

M A T E R I A L S A F E T Y D A T A S H E E T

KORRECT-0 ORGANIC YELLOW

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PRODUCT NAME: KORRECT-O ORGANIC YELLOW
PRODUCT CODE: 2852

HMIS CODES: H F R P
2*2 0 H

=====**SECTION I - MANUFACTURER IDENTIFICATION**=====

MANUFACTURER'S NAME: WOOD KOTE PRODUCTS INC.
ADDRESS : 8000 NE 14TH PLACE
PORTLAND, OR 97211

EMERGENCY PHONE : (800) 535-5053 **DATE PRINTED** : 07/12/07
INFORMATION PHONE : (503) 285-8371 **NAME OF PREPARER** : C. JENKINS

=====**SECTION II - COMPOSITION/ INFORMATION ON INGREDIENTS**=====

2-METHOXY-1-METHYLETHYL ACETATE
CAS-NO. 108-65-6 PERCENT (WT./ WT.) 30 - 60 %
STODDARD SOLVENT; LOW BOILING POINT NAPHTHA - UNSPECIFIED
CAS-NO. 8052-41-3 PERCENT (WT./ WT.) 5 - 10 %
TITANIUM DIOXIDE
CAS-NO. 13463-67-7 PERCENT (WT./ WT.) 1 - 5 %
ETHYLBENZENE
CAS-NO. 100-41-4 PERCENT (WT./ WT.) 0.1 - 1 %
XYLENE
CAS-NO. 1330-20-7 PERCENT (WT./ WT.) 1 - 5 %
OTHER INFORMATION
THIS MATERIAL IS CLASSIFIED AS HAZARDOUS UNDER OSHA REGULATIONS.

=====**SECTION III - HAZARDS IDENTIFICATION**=====

***** EMERGENCY OVERVIEW *****
FORM-PASTE COLOR YELLOW ODOR-SWEET ETHER-LIKE ODOR.
MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.
COMBUSTIBLE LIQUID AND VAPOR.

POTENTIAL HEALTH EFFECTS

EYE CONTACT
IRRITATING. MAY CAUSE TEARING, REDDENING AND/OR SWELLING.

SKIN CONTACT
A MODERATE SKIN IRRITANT BASED ON TESTING OF SIMILAR CHROMA CHEM BASE MIXTURES.
PROLONGED OR REPEATED CONTACT MAY CAUSE IRRITATION.
PROLONGED SKIN CONTACT WITH LARGE AMOUNTS OF ETHER ACETATES MAY CAUSE DROWSINESS.

INHALATION
POSSIBLY IRRITATING.
EXCESSIVE INHALATION OF SOLVENT VAPORS MAY CAUSE NASAL AND RESPIRATORY IRRITATION
AND CENTRAL NERVOUS SYSTEM EFFECTS INCLUDING DIZZINESS, WEAKNESS, FATIGUE,
NAUSEA, HEADACHE, POSSIBLE UNCONSCIOUSNESS AND EVEN DEATH.

INGESTION
MAY CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING, AND DIARRHEA.

TARGET ORGANS

VAPORS MAY CAUSE LIVER AND KIDNEY EFFECTS ACCORDING TO ANIMAL TESTING.

CHRONIC HEALTH HAZARD

HIGH VAPOR CONCENTRATIONS (3000 PPM) OF PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE CAUSED UPPER RESPIRATORY IRRITATION AND LIVER AND KIDNEY EFFECTS IN SUBCHRONIC ANIMAL TESTING. THE RELEVANCE OF THESE RESULTS TO HUMANS IS NOT KNOWN.

HIGH CONCENTRATIONS OF TITANIUM DIOXIDE DUST CAUSED MICROSCOPIC LUNG TUMORS IN RATS IN LIFETIME INHALATION STUDIES. HOWEVER, DUPONT, THE PRIMARY US MANUFACTURER, BASED ON A REVIEW OF THE TEST DATA AND BASED ON AN EPIDEMIOLOGICAL STUDY OF EMPLOYEES, CONCLUDES THAT TITANIUM DIOXIDE PIGMENT WILL NOT CAUSE CHRONIC RESPIRATORY DISEASE IN HUMANS AT CONCENTRATIONS EXPERIENCED IN THE WORKPLACE.

