GHS PRODUCT IDENTIFIER

NAME
HIKOTACK P-140

CHEMICAL FAMILY
PETROLEUM HYDROCARBON RESIN

CAS NUMBER
64742-16-1

RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE:

RECOMMENDED USE
ADDITIVE FOR ADHESIVES, PAINTS, COATINGS, INKS

RESTRICTIONS ON USE
USED FOR RECOMMENDED USE.

MANUFACTURER/IMPORTER/SUPPLIER INFORMATION

SUPPLIER NAME
KOLON INDUSTRIES

ADDRESS
15TH FL, KOLON TOWER , KOLON-RO 11,
GWACHEON-CITY,GYEONGGO-DO,KOREA(427-709)

TELEPHONE / FAX
(82) 2 3677 6124 / (82) 2 3677 6191

EMERGENCY TELEPHONE
HEALTH, SAFETY & ENVIRONMENTAL INFORMATION
(82) 2 3677 6124

CLASSIFICATION

NOT CLASSIFIED

EL CLP (EC no. 1272/2008)
NOT CLASSIFIED

NFPA
HEALTH = 1 FIRE =1 REACTIVITY = 0 (0 = NO HAZARD, 1 = SLIGHT HAZARD)
SECTION 3: COMPOSITION, INFORMATION ON INGREDIENTS

COMPONENT | CAS NUMBER | Weight % Range
--- | --- | ---
PETROLEUM HYDROCARBON RESIN | 64742-16-1 | 100

SECTION 4: FIRST AID MEASURES

EYE CONTACT
FLUSH EYES WITH AMOUNT OF WATER FOR AT LEAST 15 MINUTES.
GET MEDICAL ATTENTION IMMEDIATELY.

SKIN CONTACT
GET MEDICAL ATTENTION IF NEEDED.
DRY AND WASH THOROUGHLY CONTAMINATED CLOTHING AND SHOES BEFORE REUSE.
REMOVE CONTAMINATED CLOTHING AND SHOES. WASH IMMEDIATELY SKIN WITH SOAP AND WATER FOR AT LEAST 15 MINUTES.

INHALATION
GIVE ARTIFICIAL RESPIRATION IF VICTIM IS NOT BREATHING.
MOVE VICTIM TO NON-CONTAMINATED PLACE IF SIDE EFFECT OCCURRED.
GET MEDICAL ATTENTION IMMEDIATELY.

INGESTION
GET MEDICAL ATTENTION IF SWALLOWED AMOUNT OF SUBSTANCE.

OTHER NOTES FOR PHYSICIAN
THERE IS NOT SPECIFIC ANTIDOTE. TAKE FUNCTIONALLY MEASURES ACCORDING TO SYMPTOMS.

SECTION 5: FIRE FIGHTING MEASURES

SUITABLE (AND UNSUITABLE) EXTINGUISHING MEDIA

SUITABLE EXTINGUISHING MEDIA
DRY CHEMICAL, CO₂, WATER SPRAY, REFULAR FOAM

UNSUITABLE EXTINGUISHING MEDIA
NOT AVAILABLE

IN CASE OF MAJOR FIRE AND LARGE QUANTITIES
USE REGULAR EXTINGUISHING AGENT AND FINE WATER SPRAY.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL
THERMAL DECOMPOSITION PRODUCTS
CARBON OXIDES

FIRE AND EXPLOSIVE HAZARD
IT COULD BE A SLIGHT FIRE HAZARD.

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS
MOVE CONTAINERS FROM FIRE AREA IF YOU CAN DO IT WITHOUT RISK.
DO NOT SCATTER SPILLED MATERIAL WITH HIGH PRESSURE WATER STREAMS.
MAKE AN EMBANKMENT FOR FURTHER PROCESSING.
USE EXTINGUISHING AGENT SUITABLE FOR TYPE OF SURROUNDING FIRE.
AVOID INHALATION OF THE SUBSTANCE OR COMBUSTION PRODUCTS.
STAY UPWIND AND KEEP OUT OF LOW AREAS.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES
- KEEP AWAY FROM WATERWAYS AND SEwers.
- ISOLATE EXPOSED AREA.
- KEEP UNAUTHORIZED PERSONNEL AWAY.
- MOVE MATERIALS TO SUITABLE CONTAINERS FOR LATER DISPOSAL.

ENVIRONMENTAL PRECAUTIONS AND PROTECTIVE PROCEDURES

ATMOSPHERE
- NOT AVAILABLE

LAND
- NOT AVAILABLE

UNDERWATER
- DO NOT RELEASE SPILLAGE INTO SEwERS.

