ITEM: 4RP91 - Meter Liquid Flow

PICK REO: 1101528205

MATERIAL SAFETY DATA SHEET (MSDS)

MSDS: **BO417**

CC

CRYSTAL CLEAN

100% VIRGIN SOLVENT

MATERIAL SAFETY DATA SHEET

CRYSTAL CLEAN 106 MINERAL SPIRITS

REVISION DATE: 07/19/2006

- 1. PRODUCT AND COMPANY IDENTIFICATION -

PRODUCT NAME: CRYSTAL CLEAN 106 MINERAL SPIRITS

HERITAGE-CRYSTAL CLEAN, LLC 2175 POINT BOULEVARD SUITE 375 ELGIN, IL 60123-7873

TECHNICAL CONTACT: HERITAGE-CRYSTAL CLEAN, LLC - EHS DEPARTMENT

TELEPHONE: 877-938-7948 OR 847-836-5670

FAX: 847-836-5677

EMAIL: EHS@CRYSTAL-CLEAN.COM

WEBSITE: WWW.CRYSTAL-CLEAN.COM

SYNONYMS:

MINERAL SPIRITS, PETROLEUM NAPHTHA, PARTS CLEANER SOLVENT, STODDARD SOLVENT, PETROLEUM DISTILLATES

EMERGERCY TELEPHONE NUMBERS: MEDICAL: LOCAL POISON CONTROL CENTER OR HOSPITAL

TECHNICAL QUESTIONS: HERITAGE-CRYSTAL CLEAN, LLC. 877-938-7948

— 2. COMPOSITION / INFORMATION OF INGREDIENTS —

COMPONENT NAME

CAS NO.

MIXTURE 95-63-6

PETROLEUM HYDROCARBON NAPHTHA 1,2,4 - TRIMETHYLBENZENE

95 - 100 . 0 - 5

THIS SOLVENT MAY BE PRODUCED FROM SEVERAL SOURCES UTILIZING DIFFERENT REFINING PROCESSES THAT GENERATE DIFFERENT CAS REGISTRY NUMBERS BASED ON THE REFINING PROCESS USED. PETROLEM SOLVENT NAPHTHA, MEDIUM ALIPHATIC IS A COMPLEX STREAM OF PREDOMINANTLY C9 TO C12 HYDROCARBONS.

THE VOLUME OF 1,2,4 - TRIMETHYLBENZENE LISTED ABOVE IS INCLUDED IN THE STODDARD SOLVENT MIXTURE. IT IS LISTED SEPARATELY FOR THE PURPOSE OF SARA 313 REPORTING.

3. HAZARDS IDENTIFICATION -

MAJOR ROUTES OF ENTRY: SKIN CONTACT. INHALATION

OSHA PHYSICAL HAZARD CLASSIFICATION: COMBUSTIBLE

POTENTIAL HEALTH EFFECTS:

INHALATION:

BREATHING OF VAPOR OR MIST IS POSSIBLE AND MAY BE IRRITATING TO THE RESPIRATORY SYSTEM. BREATHING SMALL AMOUNTS OF THIS MATERIAL DURING MORWAL HANDLING IS NOT LIKELY TO CAUSE HARMFUL EFFECTS. IN APPLICATIONS WHERE VAPORS (CAUSED BY HIGH TEMPERATURES) OR MISTS (CAUSED BY MIXING) ARE CREATED, BREATHING MAY CAUSE A MILD BURNING SENSATICN IN THE MOSE, THROAT, AND LUNGS. BREATHING HIGH TEMPERATURE VAPOR CONCENTRATIONS MAY CAUSE CENTRAL NERWOUS SYSTEM DEPRESSION RESULTING IN DIZZINESS, LIGHT-HEADEDINESS, HEADACHES, NAUSEA, AND LOSS OF COORDINATION, VAPORS CAN REDUCE THE OXYGEN CONTENT IN AIR. APPROXIMATELY 20,000 PPM (2% VOLUME) IN AIR IS FATAL TO HUMANS IN 5 - 10 MINUTES, CONTINUED INHALATION MAY RESULT IN UNCONSCIOUSNESS AND DEATH.