HEALTH STUDIES HAVE SHOWN THAT MANY PETROLEUM HYDROCARBONS POSE POTENTIAL HUMAN HEALTH RISKS WHICH MAY VARY FROM PERSON TO PERSON. AS A PRECAUTION, EXPOSURE TO LIQUIDS, VAPORS, MISTS OR FUMES SHOULD BE MINIMIZED.

HIGH CONCENTRATIONS (0.1 TO 0.2% IN AIR) OF ETHYL BENZENE WILL IRRITATE EYES, MUCOUS MEMBRANE AND RESPIRATORY TRACT, AND WILL CAUSE DIZZINESS AND A SENSE OF CONSTRICTION OF THE CHEST.

SUPPLIERS OF XYLENE HAVE REPORTED THAT HIGH LEVELS OF EXPOSURE TO XYLENE IN SOME ANIMAL STUDIES WERE REPORTED TO HAVE AFFECTED THE DEVELOPMENT OF THE EMBRYO/FETUS. THESE EFFECTS WERE OFTEN AT LEVELS WHICH ARE TOXIC TO THE MOTHER. THE SIGNIFICANCE OF THESE FINDINGS TO HUMAN EXPOSURE HAS NOT BEEN DETERMINED, PARTICULARLY THE EXPOSURE TO THE LOW LEVELS OF XYLENE FOUND IN THIS PRODUCT.

===== SECTION IV - FIRST AID MEASURES =====

INHALATION

IF INHALED, REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, GIVE OXYGEN. IF UNCONSCIOUS, EVALUATE THE NEED FOR ARTIFICIAL RESPIRATION. GET IMMEDIATE MEDICAL ATTENTION.

SKIN CONTACT

IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. THOROUGHLY WASH CLOTHING, SHOES AND PROTECTIVE EQUIPMENT BEFORE REUSE OR DISCARD. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS OR PERSISTS.

EYE CONTACT

IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 30 MINUTES, WHILE HOLDING EYELIDS APART.

DO NOT ALLOW CONTAMINATED WATER TO CONTACT THE UNAFFECTED EYE OR FACE DURING IRRIGATION OF AN AFFECTED EYE. OBTAIN MEDICAL ATTENTION IMMEDIATELY.

INGESTION

DO NOT INDUCE VOMITING. IF VOMITING OCCURS SPONTANEOUSLY, KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION OF LIQUID INTO THE LUNGS. GET MEDICAL ATTENTION.

IF THE HEART HAS STOPPED OR BREATHING HAS STOPPED, TRAINED PERSONNEL SHOULD BEGIN CARDIOPULMONARY RESUSCITATION OR ARTIFICIAL RESPIRATION IMMEDIATELY.

