



Chemical Name: Zoom-Spout

Manufacturer: NRP

Container size: 4oz.

Location: VLA

Disposal: Place empty container in trash.

MATERIAL SAFETY DATA SHEET

PRODUCT IDENTIFICATION

PRODUCT: **ZOOM SPOUT OILER** HFWA CODES: **H F R**
 PRODUCT CODE: **DO1** 1 1 0
MANUFACTURER: PHILLIPS 66 COMPANY, LUBRICANTS DIVISION
ADDRESS: P.O. BOX 25376 SANTA ANA, CA 92799-5376
INFORMATION: 800-762-0942 **EMERGENCY:** CHEMTREC 800-424-9300
DATE: 5/2003 **PREPARER:** R. Madariaga
DISTRIBUTOR: NATIONAL REFRIGERATION PRODUCTS
 2900 SAMUEL DRIVE · BENSLEM, PA 19020-7306
 1-800-352-6951

COMPOSITION, INFORMATION ON INGREDIENTS

NO HAZARDOUS COMPONENTS IDENTIFIED PER 29 CFR 1910.1200.

OTHER COMPONENTS:	CAS #	EXPOSURE GUIDELINE:	% VOLUME:
LUBRICANT BASE OIL (PETROLEUM)	VARIOUS	(SEE: OIL MIST, IF GENERATED)	>95%
ADDITIVES	PROPRIETARY	NOT ESTABLISHED	<5%

REFERENCE:

EXPOSURE GUIDELINES:

	CAS NO.	ACGIH TLV-TWA	OSHA PEL-TWA	NIOSH IDLH
OIL MIST, IF GENERATED	NONE	5mg/m3 10mg/m3 (STEL)	5mg/m3	2500 mg/m3

ALL COMPONENTS ARE LISTED ON THE TSCA INVENTORY.

THE BASE OIL FOR THIS PRODUCT CAN BE A MIXTURE OF ANY OF THE FOLLOWING HIGHLY REFINED PETROLEUM STREAMS:

CAS #s, 64741-88-4, 64741-89-5, 64741-96-4, 64741-97-5, 64742-01-4, 64742-52-5, 64742-53-6, 64742-54-7, 64742-55-8, 64742-56-9, 64742-57-0, 64742-62-7, 64742-63-8, 64742-65-0, 72623-85-9, 72623-86-0, 76623-87-1

NOTE: STATE, LOCAL OR OTHER AGENCIES OR ADVISORY GROUPS MAY HAVE ESTABLISHED MORE STRINGENT LIMITS. CONSULT AN INDUSTRIAL HYGIENIST OR SIMILAR PROFESSIONAL, OR YOUR LOCAL AGENCIES, FOR FURTHER INFORMATION.

HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

HEALTH HAZARDS/PRECAUTIONARY MEASURES: AVOID CONTACT WITH EYES, SKIN AND CLOTHING. WASH THOROUGHLY AFTER HANDLING.

PHYSICAL HAZARDS/PRECAUTIONARY MEASURES: KEEP AWAY FROM ALL SOURCES OF IGNITION.

APPEARANCE: CLEAR YELLOW LIQUID **ODOR:** CHARACTERISTIC PETROLEUM

POTENTIAL HEALTH EFFECTS:

EYE: CONTACT MAY CAUSE MILD EYE IRRITATION INCLUDING STINGING, WATERING, AND REDNESS.

SKIN: CONTACT MAY CAUSE MILD SKIN IRRITATION INCLUDING REDNESS AND A BURNING SENSATION. PROLONGED OR REPEATED CONTACT CAN WORSEN IRRITATION BY CAUSING DRYING AND CRACKING OF THE SKIN LEADING TO DERMATITIS (INFLAMMATION). NO HARMFUL EFFECTS FROM SKIN ABSORPTION ARE EXPECTED.

INHALATION: NO INFORMATION AVAILABLE. STUDIES BY OTHER EXPOSURE ROUTES SUGGEST A LOW DEGREE OF TOXICITY BY INHALATION.

INGESTION: NO HARMFUL EFFECTS EXPECTED FROM INGESTION.

SIGNS AND SYMPTOMS: EFFECTS OF OVEREXPOSURE MAY INCLUDE IRRITATION OF THE NOSE AND THROAT, IRRITATION OF THE DIGESTIVE TRACT, NAUSEA AND DIARRHEA.

