

MSDS

(MATERIAL SAFETY DATA SHEET)



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SECTION I : CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT

NAME

HIKOREZ R-1100S

CHEMICAL FAMILY

PETROLEUM HYDROCARBON RESIN

CAS NUMBER

64742-16-1

USE

ADDITIVE FOR ADHESIVES, PAINTS, COATINGS, INKS

MANUFACTURER

NAME

KOLON INDUSTRIES CHEMICAL ORGANIZATION

ADDRESS

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(82) 2 3677 6120 / (82) 2 3677 6191

EMERGENCY TELEPHONE

HEALTH, SAFETY & ENVIRONMENTAL INFORMATION

(82) 2 3677 6120

SECTION 2 : HAZARDS IDENTIFICATION

HMIS RATINGS (SCALE 0-4)

HEALTH = 1 FIRE =1 REACTIVITY = 0 (0 = NO HAZARD, 1 = SLIGHT HAZARD)

HEALTH EFFECT INFORMATION

INHALATION

INHALATION OF DUSTS OR VAPOR GENERATED BY HEATING MAY CAUSE
RESPIRATORY IRRITATION.

SKIN CONTACT

PROLONGED SKIN CONTACT MAY CAUSE IRRITATION, WHEN HEATED, THE
PRODUCT MAY CAUSE THERMAL BURNS.

EYE CONTACT

DUST/POWDER MAY IRRITATE EYE TISSUE.

INGESTION

NO INFORMATION AVAILABLE

SECTION 3 : COMPOSITION, INFORMATION ON INGREDIENTS

<u>COMPONENT</u>	<u>CAS NUMBER</u>	<u>Weight % Range</u>
PETROLEUM HYDROCARBON RESIN STABILIZER	64742-16-1 PROPRIETARY	>99.5 <0.5

SECTION 4 : FIRST AID MEASURES

INHALATION

TAKE PERSON OUT OF CONTAMINATED AREA AND INTO THE FRESH AIR

SKIN CONTACT

WASH WITH SOAP OR DETERGENT AND RINSE WITH WATER

EYE CONTACT

WASH ABUNDENTLY WITH WATER AND GET MEDICAL ATTENTION

INGESTION

GET MEDICAL ATTENTION IMMEDIATELY

SECTION 5 : FIRE FIGHTING MEASURES

FLASH POINT

>270°C

NFPA RATINGS (SCALE 0-4)

HEALTH = 1 FLAMMABILITY = 1 REACTIVITY = 0 (0 = MINIMAL, 1 = SLIGHT)

FLAMMABILITY CLASS(OSHA)

IIIB

HAZARDOUS COMBUSTION PRODUCTS

THERMAL DECOMPOSITON PRODUCTS MAY INCLUDE TOXIC OXIDES OF CARBON.

EXINGUISHING MEDIA

CARBON DIOXIDE, DRY POWDER, FOAM, SPARY WATER, SAND

SPECIAL FIRE-FIGHTING PROCEDURES

WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTION CLOTHING

SECTION 6 : ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

WEAR PROTECTIVE EQUIPMENT LISED AT SECTION 8

ENVIRONMENTAL PRECAUTIONS

DO NOT DRAIN OUT THE EFFLUENCE INTO THE SEWERAGE

METHOD OF CLEANING UP

RECOVERY

COLLECT THE PRODUCT IN A CONTAINER PENDING FUTURE

DISPOSAL

USE AUTHORIZED DISCHARGE OR BURN IN APPROVED INSTALLATION

SECTION 7 : HANDLING AND STORAGE

HANDLING

PREVENT THE INHALATION OF THE DUST OR VAPOR OF PRODUCTS
WEAR PROTECTIVE EQUIPMENT LISTED AT SECTION 8

STORAGE

KEEP AT TEMPERATURE NOT EXCEEDING 30°C
KEEP CONTAINER AWAY FROM THE SUN

SECTION 8 : EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE LIMITS

5 mg/m³ OSHA (RESPIRABLE DUST)
PROVIDE EXPLOSION PROOF VENTILATION TO MEET EXPOSURE LIMITS

PERSONAL PROTECTIVE EQUIPMENT**RESPIRATOR**

ATMOSPHERIC LEVELS SHOULD BE MAINTAINED BELOW EXPOSURE LIMITS
USE A NIOSH-MSHA APPROVED RESPIRATOR BASED ON CONTAMINATION
LEVELS IN THE WORK PLACE