KORRECT-0 ORGANIC YELLOW

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525 MG/M3 TIME WEIGHTED AVERAGE (TWA)
PERMISSIBLE EXPOSURE LIMIT (PEL):(US CA OEL)
• TITANIUM DIOXIDE
CAS-NO. 13463-67-7
10 MG/M3 TIME WEIGHTED AVERAGE (TWA):(ACGIH)
15 MG/M3 PEL:(OSHA Z1)
TOTAL DUST.
5 MG/M3 AS TI TIME WEIGHTED AVERAGE (TWA)
PERMISSIBLE EXPOSURE LIMIT (PEL):(US CA OEL)
RESPIRABLE FRACTION.
10 MG/M3 AS TI TIME WEIGHTED AVERAGE (TWA)
PERMISSIBLE EXPOSURE LIMIT (PEL):(US CA OEL)
TOTAL DUST.
15MILLIONS OF PARTICLES PER CUBIC FOOT OF AIR
TIME WEIGHTED AVERAGE (TWA):(Z3)
RESPIRABLE FRACTION.
50MILLIONS OF PARTICLES PER CUBIC FOOT OF AIR
TIME WEIGHTED AVERAGE (TWA):(Z3)
TOTAL DUST.
5 MG/M3 TIME WEIGHTED AVERAGE (TWA):(Z3)
RESPIRABLE FRACTION.
15 MG/M3 TIME WEIGHTED AVERAGE (TWA):(Z3)
TOTAL DUST.
• ETHYLBENZENE
CAS-NO. 100-41-4
100 PPM TIME WEIGHTED AVERAGE (TWA):(ACGIH)
125 PPM SHORT TERM EXPOSURE LIMIT (STEL):(ACGIH)
100 PPM
435 MG/M3
PEL:(OSHA Z1)
100 PPM
435 MG/M3
TIME WEIGHTED AVERAGE (TWA)
PERMISSIBLE EXPOSURE LIMIT (PEL):(US CA OEL)
125 PPM
545 MG/M3
SHORT TERM EXPOSURE LIMIT (STEL):(US CA OEL)
• XYLENE
CAS-NO. 1330-20-7
100 PPM
435 MG/M3
PEL:(OSHA Z1)
100 PPM TIME WEIGHTED AVERAGE (TWA):(ACGIH)
150 PPM SHORT TERM EXPOSURE LIMIT (STEL):(ACGIH)
100 PPM
435 MG/M3
TIME WEIGHTED AVERAGE (TWA)
PERMISSIBLE EXPOSURE LIMIT (PEL):(US CA OEL)
300 PPM CEILING LIMIT VALUE:(US CA OEL)
150 PPM
655 MG/M3
SHORT TERM EXPOSURE LIMIT (STEL):(US CA OEL)

OTHER INFORMATION

EXPOSURE VALUES FOR MINERAL SPIRITS (CAS# 8052-41-3) ARE GIVEN AS STODDARD SOLVENT.
THE AIHA WHEEL FOR PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE IS 50 PPM TWA.

ENGINEERING MEASURES

USE EXPLOSION-PROOF VENTILATION EQUIPMENT.

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION

A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA 1910.134 AND ANSI Z88.2 OR APPLICABLE FEDERAL/PROVINCIAL REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT RESPIRATOR USE. NIOSH'S "RESPIRATOR DECISION LOGIC" MAY BE USEFUL IN DETERMINING THE SUITABILITY OF VARIOUS TYPES OF RESPIRATORS.

HAND PROTECTION

USE IMPERMEABLE GLOVES.

EYE PROTECTION

CHEMICAL RESISTANT GOGGLES MUST BE WORN.

SKIN AND BODY PROTECTION

A SAFETY SHOWER AND EYE WASH FOUNTAIN SHOULD BE READILY AVAILABLE.
TO IDENTIFY ADDITIONAL PERSONAL PROTECTIVE EQUIPMENT (PPE) REQUIREMENTS, IT IS RECOMMENDED THAT A HAZARD ASSESSMENT IN ACCORDANCE WITH THE OSHA PPE STANDARD (29CFR1910.132) BE CONDUCTED BEFORE USING THIS PRODUCT.

===== SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES =====

FORM PASTE

COLOR YELLOW

ODOR SWEET ETHER-LIKE ODOR.

SAFETY DATA

BOILING POINT/RANGE > 143 °C

FLASH POINT 46.67 °C

METHOD: TAGLIABUE CLOSED CUP

RELATIVE DENSITY 1.1 (25 °C)

SOLUBILITY/QUALITATIVE SOLUBILITY IN WATER: NEGLIGIBLE.

VISCOSITY, DYNAMIC 70-90 KU (25 °C)

SOLVENTS AND VOLATILES DATA

% VOC (GM/L) 545.77

EVAPORATION RATE SLOWER THAN BUTYL ACETATE

===== SECTION X - STABILITY AND REACTIVITY =====

CONDITIONS TO AVOID: AVOID HIGH TEMPERATURES AND SOURCES OF IGNITION.

