

MATERIAL SAFETY DATA SHEET - B2518

Associated Grainger Items
1AAJ7, 1AAJ8, 5MF10

TERRESOLVE (TM)

ENVIROLOGIC PRODUCTS

MATERIAL SAFETY DATA SHEET

TANAKA PERFECT MIX TWO STROKE ENGINE OIL

-----SECTION 1 CHEMICAL PRODUCT AND COMPANY INFORMATION -----

TERRESOLVE TECHNOLOGIES LTD.
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PRODUCT TRADE NAME: TANAKA PERFECT MIX TWO STROKE ENGINE OIL

CAS NO: NOT APPLICABLE FOR MIXTURES

SYNONYMS: NONE

GENERIC/CHEMICAL NAME: MIXTURE

PRODUCT TYPE: TWO CYCLE OIL

PREPARATION/REVISION DATE: 1/01/2008

TRANSPORTATION EMERGENCY PH NO: 1-800-661-3558

-----SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS -----

NO REPORTABLE HAZARDOUS SUBSTANCES.

-----SECTION 3 HAZARDS IDENTIFICATION -----

PRINCIPAL HAZARDS: SEE SECTION 11 FOR COMPLETE HEALTH HAZARD INFORMATION.

HEALTH	1
FIRE	1
REACTIVITY	0

-----SECTION 4 FIRST AID MEASURES -----

EYES:

FLUSH EYES WITH CLEAN, LOW-PRESSURE WATER FOR AT LEAST 15 MINUTES, OCCASIONALLY LIFTING THE EYELIDS. IF PAIN OR REDNESS PERSISTS AFTER FLUSHING, OBTAIN MEDICAL ATTENTION.

SKIN:

REMOVE BY WIPING, THEN WASH SKIN THOROUGHLY WITH PLENTY OF SOAP AND WATER.

REMOVE CONTAMINATED CLOTHING AND THOROUGHLY CLEAN BEFORE REUSE.

DISCARD

CONTAMINATED LEATHER GLOVES AND SHOES.

INHALATION:

VAPORIZATION IS NOT EXPECTED AT AMBIENT TEMPERATURES AND THIS MATERIAL IS

NOT EXPECTED TO BE AN INHALATION PROBLEM UNDER ANTICIPATED CONDITIONS OF

USE. IN CASE OF OVEREXPOSURE, MOVE PERSON TO FRESH AIR.

INGESTION:

DO NOT INDUCE VOMITING. IF MORE THAN A HALF-CUP FULL OF THIS MATERIAL IS

SWALLOWED, GIVE QUANTITIES OF WATER, DO NOT INDUCE VOMITING, AND OBTAIN

MEDICAL ATTENTION.

ADDITIONAL:

NOTE TO PHYSICIAN:

TREATMENT BASED ON JUDGMENT OF THE PHYSICIAN RESPONSE TO REACTIONS OF THE

PATIENT. MAY AGGRAVATE PRE-EXISTING RESPIRATORY CONDITIONS. TREAT SYMPTOMATICALLY.

-----SECTION 5 FIREFIGHTING MEASURES -----

FLASH POINT (TYPICAL): 122 DEG. C (252 DEG. F)

METHOD: COC D92

UPPER FLAMMABLE LIMIT: NOT DETERMINED

LOWER FLAMMABLE LIMIT: NOT DETERMINED

AUTOIGNITION TEMPERATURE: NOT DETERMINED

HAZARDOUS COMBUSTION PRODUCTS:

BURNING OR EXCESSIVE HEATING MAY PRODUCE CARBON MONOXIDE AND OTHER HARMFUL

GASES/VAPORS INCLUDING OXIDES AND/OR OTHER COMPOUNDS OF ZINC, SULFUR, AND

PHOSPHOROUS ALSO HYDROGEN SULFIDE.

EXTINGUISHING MEDIA:

DRY CHEMICAL AND CARBON DIOXIDE. FOAM AND WATER FOG ARE EFFECTIVE, BUT MAY

CAUSE FROTHING.

FIRE FIGHTING INSTRUCTIONS:

OSHA/NFPA CLASS IIIB COMBUSTIBLE LIQUID. FOR FIRES INVOLVING THIS MATERIAL,
DO NOT ENTER ANY ENCLOSED OR CONFINED FIRE SPACE WITHOUT PROPER PROTECTIVE EQUIPMENT. THIS MAY INCLUDE SELF-CONTAINED BREATHING APPARATUS TO PROTECT AGAINST THE HAZARDOUS EFFECTS OF COMBUSTION PRODUCTS AND OXYGEN DEFICIENCIES. IF FIREFIGHTERS CANNOT WORK UPWIND TO THE FIRE, RESPIRATORY PROTECTIVE EQUIPMENT MUST BE WORN. COOL TANKS AND CONTAINERS EXPOSED TO FIRE WITH WATER.