EYE PROTECTION

WEAR SPLASH-PROOF OR DUST-RESISTANCE SAFETY GOGGLES

HAND PROTECTION

WEAR APPROPRIATE PROTECTIVE GLOVES

OTHER PROTECTIVE EQUIPMENT

WEAR RUBBERIZED APRON TO HELP PROTECT BODY FROM SPILLS OR
MOLTEN RESIN

WORK/HYGIENIC PRACTICES

EYE WASH STATIONS AND SHOWER FACILITIES SHOULD BE AVAILABLE FOR
EMPLOYEES BEFORE LEAVING WORK
KEEP PRODUCT AWAY FROM FOOD, BEVERAGES AND TOBACCO

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/ODOR

YELLOW, PELLETS, SOLID / PETROCHEMICAL ODOR

pH

NOT APPLICABLE

SOLUBILITY**IN WATER**

INSOLUBLE IN WATER

IN ORGANIC SOLVENT

SOLUBLE IN ORGANIC SOLVENT

FLASH POINT

>270°C

SOFTENING POINT

94-102°C

SPECIFIC GRAVITY

0.96-1.00

MINIMUM IGNITION ENERGY OF DUST

<3 mJ

SECTION 10 : STABILITY AND REACTIVITY

STABILITY

STABLE UNDER NORMAL STORAGE CONDITION

CONDITION TO AVOID

OPEN FLAMES, HIGH TEMPERATURES

MATERIAL TO AVOID

STRONG OXIDIZING AGENTS

HAZARDOUS DECOMPOSITION PRODUCTS

CARBON MONOOXIDE, CARBON DIOXIDE

HAZARDOUS POLYMERIZATION

WILL NOT OCCUR

SECTION 11 : TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

7g/kg ORAL-MAMMAL LD50 (LD50 > 2000mg/kg)

SKIN & EYE CONTACT

MAY CAUSE MECHANICAL EYE AND SKIN IRRITATION TO ALLERGIC PERSONS

SKIN IRRITATION TEST : PRIMARY IRRITATION INDEX (P.I.I) = 0

CARCINOGENICITY

NOT LISTED AS CARCINOGEN BY NTP, OSHA, IARC, NIOSH AND ACGIH

SECTION 12 : ECOLOGICAL INFORMATION

ECOTOXICITY

NO INFORMATION AVAILABLE

MOBILITY

NO INFORMATION AVAILABLE

PERSISTENCE AND DEGRADABILITY

NO INFORMATION AVAILABLE

BIOACCUMULATIVE POTENTIAL

NO INFORMATION AVAILABLE

OTHER ADVERSE EFFECT

NO INFORMATION AVAILABLE

SECTION 13 : DISPOSAL CONSIDERATIONS

OBSERVE ALL FEDERAL, STATE AND LOCAL REGULATIONS WHEN DISPOSING OF THIS PRODUCTS

SECTION 14 : TRANSPORT INFORMATION

IMPORMATION NOTE

SHIPPING DESCRIPTIONS MAY VARY BASED ON MODE OF TRANSPORT, QUANTITIES, PACKAGE SIZE, AND/OR ORIGIN AND DESTINATION. CONSULT YOUR COMPANY'S HAZARDOUS MATERIALS/DANGEROUS GOODS EXPERT FOR INFORMATION SPECIFIC TO YOUR SITUATION

DOT (USA)

CLASS NOT REGULATED

SEA - IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

CLASS NOT REGULATED

AIR - ICAO (INTERNATIONAL CIVIL AVIATION ORGANIZATION)

CLASS NOT REGULATED

SECTION 15 : REGULATION INFORMATION

EC LABELLING

NO LABELLING REQUIRED ACCORDING CRITERIA OF EUROPEAN DIRECTIVE 67/548/EEC AND ITS SUBSEQUENT AMENDMENTS

ROHS

HIKOREZ RESIN COMPLIES WITH DIRECTIVE 2002/96/EC RELATING TO ROHS(DIRECTIVE ON THE RESTRICTION OF THE USE OF HAZARDOUS SUBSTANCES IN ELECTRICAL AND ELECTRONIC EQUIPMENT)

SARA CLASSIFICATION

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

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(JAPANESS 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

PREPARED BY

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