MATERIALS TO AVOID: OXIDIZING SUBSTANCES

===== SECTION XI - TOXICOLOGICAL INFORMATION =====

COMPONENT ACUTE ORAL TOXICITY

2-METHOXY-1-METHYLETHYL ACETATE

108-65-6

LD50 RAT: 8532 MG/KG

STODDARD SOLVENT; LOW BOILING POINT NAPHTHA - UNSPECIFIED

8052-41-3

LD50 RAT: > 5000 MG/KG

TITANIUM DIOXIDE

13463-67-7

LD50 RAT: > 24000 MG/KG

ETHYLBENZENE

100-41-4

LD50 RAT: 3500 MG/KG

XYLENE

1330-20-7

LD50 RAT: 3523 MG/KG

COMPONENT ACUTE INHALATION TOXICITY

LC50 (RAT) > 4345 PPM, 6 HOURS, VAPOR

RELATED TO SUBSTANCE: 2-METHOXY-1-METHYLETHYL ACETATE

STODDARD SOLVENT; LOW BOILING POINT NAPHTHA - UNSPECIFIED

8052-41-3

LC50 RAT: > 5500 MG/M3 / 4 H

TITANIUM DIOXIDE

13463-67-7

LC50 RAT: > 6820 MG/M3 / 4 H

COMPONENT ACUTE DERMAL TOXICITY

2-METHOXY-1-METHYLETHYL ACETATE

108-65-6

LD50 RABBIT: > 19000 MG/KG

(CALCULATED)

(LITERATURE VALUE)

STODDARD SOLVENT; LOW BOILING POINT NAPHTHA - UNSPECIFIED

8052-41-3

LD50 RABBIT: > 3000 MG/KG

TITANIUM DIOXIDE

13463-67-7

LD50 RABBIT: > 10000 MG/KG

ETHYLBENZENE

100-41-4

LD50 RABBIT: 5000 MG/KG

XYLENE

1330-20-7

LD50 RABBIT: > 4300 MG/KG

COMPONENT REPEATED DOSE

TOXICITY

TITANIUM DIOXIDE

13463-67-7

HIGH CONCENTRATIONS OF TITANIUM DIOXIDE DUST CAUSED MICROSCOPIC LUNG TUMORS IN RATS IN LIFETIME INHALATION STUDIES. HOWEVER, DUPONT, THE PRIMARY US MANUFACTURER, BASED ON A REVIEW OF THE TEST DATA AND BASED ON AN EPIDEMIOLOGICAL STUDY OF EMPLOYEES, CONCLUDES THAT TITANIUM DIOXIDE PIGMENT WILL NOT CAUSE CHRONIC RESPIRATORY DISEASE IN HUMANS AT CONCENTRATIONS EXPERIENCED IN THE WORKPLACE.

COMPONENT CARCINOGENICITY ASSESSMENT

TITANIUM DIOXIDE

13463-67-7

CONTAINS A COMPONENT WHICH IS CLASSIFIED AS AN IARC 2B CARCINOGEN (POSSIBLY CARCINOGENIC TO HUMANS).

ETHYLBENZENE

100-41-4

CONTAINS A COMPONENT WHICH IS CLASSIFIED AS AN IARC 2B CARCINOGEN (POSSIBLY CARCINOGENIC TO HUMANS).

COMPONENT TERATOGENICITY

XYLENE

1330-20-7

INHALATIVE RAT: IN MATERNALLY NON-TOXIC DOSES

NOAEL (NO OBSERVED ADVERSE EFFECT LEVEL) TERATOGENESIS: 2.165 MG/L METHOD: OECD TG 414

SUPPLIERS OF XYLENE HAVE REPORTED THAT HIGH LEVELS OF EXPOSURE TO XYLENE IN SOME ANIMAL STUDIES WERE REPORTED TO HAVE AFFECTED THE DEVELOPMENT OF THE EMBRYO/FETUS. THESE EFFECTS WERE OFTEN AT LEVELS WHICH ARE TOXIC TO THE MOTHER. THE SIGNIFICANCE OF THESE FINDINGS TO HUMAN EXPOSURE HAS NOT BEEN DETERMINED, PARTICULARLY THE EXPOSURE TO THE LOW LEVELS OF XYLENE FOUND IN THIS PRODUCT.