EYE CONTACT:

THIS MATERIAL MAY CAUSE TEMPORARY DISCOMPORT OR IRRITATION TO THE EYES.
SYMPTOMS MAY INCLUDE STINGING, TEARING, RETNESS, AND SWELLING OF THE EYES.

THIS MATERIAL CAN BE MODERATELY IRRITATING TO THE SKIN CAUSING BURNING SENSATIONS, REINESS, AND/OR ITCHING. THOUGH NON-TOXIC, IF ABSORBED THROUGH THE SKIN, IT MAY PRODUCE CENTRAL NERVOUS DEPRESSION EFFECTS (SEE INHALATION HAZARDS).

INGESTION:
SWALLOWING SWALL AMOUNTS OF THIS MATERIAL DURING NORMAL HANDLING IS NOT
LIKELY TO CAUSE HARMFUL EFFECTS, SWALLOWING LARGE AMOUNTS MAY BE HARMFUL.
MATERIAL MAY IRRITATE MUCOUS MEMBRANES OF THE MOUTH, THROAT, AND ESOPHAGUS.
IT CAN BE READILY ABSORBED BY THE STOMACH AND INVESTINAL TRACT, SYMPTOMS
INCLUDE A BURNING SENSATION OF THE MOUTH AND ESOPHAGUS, NAUSEA, VOMITING,
DIZZINESS, STAGGERING GAIT, DROWSINESS, LOSS OF CONSCIOUSNESS, AND CENTRAL
NERVOUS SYSTEM EFFECTS (SEE INHALATION HAZARDS). THIS MATERIAL CAN GET INTO
THE LUNGS (ASPIRATION) DURING SWALLOWING OR VOMITING RESULTING IN LUNG
INFLAMMATION OR OTHER LUNG INJURY SUCH AS FATAL CHEMICAL PNEUMONITIS.

AGGRAVATED CONDITIONS: SKIN CONTACT CAN AGGRAVATE EXISTING DERMATITIS. PREEXISTING EYE AND RESPIRATORY DISORDERS MAY ALSO BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

NFPA HAZARD RATING HEALTH 1 = SLIGHT FIRE 2 = MODERATE REACTIVITY 0 = NEGLIGIBLE

NFPA: НЕАLЛΉ REACTIVITY 0

NPCA/HMIS RATING: HEALTH FIRE REACTIVITY 1 = SLIGHT 2 = MODERATE 0 = NEGLIGIBLE PROTECTIVE EQUIPMENT C, X

C = SAFETY GOGGLES OR GLASSES, GLOVES, SYNTHETIC APRON X = CONSULT SUPERVISOR FOR HANDLING INFO.

HEALTH *1
FLAMMABILITY 2
REACTIVITY 0
PROTECTIVE EQUIP C, X

----- 4. FIRST AID MEASURES -

INHALATION:
IF SYMPIC'S DEVELOP, MOVE INDIVIDUAL AWAY FROM EXPOSURE AND INTO FRESH AIR.
IF SYMPIC'S PERSIST, SEEK MEDICAL ATTEMTION. IF VICTIM HAS DIFFICULTY IN
BREATHING, TIGHINESS OF THE CHEST, IS DIZZY, IS VOMITING, OR IS
UNRESPONSIVE, ALMINISTER OXYGEN OR ARTIFICIAL RESPIRATION OR CPR IF
REQUIRED UNTIL MEDICAL ASSISTANCE CAN BE RENDERED AND TRANSPORT TO THE
NEAREST MEDICAL FACILITY.

IF SYMPTOMS DEVELOP, IMMEDIATELY MOVE INDIVIDUAL AWAY FROM EXPOSURE AND INTO FRESH AIR. FLUSH EYES GENTLY WITH WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS APART. SEEK IMMEDIATE MEDICAL ATTENTION.