THE METHODS OF PURIFICATION AND REMOVAL

SMALL SPILL
- DISPOSE WASTE AS WASTE SYNTHESIS RESIN (GENERAL WASTE).

LARGE SPILL
- COLLECT AND THEN RECYCLE OR DISPOSE AS A WASTE RESIN (GENERAL WASTE).

SECTION 7 : HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING
- PREVENT SKIN AND EYE CONTACT
- AVOID CONTACT IN THE MOLTEN STATE BY HEAT AND VAPOR INHALATION.
- WHEN STATIC ELECTRICITY GENERATES, REMOVE BY GROUNDING, CLEANING WORK SPACE, AND USING ARTICLES PREVENTING ELECTRIFICATION.

CONDITIONS FOR SAFE STORAGE
- MINIMIZE GENERATION AND ACCUMULATION OF DUST
- STORE IN A COOL, DRY AND WELL-VENTILATED AREA.
- AVOID CONTACT WITH STRAIGHT SUNLIGHT.
- STORE AND USE BY REGULATION OF CENTRAL GOVERNMENT AND LOCAL SELF-GOVERNMENT.

SECTION 8 : EXPOSURE CONTROLS, PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS

OSHA
- TWA - 5 mg/m³ (RESPIRABLE DUST FRACTION)

BIOLoGICAL EXPOSURE INDEX
- NOT AVAILABLE

KOREAN OCCUPATION OF SAFETY AND HEALTH REGULATION
- NOT AVAILABLE
APPROPRIATE ENGINEERING CONTROLS

PROVIDE LOCAL EXHAUST VENTILATION SYSTEM OR OTHER ENGINEERING CONTROLS TO KEEP THE AIRBORNE CONCENTRATIONS OF VAPOR BELOW THEIR RESPECTIVE THRESHOLD LIMIT VALUE. CHECK LEGAL SUITABILITY OF EXPOSURE LEVEL.

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATOR

WEAR NIOSH OR EUROPEAN STANDARD EN 149 APPROVED FULL OR HALF FACE PIECE(WITH GOGGLES) RESPIRATORY PROTECTIVE EQUIPMENT WHEN NECESSARY.

AIR RESPIRATOR ARE REQUIRED IN CASE OF HIGH FREQUENCY USE OR SEVERE EXPOSURE

AIR-PURIFYING RESPIRATOR(HIGH EFFICIENCY PARTIFULATE ABSORBER) IN CASE OF UNKNOWN CONCENTRATIONS OR URGENT RISK OF LIFE/HEALTH

AIR-LINE MASK(COMBINATION AIRLINE BREATHING MASK)

AIR-BREATHTHING APPARAUASE(FULL FACEPIECE)

EYE PROTECTION

WEAR SAFETY GLASSES(GOGGLES) TO PROTECT EYES FROM DUST.

HAND PROTECTION

WEAR APPROPRIATE PROTECTIVE GLOVES TO PREVENT EXPOSURE OF SKIN.

BODY PROTECTION

WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT EXPOSURE OF SKIN.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

STATE

SOLID

COLOR

YELLOW

ODOR

PETROCHEMICAL ODOR

ODOR THRESHOLD

NOT AVAILABLE

Ph

NOT AVAILABLE

MELTING POINT/FREEZING POINT

140~150℃ (SOFTENING POINT)

INITIAL BOILING POINT AND BOILING RANGE

NOT AVAILABLE

FLASH POINT

>270℃

EVAPORATION RATE

NOT APPLICABLE

FLAMMABILITY(SOLID, GAS)

NOT AVAILABLE
UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS
   NOT AVAILABLE
   (DUST EXPLOSIVENESS : MINIMUM COMPLEXING ENERGY (M.I.E TEST) 3~5mJ)
VAPOR PRESSURE
   NOT APPLICABLE
SOLUBILITY(ies)
   INSOLUBLE
VAPOR DENSITY
   NOT APPLICABLE
SPECIFIC GRAVITY
   1.05~1.10
PARTITION COEFFICIENT (n-OCTANOL/WATER)
   NOT APPLICABLE
AUTO IGNITION TEMPERATURE
   NOT AVAILABLE
DECOMPOSITION TEMPERATURE
   NOT AVAILABLE
VISCOSITY
   2150 cps(200°C)
MOLECULAR WEIGHT
   APPROX. 2800 (Mw)

