVAPORATION RATE:
N/A
pH:
11.3

IV. FIRE & EXPLOSION HAZARD DATA

FLASH POINT (TEST METHOD):

N/A

FLAMMABLE LIMITS:

N/A

EXTINGUISHING MEDIA:

N/A

AUTO IGNITION TEMPERATURE:

NOT ESTABLISHED

LEL:

NOT ESTABLISHED

UEL:

NOT ESTABLISHED

SPECIAL FIRE FIGHTING PROCEDURES:

KEEP UPWIND OF FIRE. USE WATER SPRAY TO COOL CONTAINERS EXPOSED TO FIRE. WEAR FULL PROTECTIVE CLOTHING INCLUDING SELF-CONTAINED BREATHING APPARATUS.

UNUSUAL FIRE & EXPLOSION HAZARDS:

THIS IS AN OXIDIZER. DO NOT STORE NEAR FUELS. DO NOT MIX WITH PAPER, COMPOST HEAPS, OR OTHER DECAYING ORGANIC MATTER. COMBINATION OF NITRATES WITH ORGANIC MATTER COULD CAUSE EXPLOSION.

V. HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE:

NOT ESTABLISHED

OSHA TLV:

NOT DETERMINED

ACGIH TLV:

NOT DETERMINED

CARCINOGEN-NTP PROGRAM:

NOT KNOWN OR SUSPECTED

CARCINOGEN-ARC PROGRAM:

NOT KNOWN OR SUSPECTED

SYMPTOMS OF EXPOSURE:

ACUTE: MAY CAUSE FLUSHED FACE, IRREGULAR HEARTBEAT, TREMORS, OR DIZZINESS. INTERNAL INGESTION OF A LARGE AMOUNT MAY CAUSE SYSTEMATIC EFFECTS AND COULD BE FATAL.

CHRONIC: MAY CAUSE ALLERGIC SKIN REACTION IN SOME INDIVIDUALS AND POSSIBLE YELLOWING OF SKIN.

PRIMARY ROUTES OF ENTRY:

SKIN CONTACT, EYE CONTACT, INGESTION, OR INHALATION (MIST).

EMERGENCY FIRST AID:

SKIN: FLUSH WITH WATER, THEN WASH THOROUGHLY WITH SOAP AND WATER.

EYES: FLUSH WITH WATER FOR 15 MINUTES, SEEK MEDICAL ATTENTION.

INGESTION: CONTACT A PHYSICIAN IMMEDIATELY. DRINK PLENTY OF WATER. AVOID ALCOHOLIC BEVERAGES.

VI: REACTIVITY DATA

STABILITY:

STABLE MIXTURE

CONDITIONS TO AVOID:

EXTREME HEAT, FLAME, INCOMPATIBLE MATERIALS, FLAMMABLES.

INCOMPATIBILITY:

HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

MATERIAL TO AVOID:

STRONG ACIDS, DECAYING ORGANIC MATERIAL, COMBUSTIBLE MATERIALS

HAZARDOUS DECOMPOSITION PRODUCTS:

AT HIGH TEMPERATURES, WILL YIELD OXIDES OF NITROGEN, SULFUR, CARBON, BORON, AND SODIUM.

VII. ENVIRONMENTAL PROTECTION PROCEDURES

SPILL RESPONSE:

KEEP SPILLED MATERIAL AWAY FROM COMBUSTIBLES FOR LARGE SPILLS, USE OSHA APPROVED SELF CONTAINED BREATHING APPARATUS, RUBBER GLOVES, PROTECTIVE EYE WEAR, AND PROTECTIVE CLOTHING.

WASTE DISPOSAL METHOD:

RCRA IGNITABLE HAZARDOUS WASTE. DISPOSE OF WASTE MATERIAL IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

VIII. SPECIAL PROTECTION INFORMATION:

EYE PROTECTION:

WEAR CHEMICAL SAFETY GOGGLES.

RESPIRATORY PROTECTION:

WHERE REQUIRED, USE OSHA APPROVED SELF-CONTAINED BREATHING APPARATUS.

OTHER PROTECTION:

WEAR RUBBER APRON, LONG-SLEEVED SHIRT, AND TROUSERS. FOR PROLONGED CONTACT, WEAR IMPERVIOUS CLOTHING.

SKIN PROTECTION:

WEAR RUBBER GLOVES OR IMPERVIOUS GLOVES.

VENTILATION RECOMMENDED:

FOR LARGE SPILLS, OPEN ALL AIR PASSAGES FOR VENTILATION UNTIL SPILL IS CLEAN.

IX. SPECIAL PRECAUTIONS

HYGIENIC PRACTICES IN HANDLING & STORAGE:

WASH AFTER HANDLING, AND BEFORE EATING, DRINKING, OR SMOKING. REMOVE CONTAMINATED CLOTHES AND FOOTWEAR. WASH CLOTHES BEFORE RE-USE.

PRECAUTIONARY MEASURES:

STORE IN COOL, DRY PLACE AWAY FROM COMBUSTIBLE MATERIALS AND ACIDS. KEEP CONTAINERS CLOSED WHEN NOT IN USE. DO NOT INHALE MISTS.

MSDST