CANCER: INADEQUATE EVIDENCE AVAILABLE TO EVALUATE THE CANCER HAZARD OF THIS MATERIAL. SEE SECTION 11 FOR CARCINOGENICITY INFORMATION OF INDIVIDUAL COMPONENTS, IF ANY.

TARGET ORGANS: NO DATA AVAILABLE FOR THIS MATERIAL.

DEVELOPMENTAL: NO DATA AVAILABLE FOR THIS MATERIAL.

PRE-EXISTING MEDICAL CONDITIONS: CONDITIONS AGGRAVATED BY EXPOSURE MAY INCLUDE SKIN DISORDERS.

FIRST AID MEASURES

INHALATION: IF RESPIRATORY SYMPTOMS DEVELOP MOVE VICTIM AWAY FROM SOURCE OF EXPOSURE AND INTO FRESH AIR. IF SYMPTOMS PERSIST, SEEK MEDICAL ATTENTION. IF VICTIM IS NOT BREATHING, CLEAR AIRWAY AND IMMEDIATELY BEGIN ARTIFICIAL RESPIRATION. IF BREATHING DIFFICULTIES DEVELOP, OXYGEN SHOULD BE ADMINISTERED BY QUALIFIED PERSONNEL. SEEK IMMEDIATE MEDICAL ATTENTION.

INGESTION: FIRST AID IS NOT NORMALLY REQUIRED; HOWEVER, IF SWALLOWED AND SYMPTOMS DEVELOP, SEEK MEDICAL ATTENTION.

SKIN: WIPE MATERIAL FROM SKIN AND REMOVE CONTAMINATED SHOES AND CLOTHING. CLEANSE AFFECTED AREAS THOROUGHLY BY WASHING WITH MILD SOAP AND WATER AND, IF NECESSARY, A WATERLESS SKIN CLEANSER. IF IRRITATION OR REDNESS DEVELOPS AND PERSISTS, SEEK MEDICAL ATTENTION.

EYES: IF IRRITATION OR REDNESS DEVELOPS, MOVE VICTIM AWAY FROM EXPOSURE AND INTO FRESH AIR. FLUSH EYES WITH CLEAN WATER. IF SYMPTOMS PERSIST, SEEK MEDICAL ATTENTION.

NOTE TO PHYSICIANS: HIGH-PRESSURE HYDROCARBON INJECTION INJURIES MAY PRODUCE SUBSTANTIAL NECROSIS OF UNDERLYING TISSUE DESPITE AN INNOCUOUS APPEARING EXTERNAL WOUND. OFTEN THESE INJURIES REQUIRE EXTENSIVE EMERGENCY SURGICAL DEBRIDEMENT AND ALL INJURIES SHOULD BE EVALUATED BY A SPECIALIST IN ORDER TO ASSESS THE EXTENT OF INJURY.

ACUTE ASPIRATIONS OF LARGE AMOUNTS OF OIL-LADEN MATERIAL MAY PRODUCE A SERIOUS ASPIRATION PNEUMONIA. PATIENTS WHO ASPIRATE THESE OILS SHOULD BE FOLLOWED FOR THE DEVELOPMENT OF LONG-TERM SEQUELAE. INHALATION EXPOSURE TO OIL MISTS BELOW CURRENT WORKPLACE EXPOSURE LIMITS IS UNLIKELY TO CAUSE PULMONARY ABNORMALITIES.

FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

FLASHPOINT: >365 DEG. F / >185 DEG. C (COC)

OSHA FLAMMABILITY CLASS: NA

LEL/UEL; %: NO DATA

AUTOIGNITION TEMPERATURE: NO DATA

UNUSUAL FIRE & EXPLOSION HAZARDS: THIS MATERIAL MAY BURN, BUT WILL NOT IGNITE READILY. VAPORS ARE HEAVIER THAN AIR AND CAN ACCUMULATE IN LOW AREAS. IF CONTAINER IS NOT PROPERLY COOLED, IT CAN RUPTURE IN THE HEAT OF A FIRE.

EXTINGUISHING MEDIA: DRY CHEMICAL, CARBON DIOXIDE, FOAM, OR WATER SPRAY IS RECOMMENDED. WATER OR FOAM MAY CAUSE FROTHING OF MATERIAL HEATED ABOVE 212 DEG. F. CARBON DIOXIDE CAN DISPLACE OXYGEN. USE CAUTION WHEN APPLYING CARBON DIOXIDE IN CONFINED SPACES.

