

# SDS

(SAFETY DATA SHEET)

 **KOLON INDUSTRIES**

15th Fl, KOLON Tower , Kolon-Ro 11,  
GWACHEON-City, Gyeonggi-do, KOREA(427-709)  
• Tel : 82-2-3677-6124 • Fax : 82-2-3677-6191

REVISION DATE : 1/MAY/2015, VERSION 12.

-----  
**SECTION 1 : IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER**  
-----

**GHS PRODUCT IDENTIFIER**

NAME

HIKOTACK P-90HS

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

-----  
**SECTION 2 : HAZARDS IDENTIFICATION**  
-----

**CLASSIFICATION**

US OSHA's Hazard Communication Standard 2012

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**  
-----

<u>COMPONENT</u>	<u>CAS NUMBER</u>	<u>Weight % Range</u>
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, CO<sub>2</sub>, WATER SPRAY, REFULAR FOAM

**UNSUITABLE EXTINGUISHING MEDIA**

NOT ABAILABLE

**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 ABAILABLE

**LAND**

NOT ABAILABLE

**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 ELECTRICTIY 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/m<sup>3</sup> (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 PARTICULATE ABSORBER) IN CASE OF UNKNOWN CONCENTRATIONS OR URGENT RISK OF LIFE/HEALTH

AIR-LINE MASK(COMBINATION AIRLINE BREATHING MASK)

AIR-BREATHING APPARATUS(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**

95~105°C(SOFTENING POINT)

### **INITIAL BOILING POINT AND BOILING RANGE**

NOT AVAILABLE

### **FLASH POINT**

>270°C

### **EVAPORATION RATE**

NOT APPLICABLE

### **FLAMMABILITY(SOLID, GAS)**

NOT AVAILABLE

**UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS**

NOT AVAILABLE

(DUST EXPLSIVENESS : MINIMUM COMPLEXING ENGERGY(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**

30 cps(200°C)

**MOLECULAR WEIGHT**

APPROX. 1250 (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 IRRATATION 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 COROOSION/IRRITATION**

NOT CLASSIFIED

SKIN IRRITATION TEST : NOT IRRITATIVEW BASED ON PRIMARY IRITATION

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

OTHER HAZARD EFFECTS  
NOT AVAILABLE

---

**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 ROTERDAME 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](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](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](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 FOLL-  
OWING 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 BEL-  
IEF 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.