REMOVE CONTAMINATED CLOTHING. FLUSH EXPOSED AREA WITH LARGE AMOUNTS OF WATER. IF SKIN IS DAMAGED, SEEK IMMEDIATE MEDICAL ATTENTION. IF SKIN IS NOT DAMAGED AND SYMPTOMS PERSIST, SEEK MEDICAL ATTENTION. LAUNDER CLOTHING

INGESTION:

DO NOT INDUCE VOMITING, CONTACT A PHYSICIAN, POISON CONTROL, OR A HOSPITAL BEFREENCY ROOM IMPEDIATELY. HAVE VICTIM RINSE MOUTH WITH WATER TO REMOVE TASTE FROM MOUTH. IF VICTIM IS COUCHING, CHOKING, HAS SHORINESS OF EREATH, OR DIFFICULTY IN BEREATHING, TRANSPORT TO THEAREST MEDICAL FACILITY FOR ADDITIONAL TREATMENT. IF ANY OF THE DELAYED SIGNS AND SYMPTOMS APPEAR WITHIN THE NEXT 6 HOURS, TRANSPORT TO THE NEAREST MEDIAL FACILITY: FEVER GREATER THAT 101 DEG. F, SHORINESS OF BREATH, CHEST CONSESTION, OR CONTINUED COUCHING OR WHEEZING. IF VOMITING OCCURS SPONTANEOUSLY, KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION.

NOTE TO PHYSICIAN: INJE TU PHYSICIAN:
INHALATION OVEREXPOSURE CAN PRODUCE TOXIC EFFECTS. MONITOR FOR RESPIRATORY
DISTRESS. IF COUGHING OR DIFFICULT BREATHING DEVELOPS, EVALUATE FOR UPPER
RESPIRATORY TRACT INFLAMMATION, BRONCHITTS, AND PHEUMONITIS. VIGOROUS
ANTI-INFLAMMATORY/SIEROID TREATMENT MAY BE REQUIRED AT FIRST EVIDENCE OF
UPPER ALRVAY OR PULMONARY EDEMA. ADMINISTER 100% HUMIDIPIED OXYGEN WITH
ASSISTED VENTILATION, AS REQUIRED.

IF INCESTED THIS MATERIAL PRESENTS A SIGNIFICANT ASPIRATION/CHEMICAL PNEUMONITIS HAZARD. AS A RESULT, INDUCTION OF EMESIS IS NOT RECOMMENDED. ADMINISTER AN AQUEOUS SILRRY OF ACTIVATED CHARCOAL FOLICWED BY A CATHARTIC SUCH AS MACRESIM CITRATE OR SORBITOL. ALSO, TREATMENT MAY INVOLVE CARRIUL GASTRIC LAVAGE IF PERFORMED SOON AFTER INGESTION OR IN PATIENTS WHO ARE COMMINGS OR AT RISK OF CONVULSING. PROTECT THE ARRWAY BY USFED ENDOTRACHEAL INTURATION OR BY PLACING THE BODY IN A TRENDELEMBURG AND LEFT DECUBITUS POSITION. OBTAIN A CHEST X-RAY AND LIVER FUNCTION TESTS. MONITOR FOR CARDIAC FUNCTION, RESPIRATORY DISTRESS, AND ARTERIAL BLOOD GASES IN SEVERE EXPOSURE CASES.

---- 5. FIRE FIGHTING MEASURES ---

FLASH POINT: 103 - 106 DEG. F 41 - 43 DEG. C TCC

AUTO-IGNITION POINT: 440 - 540 DEG. F 230 - 283 DEG. C

EXPLOSIVE LIMITS: 0.5 - 0.8% (LOWER) 5 - 6% (UPPER)

NFPA 30 CLASSIFICATION: COMBUSTIBLE LIQUID CLASS II (NFPA 30)

