

PRODUCT NAME: MARTIN ENG NISO ORANGE
PRODUCT CODE: 0301-OR-0003

HMIS® CODES: H F Ph
*2 3 0

===== SECTION I - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: Northern Coatings and Chemical Co., Inc.
ADDRESS : 705 6th Avenue
Menominee, MI 49858

EMERGENCY PHONE : (800) 255-3924 DATE PRINTED : 12/17/2010
INFORMATION PHONE : (906) 863-2641 NAME OF PREPARER : NCC

===== SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION =====

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE		WEIGHT
		mm Hg @ TEMP		PERCENT
METHYL N-AMYL KETONE	110-43-0	2.1	68°F	23.3
OSHA PEL-TWA 100 PPM				
OSHA VPPEL-TWA 100 PPM				
ACGIH TLV -TWA 50 PPM				
T-BUTYL ACETATE (EXEMPT)	540-88-5	34	25°C	15.0
OSHA PEL 200 PPM				
* ZINC COMPOUND	7779-90-0			2.2

* DESIGNATES SARA 313 REPORTABLE

===== SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS =====

BOILING RANGE: 208°F - 300°F DENSITY (LB/GL): 11.257
VAPOR DENSITY: HEAVIER THAN AIR. EVAPORATION RATE: SLOWER THAN ETHER.
SOLUBILITY IN WATER: WATER INSOLUBLE.
APPEARANCE AND ODOR: VARIES WITH COLOR / ORGANIC SOLVENT ODOR.

===== SECTION IV - FIRE AND EXPLOSION HAZARD DATA =====

FLASH POINT: 40°F (ESTIMATED)
FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: 1.1% UPPER: 7.9%

EXTINGUISHING MEDIA:
CARBON DIOXIDE, DRY CHEMICAL, FOAM

SPECIAL FIREFIGHTING PROCEDURES
WARNING: FLAMMABLE. CLEAR FIRE AREA OF UNPROTECTED PERSONNEL.
DO NOT ENTER CONFINED FIRE SPACE WITHOUT HELMET, FACE SHIELD,
BUNKER COAT, GLOVES, RUBBER BOOTS AND A POSITIVE-PRESSURE
NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS.

UNUSUAL FIRE AND EXPLOSION HAZARDS
CONTAINER AREAS EXPOSED TO DIRECT FLAME CONTACT SHOULD BE COOLED
WITH LARGE QUANTITIES OF WATER AS NEEDED TO PREVENT WEAKENING OF

CONTAINER STRUCTURE.

CONTAINERS EXPOSED TO INTENSE HEAT FROM FIRES SHOULD BE COOLED WITH WATER TO PREVENT VAPOR PRESSURE BUILDUP WHICH COULD RESULT IN CONTAINER RUPTURE.

===== SECTION V - PHYSICAL HAZARDS

STABILITY: THIS PRODUCT IS STABLE UNDER NORMAL STORAGE CONDITIONS. CONDITIONS TO AVOID

NONE KNOWN.

INCOMPATIBILITY (MATERIALS TO AVOID)

AVOID CONTACT WITH STRONG ALKALIES, STRONG MINERAL ACIDS, OR STRONG OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS WHEN HEATED. WELDING BRAZING, OR FLAME-CUTTING ON SURFACES COATED WITH THIS PRODUCT MAY PRODUCE FUMES INCLUDING CARBON MONOXIDE AND NITROGEN OXIDES.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR UNDER NORMAL CONDITIONS.

===== SECTION VI - HEALTH HAZARD DATA

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

DIZZINESS, NAUSEA, NARCOSIS, HEADACHE, DRYING OF NASAL MUCOSA, ANESTHESIA.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

CAUSES EYE BURNS AND SKIN IRRITATION.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

HARMFUL IF ABSORBED THROUGH THE SKIN.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

NAUSEA, VOMITING, IRRITATION OF MOUTH AND THROAT.

HEALTH HAZARDS (ACUTE AND CHRONIC)

MAY CAUSE KIDNEY DAMAGE, LIVER ABNORMALITIES, LUNG DAMAGE, BLOOD EFFECTS, EYE DAMAGE, DRYING AND IRRITATION OF THE SKIN.

NOTICE:REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED EXPOSURE TO SOLVENTS WITH BRAIN AND NERVOUS SYSTEM DAMAGE.

INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS OF THIS PACKAGE MAY BE HARMFUL OR FATAL.

CARCINOGENICITY:

NTP CARCINOGEN:

IARC MONOGRAPHS:

OSHA REGULATED:

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

PRE-EXISTING SENSITIVITY TO SOLVENTS CAN CAUSE A HEIGHTENED REACTION TO EXPOSURE TO THIS PRODUCT.