COMPONENT TERATOGENICITY ASSESSMENT

XYLENE

1330-20-7

POTENTIAL EMBRYO-FOETAL TOXICITY AND TERATOGENICITY.

COMPONENT GENERAL TOXICITY INFORMATION

2-METHOXY-1-METHYLETHYL ACETATE

108-65-6

HIGH VAPOR CONCENTRATIONS (3000 PPM) OF PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE CAUSED UPPER RESPIRATORY IRRITATION AND LIVER AND KIDNEY EFFECTS IN SUBCHRONIC ANIMAL TESTING. THE RELEVANCE OF THESE RESULTS TO HUMANS IS NOT KNOWN.

XYLENE

1330-20-7

OVEREXPOSURE TO XYLENE HAS BEEN SUGGESTED AS A CAUSE OF THE FOLLOWING EFFECTS IN LABORATORY ANIMALS AND MAY AGGRAVATE PRE-EXISTING DISORDERS OF

===== SECTION XII - ECOLOGICAL INFORMATION =====

GENERAL ECOLOGICAL INFORMATION NO ECOTOXICOLOGICAL STUDIES ARE AVAILABLE.

===== SECTION XIII - DISPOSAL CONSIDERATIONS =====

WASTE DISPOSAL

ADVICE ON DISPOSAL: WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE, PROVINCIAL AND LOCAL REGULATIONS. CONTAINER DISPOSAL: EMPTY CONTAINERS BY REMOVING THE TOP AND INVERTING TO ALLOW ALL FREE FLOWING PRODUCT TO DRAIN. TO MEET REGULATORY CRITERIA, THE CONTAINER IS CONSIDERED EMPTY WHEN LESS THAN 3% REMAINS IN THE CONTAINER. ADDITIONAL SPECIAL HANDLING IS NOT TYPICALLY

REQUIRED AND THE EMPTY CONTAINER CAN BE DISCARDED WITH OTHER NONHAZARDOUS TRASH. NOTE: LOCAL DISPOSAL REGULATIONS MAY BE MORE STRINGENT AND REQUIRE ADDITIONAL RESTRICTIONS OR PRECAUTIONS. CUSTOMERS SHOULD CHECK WITH THEIR LOCAL DISPOSAL COMPANY, MUNICIPAL OR STATE AUTHORITY. RECYCLE OF PLASTIC OR METAL CONTAINERS MAY REQUIRE CLEAN RATHER THAN EMPTY CONTAINERS. IN THIS CASE THE CONTAINERS CAN BE RINSED WITH MINERAL SPIRITS UNTIL THE CONTAINERS ARE CONSIDERED GENERALLY PRODUCT FREE.

===== SECTION XIV - TRANSPORT INFORMATION =====

SEA TRANSPORT IMDG-CODE

CLASS 3

UN-NO 1263

PACKAGING GROUP III

EMS F-E, S-E

PROPER TECHNICAL NAME (PROPER SHIPPING NAME)

PAINT RELATED MATERIAL

AIR TRANSPORT ICAO-TI/IATA-DGR

CLASS 3

UN-NO 1263

PACKAGING GROUP III

PROPER TECHNICAL NAME (PROPER SHIPPING NAME)

PAINT RELATED MATERIAL

LOADING INSTRUCTIONS/REMARKS

IATA_C ERG-CODE 3L

IATA_P ERG-CODE 3L

CFR_INWTR IN THE U.S. THIS MATERIAL MAY BE CLASSIFIED AS COMBUSTIBLE LIQUID. COMBUSTIBLE LIQUIDS ARE NOT REGULATED IN PACKAGES 450 LITERS OR LESS. THIS APPLIES FOR SHIPMENTS BY ROAD AND RAIL ONLY.