FIRE AND EXPLOSION HAZARDS:
THIS MATERIAL RELEASES VAPORS AT OR APPROACHING ITS FLASH POINT
TEMPERATURE. WHEN MIXING IN AIR IN CERTAIN PROPORTIONS AND EXPOSED TO AN
IGNITION SOURCE, ITS VAPORS CAN CAUSE A FLASH FIRE. VAPORS ARE HEAVIER THAN
AIR AND MAY TRAVEL ALONG THE GROUND OR MAY BE MOVED BY VENTILATION AND
ICRITED BY PILOT LIGHTS, OTHER FLANES, SPARKS, HEATERS, STAKING, ELECTRIC
MOTORS, STATIC DISCHARGE, OR OTHER ICRITION SOURCES AT LOCATIONS DISTIANT
FROM MATERIAL HANDLING FOUNT. NEVER USE WEIDING OR CUTTING TORCH ON OR
NEAR DRUM (EVEN EMPTY) BECAUSE PRODUCT (EVEN JUST RESIDUE) CAN IGNITE
EXPLOSIVELY

EXTINGUISHING MEDIA: USE WATER FOG, CARBON DIOXIDE, DRY CHEMICAL, OR REGULAR FOAM; DO NOT USE A DIRECT STREAM OF WATER. MATERIAL WILL FLOAT AND CAN BE REIGNITED ON THE SURFACE OF THE WATER.

FIRING FIGHTING INSTRUCTIONS:
FLAWABLE MATERIAL, CLEAR FIRE AREA OF NON-EMERGENCY PERSONNEL, DO NOT
ENTER CONFINED FIRE SPACE WITHOUT FULL BUNKER GEAR INCLUDING A POSITIVE
PRESSURE NIOCH - APPROVED SELF-CONTAINING BREATHING APPARATUS. STRINGER
CONTAINERS EXPOSED TO FIRE SOULD BE KEPT COOL WITH WATER SPRAY TO PREVENT
PRESSURE BUILD-UP RESULITING IN CONTAINER RUPTURE. IN ADVANCED FIRES,
MAINTAIN SAFE DISTANCE FROM SEALED CONTAINERS.

— 6. ACCIDENTAL RELEASE MEASURES ---

SMALL SPILLS

APPROPRIATE INERT ABSORBENTS, SUCH AS VERMICULITE, FLOOR ABSORBENT, OR ABSORBENT BOOMS OR PADS, CAN ABSORB SMALL SPILLS, AVOID BREATHING VAPORS AND VENTILATE THE AREA.

LARGE SPILL:
ELIMINATE ALL IGNITION SOURCES (FLARES, FLAMES INCLUDING PILOT LIGHTS, ELECTRICAL SPARKS). PERSONS NOT WEARING PROTECTIVE EQUIPMENT SHOULD BE EXCLUDED FROM AREA OF SPILL UNTIL CLEAN UP HAS BEEN COMPLETED. STOP SPILL AT SOURCE IF SAFE TO DO SO. PREVENT MATERIAL FROM ENTERING CONFINED AREAS, DRAINS, SEMERS, STREAMS OR OTHER BODIES OF WATER. PREVENT FROM SPREADING. IF RUNOFF OCCURS, NOTIFY AUTHORITIES AS REQUIRED. PREVENT RUN-OFF TO SEWERS, STREAMS OR OTHER BODIES OF WATER. IF RUN-OFF OCCURS, NOTIFY PROPER AUTHORITIES AS REQUIRED THAT A SPILL HAS OCCURRED. FUMP OR VACUM TRANSFER SPILLED PRODUCT TO CLEAN CONTAINERS FOR RECOVERY, ABSORB UNRECOVERABLE PRODUCT. TRANSFER CONTAMINATED ABSORBENT, SOIL, AND OTHER MATERIAL TO PROPER NON-LEAKING CONTAINERS FOR DISPOSAL.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING;
KEEP CONTAINERS CLOSED WHEN NOT IN USE. WHEN OPENING COVERS AND CUILET
CAPS ON STORAGE TANKS, USE FACE SHIELD AND GLOVES TO AVOID POSSIBLE INJURY
FROM PRESSURIZED HYDROCARBON VAPORS. DO NOT OVERHEAT, SURFACES THAT ARE
SUFFICIENTLY HOT MAY IGNITE LIQUID MATERIAL. ALL FIVE-GALLON PAILS AND
LARGER CONTAINERS, INCLUDING TANK CARS AND TRUCK CARGO TANKS SHOULD BE
GROUNDED AND/OR BONDED WHEN WATERIAL IS TRANSFERRED TO PREVENT IGNITION OF
VAPORS BY STATIC ELECTRICITY. HYDROCARBON SOLVENIS ARE BASICALLY
NON-CONLUCTORS OF ELECTRICITY BUT CAN BECOME ELECTROSTATICALLY CHARGED
URLING MIXING, FILITERING, OR PUMPING ATHICH FLOW RATES. IF THE CHARGE
REACHES A SUFFICIENTLY HIGH LEVEL, SPARKS CAN FORM THAT MAY IGNITE THE
VAPORS OF FLAMMBLE LIQUIDS.