SECTION 10 : STABILITY AND REACTIVITY

CHEMICAL STABILITY AND POSSIBILITY OF HAZARDOUS REACTIONS
   STABLE UNDER NORMAL TEMPERATURES AND PRESSURES.
   IT WILL NOT OCCUR POLYMERIZATION REACTION.
CONDITION TO AVOID
   AVOID HEAT, FLAMES, SPARKS AND OTHER SOURCES OF IGNITION.
INCOMPATIBLE MATERIALS
   STRONG OXIDIZING AGENT
HAZARDOUS DECOMPOSITION PRODUCTS
   CARBON OXIDES

SECTION 11 : TOXICOLOGICAL INFORMATION

INFORMATION ON THE LIKELY ROUTES OF EXPOSURE
   VAPOR BY POLYMERIZATION OR DECOMPOSITION MAY CAUSE IRRITATION
   OF EYES, SKIN, THROAT AND LUNG.
INFORMATION OF HEALTH HAZARDOUS
   ACUTE TOXICITY
     ORAL : NOT CLASSIFIED (LD50 = 7,000mg/kg(RAT))
     DERMAL : NOT CLASSIFIED (NOT AVAILABLE)
     INHALATION(DUST/MIST) : NOT CLASSIFIED (NOT AVAILABLE)
   SKIN CORROSION/IRRITATION
     NOT CLASSIFIED
     SKIN IRRITATION TEST : NOT IRRITATIVE W BASED ON PRIMARY IRRITATION
INDEX = 0

SERIOUS EYE DAMAGE/IRRITATION
   NOT CLASSIFIED (NOT AVAILABLE)

RESPIRATORY SENSITIZER
   NOT AVAILABLE

SKIN SENSITIZATION
   NOT CLASSIFIED (NOT AVAILABLE)

CARCINOGENICITY
   NOT AVAILABLE
   IARC : NOT AVAILABLE
   NTP : NOT AVAILABLE
   OSHA : NOT AVAILABLE
   WISHA : NOT AVAILABLE
   ACGIH : NOT AVAILABLE

MUTAGENICITY
   NOT CLASSIFIED (NOT AVAILABLE)

REPRODUCTIVE TOXICITY
   NOT CLASSIFIED (NOT AVAILABLE)

SPECIFIC TARGET ORGAN TOXICITY(SINGLE EXPOSURE)
   NOT CLASSIFIED (NOT AVAILABLE)

SPECIFIC TARGET ORGAN TOXICITY(REPEAT EXPOSURE)
   NOT CLASSIFIED (NOT AVAILABLE)

ASPIRATION HAZARD
   NOT CLASSIFIED (NOT AVAILABLE)

SECTION 12 : ECOLOGICAL INFORMATION

ECOLOGICAL TOXICITY

FISH
   NOT CLASSIFIED (NOT AVAILABLE)

CRUSTACEA
   NOT CLASSIFIED (NOT AVAILABLE)

ALGAE
   NOT CLASSIFIED (NOT AVAILABLE)

PERSISTENCE AND DEGRADABILITY

PERSISTENCE
   NOT AVAILABLE

DEGRADABILITY
   NOT AVAILABLE

BIOACCUMULATIVE POTENTIAL

BIOACCUMULATION
   NOT AVAILABLE

BIODEGRADATION
   NOT AVAILABLE

MOBILITY IN SOIL
   NOT AVAILABLE

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SECTION 13 : DISPOSAL CONSIDERATIONS

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

DISPOSAL PRECAUTION
CONSIDER THE REQUIRE ATTENTIONS IN ACCORDANCE WITH WASTE TREATMENT MANAGEMENT REGULATION.

SECTION 14 : TRANSPORT INFORMATION

UN NUMBER
NOT APPLICABLE BY IATA REGULATION

UN PROPER SHIPPING NAME
NOT APPLICABLE BY IATA REGULATION

TRANSPORT HAZARD CLASS
NOT APPLICABLE BY IATA REGULATION

PACKING GROUP
NOT APPLICABLE BY IATA REGULATION

MARINE POLLUTANT
NOT APPLICABLE BY IATA REGULATION

INFORMATION NOTE
IN CASE OF FIRE
NOT APPLICABLE BY IATA REGULATION

IN CASE OF LEAKAGE
NOT APPLICABLE BY IATA REGULATION

SECTION 15 : REGULATORY INFORMATION

EU CLASSIFICATION
CLASSIFICATION
NOT AVAILABLE

RISK PHRASES
NOT AVAILABLE

SAFETY PHRASES
NOT AVAILABLE

EU RoHS REGULATION(DIRECTIVE 2002/96/EC)
THE FOUR HEAVY METALS AND BROMINATED FLAME RETARDANTS WERE NOT DETECTED.