FIRE FIGHTING INSTRUCTIONS: FOR FIRES BEYOND THE INCIPIENT STAGE, EMERGENCY RESPONDERS IN THE IMMEDIATE HAZARD AREA SHOULD WEAR BUNKER GEAR. WHEN THE POTENTIAL CHEMICAL HAZARD IS UNKNOWN, IN ENCLOSED OR CONFINED SPACES, OR WHEN EXPLICITLY REQUIRED BY DOT, A SELF CONTAINED BREATHING APPARATUS SHOULD BE WORN. IN ADDITION, WEAR OTHER APPROPRIATE PROTECTIVE EQUIPMENT AS CONDITIONS WARRANT (SEE EXPOSURE CONTROLS/PERSONNEL PROTECTION).

ISOLATE IMMEDIATE HAZARD AREA, KEEP UNAUTHORIZED PERSONNEL OUT. STOP SPILL/RELEASE IF IT CAN BE DONE WITH MINIMAL RISK. MOVE UNDAMAGED CONTAINERS FROM IMMEDIATE HAZARD AREA IF IT CAN BE DONE WITH MINIMAL RISK.

WATER SPRAY MAY BE USEFUL IN MINIMIZING OR DISPERSING VAPORS AND TO PROTECT PERSONNEL. COOL EQUIPMENT EXPOSED TO FIRE WITH WATER, IF IT CAN BE DONE WITH MINIMAL RISK. AVOID SPREADING BURNING LIQUID WITH WATER USED FOR COOLING PURPOSES.

ACCIDENTIAL RELEASE MEASURES

THIS MATERIAL MAY BURN, BUT WILL NOT IGNITE READILY. KEEP ALL SOURCES OF IGNITION AWAY FROM SPILL/RELEASE. STAY UPWIND AND AWAY FROM SPILL/RELEASE. NOTIFY PERSONS DOWN WIND OF THE SPILL/RELEASE, ISOLATE IMMEDIATE HAZARD AREA AND KEEP UNAUTHORIZED PERSONNEL OUT. STOP SPILL/RELEASE IF IT CAN BE DONE WITH MINIMAL RISK. WEAR APPROPRIATE PROTECTIVE EQUIPMENT INCLUDING RESPIRATORY PROTECTION AS CONDITIONS WARRANT (SEE EXPOSURE CONTROLS/PERSONAL PROTECTION SECTION)

PREVENT SPILLED MATERIAL FROM ENTERING SEWERS, STORM DRAINS, OTHER UNAUTHORIZED DRAINAGE SYSTEMS, AND NATURAL WATERWAYS. DIKE FAR AHEAD OF SPILL FOR LATER RECOVERY OR DISPOSAL. SPILLED MATERIAL MAY BE ABSORBED INTO AN APPROPRIATE ABSORBENT MATERIAL.

NOTIFY FIRE AUTHORITIES AND APPROPRIATE FEDERAL, STATE, AND LOCAL AGENCIES. IMMEDIATE CLEANUP OF ANY SPILL IS RECOMMENDED. IF SPILL OF ANY AMOUNT IS MADE INTO OR UPON NAVIGABLE WATER, THE CONTIGUOUS ZONE, OR ADJOINING SHORELINES, NOTIFY THE NATIONAL RESPONSE CENTER (800-424-8802).

HANDLING AND STORAGE

HANDLING: DO NOT ENTER CONFINED SPACES SUCH AS TANKS OR PITS WITHOUT FOLLOWING PROPER ENTRY PROCEDURES. THE USE OF APPROPRIATE RESPIRATORY PROTECTION IS ADVISED WHEN CONCENTRATIONS EXCEED ANY ESTABLISHED EXPOSURE LIMITS.

DO NOT WEAR CONTAMINATED CLOTHING OR SHOES. USE GOOD PERSONAL HYGIENE PRACTICES.

DO NOT USE THIS PRODUCT OR OTHER HYDROCARBON-BASED LUBRICANTS IN NON-DIAPHRAGM COMPRESSORS THAT PRODUCE "BREATHING AIR" UNLESS THE OUTLET AIR IS MONITORED CONTINUOUSLY FOR CARBON MONOXIDE. THESE LUBRICANTS CAN PRODUCE CARBON MONOXIDE WHEN SUBJECTED TO HIGH TEMPERATURES.