STORE IN A COOL, DRY, WELL-VENTILATED SAFETY STORAGE CABINET OR ROOM WITH APPROPRIATE LABELS. DO NOT STORE IN CLOSED VEHICLES, KEEP AWAY FROM IGNITION SOURCES AND GROUND ALL EQUIPMENT CONTAINING THIS MATERIAL. CONTAINERS MUST BE ABLE TO WITHSTAND EXPANSION AND/OR PRESSURES EXPECTED FROM WARNING AND COOLING IN STORAGE.

--- 7. HANDLING AND STORAGE

EMPTY CONTAINERS CAN BE DANGEROUS. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSURE SUCH CONTAINERS TO HEAT, FLAMES, SPARKS, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

---- 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION --

EYE PROTECTION

CHEMICAL SPLASH COCCLES ARE ADVISED TO SAFECUARD AGAINST POTENTIAL EYE CONTACT, IRRITATION, OR INJURY. ENSURE THAT AN EMERGENCY EYEMASH STATION AND SAFETY SHOWER ARE LOCATED NEARBY.

SKIN PROTECTION: WEAR RESISTANT GLOVES (CONSULT YOUR SAFETY EQUIPMENT SUPPLIER) TO PREVENT REPEATED OR PROLOXEED SKIN CONTACT, WEAR IMPERVIOUS CLOTHING AND BOOTS.

RESPIRATORY PROTECTIONS:
IF ENGINEERING CONTROLS DO NOT MAINTAIN AIRBORNE CONCENTRATIONS AT A LEVEL THAT IS ADEQUATE TO PROTECT WORKER HEALTH, A NIOSH/MISHA APPROVED AIR SUPPLIED RESPIRATOR MUST BE WORN IN ACCORDANCE WITH THE OSHA RESPIRATORY STANDARD. APPROPRIATE RESPIRATORS MAY INCLUDE AIR-PURIFYING CARTRIDGE RESPIRATORS FOR ORGANIC VAPORS, SUPPLIED AIR RESPIRATORS, OR SELF-CONTAINED BREATHING APPARATUS (IN ENVIRONMENTS WITH UNKNOWN CONCENTRATIONS OR EMERGENCY SITUATIONS).

ENGINEERING CONTROLS:

ENGINEERING CONINCIS:
PROVIDE SUFFICIENT MECHANICAL (GENERAL AND/OR LOCAL EXHAUST) VENTILATION
TO MAINTAIN EXPOSURE BELOW THE PERMISSIBLE EXPOSURE LIMITS AND THRESHOLD
LIMITS VALUES. ALL ELECTRICAL EQUIPMENT SHOULD COMPLY WITH THE NFPA
NATIONAL ELECTRICAL CODE STANDARDS FOR HAZARDOUS LOCATIONS.

OTHER/GENERAL PROTECTION:
WEAR BODY-COVERING CLOTHING TO AVOID PROLONGED OR REPEATED EXPOSURE.
LAUNDER BEFORE REUSE. VARYING APPLICATION METHODS CAN DICTATE THE USE OF
ADDITIONAL PROTECTIVE SAFETY EQUIPMENT SUCH AS IMPERMEABLE APRONS, ETC.