CFR_RAIL IN THE U.S. THIS MATERIAL MAY BE CLASSIFIED AS COMBUSTIBLE LIQUID. COMBUSTIBLE LIQUIDS ARE NOT REGULATED IN PACKAGES 450 LITERS OR LESS. THIS APPLIES FOR SHIPMENTS BY ROAD AND RAIL ONLY.

CFR_ROAD IN THE U.S. THIS MATERIAL MAY BE CLASSIFIED AS COMBUSTIBLE LIQUID. COMBUSTIBLE LIQUIDS ARE NOT REGULATED IN PACKAGES 450 LITERS OR LESS. THIS APPLIES FOR SHIPMENTS BY ROAD AND RAIL ONLY.

===== SECTION XV - REGULATORY INFORMATION =====

US FEDERAL REGULATIONS

OSHA

IF LISTED BELOW, CHEMICAL SPECIFIC STANDARDS APPLY TO THE PRODUCT OR COMPONENTS:

- NONE LISTED

CLEAN AIR ACT SECTION (112)

IF LISTED BELOW, COMPONENTS PRESENT AT OR ABOVE THE DE MINIMUS LEVEL ARE HAZARDOUS AIR POLLUTANTS:

- NONE LISTED

CERCLA REPORTABLE QUANTITIES

IF LISTED BELOW, A REPORTABLE QUANTITY (RQ) APPLIES TO THE PRODUCT BASED ON THE PERCENT OF THE NAMED COMPONENT:

- NONE LISTED

SARA TITLE III SECTION 311/312 HAZARD CATEGORIES

THE PRODUCT MEETS THE CRITERIA ONLY FOR THE LISTED HAZARD CLASSES:

- ACUTE HEALTH HAZARD
- CHRONIC HEALTH HAZARD
- FIRE HAZARD

SARA TITLE III SECTION 313 REPORTABLE SUBSTANCES

IF LISTED BELOW, COMPONENTS ARE SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372:

- NONE LISTED

TOXIC SUBSTANCES CONTROL ACT (TSCA)

IF LISTED BELOW, NON-PROPRIETARY SUBSTANCES ARE SUBJECT TO EXPORT NOTIFICATION UNDER SECTION 12 (B) OF

TSCA:

- NONE LISTED
- STATE REGULATIONS

CALIFORNIA PROPOSITION 65

A WARNING UNDER THE CALIFORNIA DRINKING WATER ACT IS REQUIRED ONLY IF LISTED BELOW:

- NONE LISTED

INTERNATIONAL CHEMICAL INVENTORY STATUS

UNLESS OTHERWISE NOTED, THIS PRODUCT IS IN COMPLIANCE WITH THE INVENTORY LISTING OF THE COUNTRIES SHOWN

BELOW. FOR INFORMATION ON LISTING FOR COUNTRIES NOT SHOWN, CONTACT DEGUSSA CORPORATION PRODUCT

REGULATORY DEPARTMENT:

- EUROPE (EINECS/ELINCS) LISTED/REGISTERED
- USA (TSCA) LISTED/REGISTERED
- CANADA (DSL) LISTED/REGISTERED
- AUSTRALIA (AICS) LISTED/REGISTERED
- JAPAN (MITI) NOT LISTED/NOT REGISTERED
- KOREA (TCCL) NOT LISTED/NOT REGISTERED
- PHILIPPINES (PICCS) NOT LISTED/NOT REGISTERED
- CHINA LISTED/REGISTERED

===== SECTION XVI- DISCLAIMER =====

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA AVAILABLE TO US AND IS BELIEVED TO BE CORRECT. WOOD KOTE PRODUCTS MAKES NO WARRANTY, EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. WOOD KOTE PRODUCTS ASSUMES NO RESPONSIBILITY FOR INJURY FROM THE USE OF THE PRODUCT DESCRIBED HEREIN.