-----SECTION 6 ACCIDENTAL RELEASE MEASURES -----

SMALL SPILL PROCEDURES:

ABSORB SPILL WITH AN INERT MATERIAL (E.G. DRY SAND OR EARTH), THEN PLACE IN A CHEMICAL WASTE CONTAINER.

LARGE SPILL:

CONTAIN SPILL AND PREVENT IT FROM ENTERING ALL WATER BODIES, IF POSSIBLE. SAFELY STOP FLOW OF SPILL. EVACUATE NON-ESSENTIAL PERSONNEL FROM IMMEDIATE SPILL AREA DUE TO SLIPPING HAZARDS. IN URBAN AREA, CLEANUP AS SOON AS POSSIBLE. IN NATURAL ENVIRONMENTS, CLEANUP ON ADVICE FROM ECOLOGISTS. THIS MATERIAL WILL FLOAT ON WATER. ABSORBENT MATERIALS AND PADS CAN BE USED.

COMPLY WITH ALL APPLICABLE LAWS. SPILLS MAY NEED TO BE REPORTED TO THE NATIONAL RESPONSE CENTER (800-424-8802).

-----SECTION 7 HANDLING AND STORAGE -----

HANDLING PROCEDURES:

KEEP AWAY FROM HEAT, SPARKS AND FLAME. USE OF OIL IMPERVIOUS GLOVES RECOMMENDED.

STORAGE PROCEDURES:

KEEP OUT OF REACH OF CHILDREN!

TO AVOID PRODUCT DEGRADATION, WATER CONTAMINATION SHOULD BE AVOIDED AND MINIMUM FEASIBLE HANDLING TEMPERATURES SHOULD BE MAINTAINED. PRODUCT DEGRADATION MIGHT INCREASE HEALTH HAZARD RISKS.

STORAGE TEMPERATURE: AMBIENT

STORAGE PRESSURE: ATMOSPHERIC

-----SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION -----

VENTILATION PROCEDURE:

USE ADEQUATE VENTILATION TO KEEP OIL MISTS OF THIS MATERIAL BELOW APPLICABLE GUIDELINE(S) STANDARDS(S).

EYE PROTECTION:

SAFETY GLASSES. IN THE LIKELIHOOD OF SPLASHING OR SPRAYING, AND IF ESPECIALLY IF THE MATERIAL IS HOT (GT 125F), WEAR GOGGLES AND/OR FACE SHIELD. EYE WASH WATER SHOULD BE AVAILABLE. HARD CONTACT LENSES MUST NOT BE WORN.

RESPIRATORY PROTECTION:

UNDER NORMAL USE CONDITIONS, RESPIRATOR IS NOT USUALLY REQUIRED. USE NIOSH/MSHA APPROVED DISPOSABLE DUST/MIST MASK IF THE RECOMMENDED EXPOSURE LIMIT IS EXCEEDED.

SKIN PROTECTION:

AVOID PROLONGED AND/OR REPEATED SKIN CONTACT, OR WEAR IMPERVIOUS PROTECTIVE CLOTHING. WHEN LEAVING WORK, WASH HANDS/EXPOSED SKIN WITH SOAP AND WATER.

-----SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES -----

APPEARANCE: BLUE/GREEN

SPECIFIC GRAVITY: 0.86 - 0.88

VISCOSITY: 7.1 CST @ 100 DEG. C (TYPICAL)

FLASH POINT: 122 DEG. C

PERCENT VOLATILE: NEGLIGIBLE

VAPOR DENSITY: NOT DETERMINED

ODOR: SLIGHT PETROLEUM

VAPOR PRESSURE: NOT DETERMINED

WATER SOLUBILITY: NEGLIGIBLE

-----SECTION 10 STABILITY AND REACTIVITY -----

STABILITY:

STABLE: AVOID EXTREME HEAT AND OPEN FLAME.

INCOMPATIBILITY:

STRONG ACIDS, ALKALIS AND OXIDIZERS SUCH AS LIQUID CHLORINE AND OXYGEN.

HAZARDOUS DECOMPOSITION PRODUCTS:

CARBON MONOXIDES AND OTHER HARMFUL GASES/VAPORS INCLUDING OXIDES

AND/OR
OTHER COMPOUNDS OF ZINC, SULFUR, PHOSPHOROUS AND HYDROGEN SULFIDE.

-----SECTION 11 TOXICOLOGICAL INFORMATION -----

EYE IRRITATION:
NO SIGNIFICANT ADVERSE HEALTH EFFECTS ARE EXPECTED TO OCCUR UPON
SHORT-TERM
EXPOSURE. SLIGHT REDNESS, SWELLING OR BLURRED VISION MAY OCCUR.