OCCUPATIONAL EXPOSURE GUIDELINES:

SUBSTANCE: PETROLEUM HYDROCARBON DISTILLATES OSHA PEL; 2900 M3/M3 OR 500 PPM (8-HOUR) ACGIH TLV: 100 PPM (8-HOUR TWA)

SUBSTANCE: 1,2,4 - TRIMETHYLBENZENE ACGIH TLV: 25 PPM (8 HOUR TWA)

- 9. PHYSICAL AND CHEMICAL PROPERTIES --

PHYSICAL STATE: LIQUID

APPEARANCE: CLEAR WITH BLUE TINT

ODOR: HYDROCARBON SOLVENT ODOR

MELTING POINT: -85 - -13 DEG. F -65 - -25 DEG. C

BOILING POINT: 300 - 419 DEG. F 149 - 215 DEG. C

VAPOR PRESSURE: <1.0 MM HG @ 20 DEG, C. 68 DEG, F

REID VAPOR PRESSURE: <0.1 PSIA (VP @ 38 DEG. C, 100 DEG. F)

VAPOR DENSITY (AIR=1): >1.0

SPECIFIC GRAVITY: 0.78 - 0.79

PERCENT VOLATILES: 100%

PERCENT VOC: 100%

LBS/GAL VOC: 6.5 - 6.7

SOLUBILITY: NEGLIGIBLE

PHYSICAL PROPERTIES GIVEN ARE TYPICAL FOR THIS PRODUCT. EXACT DATA VARIES DEPENDING UPON MANUFACTURER.

- 10. STABILITY AND REACTIVITY -

STABILITY: STABLE

INCOMPATIBLE MATERIALS: STRONG OXIDIZERS.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

HAZARDOUS DECOMPOSITION PRODUCTS:
THERNAL DECOMPOSITION MAY RESULT IN AN AIRBORNE MIXTURE OF SOLIDS (SYDKE
AND SOOT), LIQUIDS (MIST), AND GASES INCLUDING A COMPLEX MIXTURE OF FUMES,
CARBON MONOXIDE, CARBON DIOXIDE, AND OTHER ORGANIC HYDROCARBONS.

CONDITIONS TO AVOID: AVOID HEAT, OPEN FLAMES, STRONG ACIDS AND STRONG OXIDIZERS.

11. TOXICOLOGICAL INFORMATION -

ACUTE STUDIES: ACUTE SIDIES: 1,2,4 TRIMETHYLBENZENE (CAS # 95-63-6): ORAL (LD50): 6 G/KG (RAT) INHALATION (LC50): 18 G/KG (RAT, 4 HOURS) DERMAL (LD50): NOT AVAILABLE

PETROLEUM DISTILLATE (CAS# 8052-41-3):
ORAL (LD50): >5 G/KG (RAT)
INHALATION (LC50): >5.5 G/KG (RAT, 4 HOURS)
DERMAL (LD50): >3 G/KG MG/KG (RABBIT)

MISCELLANEOUS TOXICOLOGICAL INFORMATION:
BASED UPON LABORATORY ANIMAL STUDIES, REPEATED DIRECT APPLICATIONS OF
STODDARD SOLVENT TO THE SKIN CAN PRODUCE DEFATTING DEFRATITIS, KIDNEY
STODDARD SOLVENT TO THE SKIN CAN PRODUCE DEFATTING DEFRATITIS, KIDNEY
DAMAGE, AND CHARGES IN HECOD-FORMING CAPACITY. RATS DEVELOPED KIDNEY DAVAGE
AND BYALLIATED BLOOD UREA NITROGEN LEVELS WHEN EXPOSED TO A CONCENTRATION OF
1.9 Mg/L FOR 65 DAYS. THE KIDNEY DAVAGES IN RATS APPEARED TO INVOLVE BOTH
THE TUBULES AND GLOTERULI, BUT ONLY OCCURRED IN MALES; SO THESE EFFECTS MAY
NOT BE PERTINENT TO HUMANS. MALE RATS EXPOSED TO AIRBORNE CONCENTRATIONS OF
100, 150, AND 1.500 PPM FOR 6 HOURS PER DAY, 5 DAYS A WEEK, FOR 90 DAYS DID
NOT DEVELOP ANY FUNCTIONAL OR HISTOLOGICAL SIGNS OF NEUROTOXICITY. STODDARD
SOLVENT AND MINERAL SPIRITS WERE NOT MITAGENIC IN THE SALMINELLA/MICROSOME
(AMES) ASSAY, THE IN-VITRO MOUSE BONE MARROW CELL CHRONGSOME ABERRATIONS
ASSAY, AND THE IN-VITRO RATE SISTER CHROMATID EXCHANGES ASSAY.