EMERGENCY AND FIRST AID PROCEDURES

WASH SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES AND REMOVE CONTAMINATED CLOTHING.

IN CASE OF CONTACT WITH EYES, IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES.

IF INHALED, REMOVE TO FRESH AIR, RESTORE BREATHING. CONSULT A PHYSICIAN.

IF SWALLOWED, GET MEDICAL ATTENTION.

===== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

DO NOT USE WATER IN CLEANUP PROCEDURES. AVOID DISCHARGE INTO SEWERS AND WATERWAYS. CONTACT APPROPRIATE LOCAL, STATE AND FEDERAL AUTHORITIES IF THIS SHOULD OCCUR.

AVOID EYE CONTACT AND PROLONGED OR REPEATED SKIN CONTACT WITH SPILLED MATERIAL. ENSURE ADEQUATE VENTILATION DURING CLEANUP.

ELIMINATE ALL SOURCES OF IGNITION. WEAR PROTECTIVE EQUIPMENT. DIKE SPILL, COLLECT WITH ABSORBENT MATERIAL, AND REMOVE TO WASTE CONTAINERS. USE NON-SPARKING TOOLS FOR CLEANUP.

WASTE DISPOSAL METHOD

EMPTY CONTAINERS SHOULD BE RECYCLED OR DISPOSED OF THROUGH AN APPROVED WASTE MANAGEMENT FACILITY.

WASTE MATERIAL MUST BE DISPOSED OF IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL CONTROL REGULATIONS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

USE WITH ADEQUATE VENTILATION. ALL HANDLING EQUIPMENT SHOULD BE ELECTRICALLY GROUNDED AND EXPLOSION-PROOF. STORE AWAY FROM EXCESSIVE HEAT AND IGNITION SOURCES.

STORE IN TIGHTLY CLOSED CONTAINERS. DO NOT PUNCTURE, DROP MORE THAN 5 INCHES, OR SLIDE CONTAINERS. OPEN CONTAINERS SLOWLY IN ORDER TO RELEASE ANY PRESSURE WHICH MAY HAVE DEVELOPED.

OTHER PRECAUTIONS

AVOID CONTACT WITH EYES, SKIN AND CLOTHING. WASH THOROUGHLY AFTER HANDLING, AVOID BREATHING VAPORS.

===== **SECTION VIII - CONTROL MEASURES**

RESPIRATORY PROTECTION

USE ONLY WITH ADEQUATE VENTILATION. A NIOSH-APPROVED ORGANIC VAPOR CHEMICAL CARTRIDGE RESPIRATOR SHOULD BE USED IF VENTILATION IS INADEQUATE.

A SELF-CONTAINED OR AIR SUPPLIED BREATHING APPARATUS SHOULD BE USED IN CONFINED SPACES.

VENTILATION

SUFFICIENT VENTILATION, IN VOLUME AND PATTERN, SHOULD BE PROVIDED TO KEEP AIR CONTAMINATION BELOW CURRENT APPLICABLE OSHA PERMISSIBLE EXPOSURE LIMIT OR ACGIH'S TLV LIMIT.

AT LEAST 60 FPM FACE VELOCITY IN CONFINED SPACES. USE EXPLOSION-PROOF VENTILATION EQUIPMENT.

SPECIAL: AS REQUIRED TO REMOVE SOLVENT VAPORS FROM LOWER LEVELS OF WORK AREAS OR EXPOSURE TO IGNITION SOURCES.

MECHANICAL: GENERAL DILUTION-TYPE SHOULD BE USED.

LOCAL EXHAUST: PROVIDE ADEQUATE VENTILATION TO KEEP VAPOR CONCENTRATIONS BELOW THE LEL AND OSHA PEL AND/OR ACGIH TLV LEVELS.

PROTECTIVE GLOVES

RECOMMENDED.

EYE PROTECTION

CHEMICAL GOGGLES RECOMMENDED.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

USE PROTECTIVE CREAMS WHERE SKIN CONTACT IS LIKELY. REMOVE AND WASH CONTAMINATED CLOTHING BEFORE REUSE.

CHEMICAL IMPERVIOUS APRON OR SMOCK AND CHEMICAL IMPERVIOUS BOOTS SHOULD BE WORN. AN EYE RINSE STATION AND SAFETY SHOWER SHOULD BE AVAILABLE.

WORK/HYGIENIC PRACTICES

WASH HANDS BEFORE EATING OR SMOKING. SMOKE IN DESIGNATED AREAS ONLY.

AVOID CONTACT WITH EYES, SKIN AND CLOTHING. WASH THOROUGHLY AFTER HANDLING. AVOID BREATHING VAPORS.

===== SECTION IX - DISCLAIMER =====

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