HIGH PRESSURE INJECTION OF HYDROCARBON FUELS, HYDRAULIC OILS OR GREASES UNDER THE SKIN MAY HAVE SERIOUS CONSEQUENCES EVEN THOUGH NO SYMPTOMS OR INJURY MAY BE APPARENT. THIS CAN HAPPEN ACCIDENTALLY WHEN USING HIGH PRESSURE EQUIPMENT SUCH AS HIGH PRESSURE GREASE GUNS, FUEL INJECTION APPARATUS OR FROM PINHOLE LEAKS IN LUBING OF HIGH PRESSURE HYDRAULIC OIL EQUIPMENT.

"EMPTY" CONTAINERS RETAIN RESIDUE AND MAY BE DANGEROUS. DO NOT PRESSURIZE, CUT WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. "EMPTY" DRUMS SHOULD BE COMPLETELY DRAINED, PROPERLY BUNGED, AND PROMPTLY SHIPPED TO THE SUPPLIER OR A DRUM RECONDITIONER.

BEFORE WORKING ON OR IN TANKS WHICH CONTAIN OR HAVE CONTAINED THIS MATERIAL, REFER TO OSHA REGULATIONS, ANSI Z49.1 AND OTHER REFERENCES PERTAINING TO CLEANING, REPAIRING, WELDING, OR OTHER CONTEMPLATED OPERATIONS.

STORAGE: KEEP CONTAINERS TIGHTLY CLOSED. USE AND STORE THIS MATERIAL IN COOL, DRY, WELL-VENTILATED AREAS AWAY FROM HEAT AND ALL SOURCES OF IGNITION. STORE ONLY IN APPROVED CONTAINERS. KEEP AWAY FROM ANY INCOMPATIBLE MATERIAL. PROTECT CONTAINERS AGAINST PHYSICAL DAMAGE.

EXPOSURE CONTROLS, PERSONAL PROTECTION

ENGINEERING CONTROLS: IF CURRENT VENTILATION PRACTICES ARE NOT ADEQUATE TO MAINTAIN AIRBORNE CONCENTRATIONS BELOW THE ESTABLISHED EXPOSURE LIMITS, ADDITIONAL VENTILATION OR EXHAUST SYSTEMS MAY BE REQUIRED.

PERSONAL PROTECTION EQUIPMENT:

RESPIRATORY: A NIOSH CERTIFIED AIR PURIFYING RESPIRATOR WITH A TYPE 95 (R OR P) PARTICULATE FILTER MAY BE USED UNDER CONDITIONS WHERE AIRBORNE CONCENTRATIONS ARE EXPECTED TO EXCEED EXPOSURE LIMITS.

PROTECTION PROVIDED BY AIR PURIFYING RESPIRATORS IS LIMITED (SEE MANUFACTURER'S RESPIRATOR SELECTION GUIDE). USE A POSITIVE PRESSURE AIR SUPPLIED RESPIRATOR IF THERE IS POTENTIAL FOR UNCONTROLLED RELEASE, EXPOSURE LEVELS ARE NOT KNOWN, OR ANY OTHER CIRCUMSTANCES WHERE AIR PURIFYING RESPIRATORS MAY NOT PROVIDE ADEQUATE PROTECTION. A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA'S 29 CFR 1910.134 AND ANSI 88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE.

SKIN: THE USE OF GLOVES IMPERVIOUS TO THE SPECIFIC MATERIAL HANDLED IS ADVISED TO PREVENT SKIN CONTACT AND POSSIBLE IRRITATION (SEE MANUFACTURERS LITERATURE FOR INFORMATION ON PERMEABILITY).

EYE/FACE: APPROVED EYE PROTECTION TO SAFEGUARD AGAINST POTENTIAL EYE CONTACT, IRRITATION, OR INJURY IS RECOMMENDED. DEPENDING ON CONDITIONS OF USE, A FACE SHIELD MAY BE NECESSARY.

OTHER PROTECTIVE EQUIPMENT: A SOURCE OF CLEAN WATER SHOULD BE AVAILABLE IN THE WORK AREA FOR FLUSHING EYES AND SKIN. IMPERVIOUS CLOTHING SHOULD BE WORN AS NEEDED.

PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	CLEAR YELLOW
PHYSICAL STATE:	LIQUID
ODOR:	CHARACTERISTIC PETROLEUM
Ph:	NOT APPLICABLE
VAPOR PRESSURE (mm Hg):	<1
VAPOR DENSITY (AIR=1):	>1
BOILING POINT/RANGE:	>555 DEG. F / >291 DEG. C
FREEZING / MELTING POINT:	NO DATA
WATER SOLUBILITY:	NEGLIGIBLE
SPECIFIC GRAVITY:	0.86-0.88
PERCENT VOLATILE:	NEGLIGIBLE
EVAPORATION RATE (nBuAc=1):	<1
VISCOSITY:	30.3-32.2 cST @ 40 DEG. C
BULK DENSITY:	7.33 LBS./GAL
FLASH POINT:	>365 DEG. F / >185 DEG. C (COC)
FLAMMABLE / EXPLOSION LIMITS (%):	NO DATA

STABILITY AND REACTIVITY

STABILITY: STABLE UNDER NORMAL AMBIENT AND ANTICIPATED STORAGE AND HANDLING CONDITIONS OF TEMPERATURE AND PRESSURE.

CONDITIONS TO AVOID: EXTENDED EXPOSURE TO HIGH TEMPERATURES CAN CAUSE DECOMPOSITION.

MATERIALS TO AVOID: AVOID CONTACT WITH STRONG OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION PRODUCTS: COMBUSTION CAN YIELD ALDEHYDES AND CARBON, NITROGEN AND SULFUR OXIDES. THERMAL DECOMPOSITION MAY PRODUCE HYDROGEN SULFIDE AND OTHER SULFUR-CONTAINING GASES AT TEMPERATURES GREATER THAN 113 DEG. F. METHACRYLATE MONOMERS MAY ALSO BE FORMED.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

TOXICOLOGICAL INFORMATION

LUBRICANT BASE OIL (PETROLEUM) (CAS# VARIOUS)

CARCINOGENICITY: THE PETROLEUM BASE OILS CONTAINED IN THIS PRODUCT HAVE BEEN HIGHLY REFINED BY A VARIETY OF PROCESSES INCLUDING SOLVENT EXTRACTION, HYDROTREATING, AND DEWAXING TO REMOVE AROMATICS AND IMPROVE PERFORMANCE

CHARACTERISTICS. NONE OF THE OILS USED ARE LISTED AS A CARCINOGEN BY NTP, IARC, OR OSHA.

ECOLOGICAL INFORMATION

THERE IS NO ECOLOGICAL DATA AVAILABLE ON THIS PRODUCT.

DISPOSAL CONSIDERATIONS

THIS MATERIAL UNDER MOST INTENDED USES WOULD BECOME USED OIL DUE TO CONTAMINATION BY PHYSICAL OR CHEMICAL IMPURITIES. RECYCLE ALL USED OIL. WHILE BEING RECYCLED, USED OIL IS REGULATED BY 40 CFR 279. USE RESULTING IN CHEMICAL OR PHYSICAL CHANGE OR CONTAMINATION MAY ALSO SUBJECT IT TO REGULATION AS HAZARDOUS WASTE. UNDER FEDERAL REGULATIONS, USED OIL IS A SOLID WASTE MANAGED UNDER 40 CFR 279. HOWEVER, IN CALIFORNIA, USED OIL IS MANAGED AS HAZARDOUS WASTE UNTIL TESTED TO SHOW IT IS NOT HAZARDOUS. CONSULT STATE AND LOCAL REGULATIONS REGARDING THE PROPER HANDLING OF USED OIL. IN THE CASE OF USED OIL, THE INTENT TO DISCARD IT MAY CAUSE THE USED OIL TO BE REGULATED AS HAZARDOUS WASTE.

TRANSPORT INFORMATION

U.S. DOT: NOT CLASSIFIED AS HAZARDOUS.

REGULATORY INFORMATION

EPA SARA 311/312 (TITLE III HAZARD CATEGORIES):

ACUTE HEALTH:	NO
CHRONIC HEALTH:	NO
FIRE HAZARD:	NO
PRESSURE HAZARD:	NO
REACTIVE HAZARD:	NO

SARA 313 AND 40 CFR 372: THIS MATERIAL CONTAINS THE FOLLOWING CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SARA 313 AND 40 CFR 372: --NONE--

CALIFORNIA PROPOSITION 65: WARNING! THIS MATERIAL CONTAINS THE FOLLOWING CHEMICALS WHICH ARE KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM, AND ARE SUBJECT TO THE REQUIREMENTS OF CALIFORNIA PROPOSITION 65 (CA HEALTH & SAFETY CODE SECTION 25249.5): --NONE KNOWN--

CARCINOGEN IDENTIFICATION: THIS MATERIAL HAS NOT BEEN IDENTIFIED AS A CARCINOGEN BY NTP, IARC, OR OSHA.

EPA (CERCLA) REPORTABLE QUANTITY: --NONE--

DISCLAIMER

INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN 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.