TRIMBIHYLBENZENE ARE PRIMARY SKIN IRRITANIS AND MAY CAUSE ASTHMATIC BRONCHITIS AND/OR ANEMIA. BASED UPON ANIMAL REPRODUCTIVE/DEVELOPMENT STUDIES, TRIMETHYLBENZENE MAY ALSO CAUSE FETAL TOXICITY.

- 12. ECOLOGICAL INFORMATION -

RELFASES TO WATER AND STREAMS MAY CAUSE FOULING OF WATER. MAY BE TOXIC TO AQUATIC ANIMALS.

- 13. DISPOSAL CONSIDERATIONS -

MATERIAL: MAXIMIZE MATERIAL RECOVERY FOR REUSE OR RECYCLING. THIS PRODUCT INCLUDES A HAZAROUS MASTE CHARACTERISTIC OF IGNITABILITY (FLASH POINT UNDER 140 F), UNDER RCRA CRITERIA OF 40 CFR 261.

CONTAINER:
DRAIN CONTAINER THOROCOCHLY. AFTER DRAINING, VENT IN A SAFE PLACE AWAY FROM
SPARKS AND FIRE. DO NOT FUNCTURE, CUT, OR WELD UNCLEAN DRUMS. SEND DRUM TO
METAL OR DRUM RECLAIMER.

— 14. TRANSPORT INFORMATION ——

DOT NON-BULK PACKAGE (<119G CONTAINER): SHIPPING NAME: MINERAL SPIRITS (PETROLEUM NAPHIHA) (NOT DOT REGULATED)

SOLVENT MATERIAL IS SUBJECT TO DOT EXCEPTION 49 CFR 173.150 (F)(2) FOR DOMESTIC SHIPMENT ONLY AND IN NON-BULK PACKAGING LESS THAN 119 GALLONS, UNLESS MATERIAL BECOMES A HAZARDOUS WASTE.

DOT BULK PACKAGE (>119G CONTAINER):
SHIPPING NAME: COMBUSTIBLE LIQUID, N.O.S. (PETROLEUM NAPHTHA)
UN/NA #: NA 1993
HAZARD CLASS: COMBUSTIBLE LIQUID
PACKING GROUP: III
PLACARDS: CLASS 3, NA 1993

PACKAGING EXCEPTIONS: 49 CFR 173,152 (F)(3)

PACKAGING REQUIREMENTS: 49 CFR 173.242

NORTH AMERICA EMERGENCY RESPONSE GUIDEBOOK GUIDE NO: 128

THIS MATERIAL IS NOT CLASSIFIED AS HAZARDOUS UNDER LATA AND IMEGREGULATIONS.

-- 15. REGULATORY INFORMATION

US FEDERAL REGULATIONS:

THIS MATERIAL IS LISTED IN THE U.S. TOXIC SUBSTANCE CONTROL ACT CHEMICAL SUBSTANCE INVENTORY 8052-41-3.

CWA:
THIS MATERIAL IS CLASSIFIED AS AN OIL UNDER SECTION 311 OF THE CLEAN WATER
ACT AND THE OIL POLLUTION CONTROL ACT OF 1990. SPILLS AND DISCHARGES THAT
CAUSE A SHEEN ON SURFACE WATERS OR IN WATERWAYS AND SEAWAYS THAT LEAD TO
SURFACE WATERS MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER AT
800-424-8802

CERCIA: THE FOLLOWING MATERIALS HAVE REPORTABLE QUANTITIES (RQ) LISTED UNDER THE COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION, AND LIABILITY ACT. CFR $302.4\,(\text{A})$:

RQ (LBS)

NONE

CERCLA RQ 40 CFR 302.4 (B): MATERIALS WITHOUT A "LISTED" RQ MAY BE REPORTABLE AS AN "UNLISTED HAZARDOUS SUBSTANCE". SEE 40 CFR 302.5 (B).