SKIN IRRITATION:
AVOID SKIN CONTACT. WHEN CONTACT OCCURS, WASH PROPERLY TO REMOVE. MILD
SKIN
IRRITATION MAY OCCUR UPON SHORT-TERM EXPOSURE. SWELLING OR BLISTERING
UPON
LONG-TERM EXPOSURE.

INHALATION TOXICITY:
NO SIGNIFICANT ADVERSE HEALTH EFFECTS ARE EXPECTED TO OCCUR UNDER
NORMAL
CONDITIONS OF USE. HOWEVER, EXPOSURE TO PETROLEUM MIST AT HIGH LEVELS
MAY
BE IRRITATING TO THE NOSE, THROAT AND LUNGS.

INGESTION: HARMFUL IF ASPIRATED INTO LUNGS.

CHRONIC EFFECTS/CARCINOGENICITY:
LABORATORY STUDIES SPONSORED BY THE AMERICAN PETROLEUM INSTITUTE SHOW
THAT
MICE DEVELOP SKIN CANCER FOLLOWING REPEATED APPLICATION AND CONTINUOUS
EXPOSURE TO A USED MOTOR OIL COMPOSITE. AVOID CONTACT WITH USED MOTOR
OILS.
PERSONNEL WITH PRE-EXISTING SKIN DISORDERS SHOULD AVOID CONTACT WITH
THIS
PRODUCT.

-----SECTION 12 ECOLOGICAL INFORMATION -----

ECOTOICOLOGICAL INFORMATION:
THE SPILLED MATERIAL AND ANY SOIL OR WATER, WHICH IT HAS CONTAMINATED,
MAY
BE HAZARDOUS TO ANIMAL/AQUATIC LIFE.

-----SECTION 13 DISPOSAL CONSIDERATIONS -----

WASTE DISPOSAL:
MAXIMIZE PRODUCT RECOVERY FOR REUSE OR RECYCLING. CONDITIONS OF USE
MAY
CAUSE THIS MATERIAL TO BECOME A "HAZARDOUS WASTE", AS DEFINED BY STATE
OR
FEDERAL LAWS. USE APPROVED TREATMENT, TRANSPORTERS AND DISPOSAL SITES
IN
COMPLIANCE WITH ALL APPLICABLE LAWS. IF SPILL IS INTRODUCED INTO A
WASTE-WATER TREATMENT SYSTEM, CHEMICAL AND BIOLOGICAL OXYGEN DEMAND

WILL
LIKELY INCREASE.

SPILL MATERIAL IS BIODEGRADABLE IF GRADUALLY EXPOSED TO
MICROORGANISMS.
POTENTIAL TREATMENT AND DISPOSAL METHODS INCLUDES LAND FARMING,
INCINERATION AND LAND DISPOSAL IF PERMITTED.

-----SECTION 14 TRANSPORT INFORMATION -----

DOT HAZARDOUS MATERIALS PROPER SHIPPING NAME:
NOT A D.O.T. "HAZARDOUS MATERIAL"

DOT HAZARD CLASS: NOT REGULATED

UN/NAID NO.: NOT REGULATED

-----SECTION 15 REGULATORY INFORMATION -----

SUPERFUND AMMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA), TITLE
III:
SECTION 311/312 HAZARD CATEGORIES. IMMEDIATE (ACUTE) AND DELAYED
(CHRONIC)
HEALTH HAZARDS.

TOXIC SUBSTANCE CONTROL ACT (TSCA):
ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON THE TSCA INVENTORY.

CERCLA HAZARDOUS SUBSTANCES:
NO CHEMICALS IN THIS PRODUCT ARE SUBJECT TO THE REPORTING REQUIREMENTS
OF
CERCLA.

CAL. PROP. 65:
THIS PRODUCT IS NOT KNOW TO CONTAIN ANY CHEMICALS CURRENTLY LISTED AS
CARCINOGENS OR REPRODUCTIVE TOXIN UNDER CALIFORNIA PROPOSITION 65 AT
LEVELS
WHICH WOULD BE SUBJECT TO THE PROPOSITION.

-----SECTION 16 OTHER INFORMATION -----

DISCLAIMER OF LIABILITY:
THE CONDITIONS OR METHODS OF HANDLING, STORAGE, USE AND DISPOSAL OF
THE
PRODUCT ARE BEYOND OUR CONTROL AND MAY BE BEYOND OUR KNOWLEDGE. FOR
THIS
AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY
DISCLAIM
LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY
CONNECTED WITH THE HANDLING STORAGE, USE OR DISPOSAL OF THIS PRODUCT.

THIS MSDS WAS PREPARED AND IS TO BE USED ONLY FOR THIS PRODUCT. IF THE
PRODUCT IS USED AS A COMPONENT IN ANOTHER PRODUCT, THIS MSDS
INFORMATION

MAY NOT BE APPLICABLE

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