U.S.A MANAGEMENT INFORMATION
OSHA(29CFR1910.119)
NOT REGULATED

CERCLA 103(40CFR302.4)
NOT REGULATED

EPCRA 302 (40CFR355.3)
NOT REGULATED

EPCRA 304 (40CFR355.4)
NOT REGULATED

EPCRA 313 (40CFR372.65)
NOT REGULATED

SARA CLASSIFICATION
SARA HAZARD CATEGORIES, SARA SECTIONS 311/312 (40CFR370.21) : NONE
SARA SECTION 313 (40CFR372.65) : NONE

SUBSTANCE OF ROTHERDAME PROTOCOL
NOT REGULATED

SUBSTANCE OF STOCKHOLME PROTOCOL
NOT REGULATED

SUBSTANCE OF MONTREAL PROTOCOL
NOT REGULATED

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

DSL (CANADIAN DOMESTIC SUBSTANCES LIST) : ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON THE DSL INVENTORY.

EINECS (EUROPEAN INVENTORY OF EXISTING COMMERCIAL CHEMICAL SUBSTANCES) : THIS PRODUCT IS LISTED ON EINECS OR OTHERWISE COMPLIES WITH EINECS REQUIREMENTS.

AICS/NICNAS (AUSTRALIAN INVENTORY OF CHEMICAL SUBSTANCES AND NATIONAL INDUSTRIAL CHEMICALS NOTIFICATION AND ASSESSMENT SCHEME) : ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON THE AICS OR OTHERWISE COMPLY WITH NICNAS INVENTORY.

MITI (JAPANESE HANDBOOK OF EXISTING AND NEW CHEMICAL SUBSTANCES) : ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON THE MITI INVENTORY.

KECI (KOREAN EXISTING CHEMICAL AND CHEMICAL SUBSTANCES) : ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON THE KECI INVENTORY.

PICCS (PHILIPPINES INVENTORY OF CHEMICAL AND CHEMICAL SUBSTANCES) ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON THE PICCS INVENTORY.

SECTION 16 : OTHER INFORMATION

INFORMATION SOURCE AND REFERENCES
KOREA OCCUPATIONAL HEALTH&SAFETY AGENCY (SDS)
(HTTP://WWW.KOSHA.NET)

THE PRODUCT ANALYSIS CONDUCTED BY RESEARCH INSTITUTE OF KOLON INDUSTRIES, Inc. (CHEMICAL)

KOREA TESTING AND RESEARCH INSTITUTE FOR CHEMICAL INDUSTRY SKIN IRRITATION TEST DATA (TBH-000718 (2003), TEST METHOD : THE NOTICE 1999-61 OF KOREA FOOD AND DRUG ADMINISTRATION

KOREA TESTING AND RESEARCH INSTITUTE FOR CHEMICAL INDUSTRY HAZ-
ARDOUS CHEMICAL SUBSTANCE ANALYSIS DATA
M.I.E TEST REPORT OF CHILWORTH IN USA
THE SDS DATA PUBLISHED BY ANTIOXIDANT MANUFACTURER
CHEMICAL RISK INFORMATION PLATFORM(CHRIP)
(HTTP://WWW.SAFE.NITE.GO.JP/ENGLISH/DB.HTML)
QUANTITATIVE STRUCTURE ACTIVITY RELATION(QSAR)
INTERNATIONAL UNIFORM CHEMICAL INFORMATION DATABASE(IUCLID)
(HTTP://ECB.JRC.IT/ESIS)

ISSUING DATE
07 AUGUST 1996

REVISION NUMBER AND DATE

REVISION NUMBER
12TH

DATE OF THE LASTEST REVISION
1 MAY 2015

REASON FOR REVISION
CLASSIFICATION AND LABELLING OF CHEMICALS FOLLOWING GHS AND FOLLOWING THE NOTICE ABOUT PREPARING OF A SAFETY DATA SHEET.

PREPARED BY
G.D.KIM, MANAGER OF TECHNICAL TEAM,
ULSAN PLANT, KOLON INDUSTRIES

THE INFORMATION CONTAINED HEREIN IS TO THE BEST OF OUR KNOWLEDGE AND BELIEF ACCURATE. SINCE SDS IS TO PROVIDE INFORMATION ON THE HEALTH/SAFETY/ENVIRONMENT TO USERS OF THE SUBSTANCE, DATA WRITTEN HERE DO NOT MEAN TO ENSURE PROPERTIES OF MATTER OR SPEC.