SARA 302: THE FOLLOWING COMPONENTS ARE LISTED AS EXTREMELY HAZARDOUS SUBSTANCES UNDER THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT

COMPONENTS

RO (LBS)

NONE

SECTION 302 HAZARD CLASS: ACUTE HEALITH HAZARD CHRONIC HEALITH HAZARD FIRE HAZARD

SARA 313 NOTIFICATION AND COMPONENTS:
THIS PRODUCT CONTAINS THE FOLLOWING CONSTITUENTS IN CONCENTRATIONS AT OR
ABOVE THE MINIMUS LEVELS AND WHICH ARE LISTED AS TOXIC CHEMICALS IN 40 CFR
PART 372 PURSUANT TO THE REQUIREMENTS OF SECTION 313 OF THE SUPERFUND
AMERICANIS AND REAUTHORIZATION ACT OF 1986 (SARA). THE ACT ALSO REQUIRES
THAT THIS NOTICE ACCUPANY THE MSDS IN ALL REDISTRIBUTION AND MAY NOT BE
DETACHED OR CMITTED

SECTION 313 COMPONENT(S)

CAS NUMBER

1,2,4 - TRIMETHYLBENZENE

65-63-6

--- 16. OTHER INFORMATION -

REFERENCE DOCUMENTS: INFORMATION PROVIDED IN THIS MATERIAL SAFETY DATA SHEET IS SUPPLIED BY THE MANUFACTURERS OF THE PRODUCTS SUPPLIED TO HERITAGE CRYSTAL CLEAN, L.L.C.

ALTHOUGH REASONABLE CARE HAS BEEN TAKEN IN THE PREPARATION OF THIS DOCUMENT WE EXTEND NO WARRANTIES AND MAKE NO REPRESENTATIONS AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION CONTAINED THEREIN, AND ASSUME NO RESPONSIBILITY REPARDLESS OF THE SUITABILITY OF THIS INFORMATION FOR THE USER'S INTENDED DURPOSES OR THE CONSEQUENCES OF ITS USE. EACH INDIVIDUAL SHOULD MAKE A DETERMINATION AS TO THE SUITABILITY OF THE INFORMATION OF HIS OR HER PARTICULAR PURPOSE(S).

HERITAGE-CRYSTAL CLEAN, L.L.C.

ORDER: 1101528205

ITEM: 4RP91 - Meter Liquid Flow

HAZMAT: 4RP91

HAZARD MATERIAL WARNING SHEET (HAZMAT)

When shipment is complete, retain for daily Hazmat audit

GRAINGER SHIPPING INFORMATION

STOCK #

MSDS #

: B0417

FREIGHT CODE

: 0221

DOT PROPER SHIP NAME

: COMBUSTIBLE LIQUID, (PETROLEUM DISTILLATE MIXTURE), NOT REGULATED BY THE DOT AS A HAZARDOUS MATERIAL

PER 49CFR 173.150(F)(2), FLASHPOINT 41 DGS C, 105

DGS F

FLASHPOINT

: 41 DEGREES CELSIUS, 106 DEGREES FAHRENHEIT

UPS RESTRICTIONS

HAZARDOUS CLASS NUMBER :

UN ID #

PACKING GROUP

SHIPPING LABEL

LIMITED QUANTITY

CARTON INSTRUCTIONS

: CAN REPACK IN GRAINGER S CARTON

DOT/UPS EXEMPTION NO.

COMMENTS

: HAZARDOUS MATERIAL. DO NOT SHIP AIR!! ONLY ARROW UP

LABEL (2S594) REQUIRED.

SHIPPING-PAPERS

PLACARD OFFERED ? YES () NO ()

PLEASE MARK ONE
