

# MSDS

(MATERIAL SAFETY DATA SHEET)

## KOLON INDUSTRIES

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Gangseo-gu, Seoul, 07793, Korea  
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REVISION DATE : 04/JAN/2021, VERSION 3.

### SECTION I : IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

#### 1.1 PRODUCT IDENTIFIER

##### NAME OF THE PRODUCT

##### SUBSTANCE NAME:

DLP-2

##### CHEMICAL FAMILY :

PETROLEUM HYDROCARBON RESIN

##### CAS NUMBER:

64742-16-1

##### EC NUMBER:

265-116-8

##### REACH REGISTRATION NUMBER:

POLYMER EXEMPT

#### 1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST:

##### IDENTIFIED USES:

ADDITIVE FOR ADHESIVES, PAINTS, COATINGS, INKS

##### USES ADVISED AGAINST:

NONE KNOWN

#### 1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

##### COMPANY NAME:

KOLON INDUSTRIES

##### ADDRESS:

KOLON ONE&ONLY TOWER, 110, MAGOKDONG-RO  
GANGSEO-GU, SEOUL, 07793, KOREA

##### CONTACT TELEPHONE:

(82) 2 3677 6120

##### FAX:

(82) 2 3677 6191

##### E-MAIL ADDRESS:

[hjk8502@kolon.com](mailto:hjk8502@kolon.com)

#### 1.4 EMERGENCY TELEPHONE:

FOR EMERGENCY HEALTH, SAFETY&ENVIRONMENTAL INFORMATION

(82) 02 2199 1650

### SECTION 2 : HAZARDS IDENTIFICATION

#### 2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

##### ANNEX I OF DIRECTIVE 67/548/EEC

NOT CLASSIFIED

**(EC) NO 1272/2008 [CLP]**

NOT CLASSIFIED

**2.2 LABEL ELEMENTS**

**HAZARD PICTOGRAMS:**

NOT APPLICABLE

**SIGNAL WORD:**

NO SIGNAL WORD

**HAZARD STATEMENTS:**

NO APPLICABLE

**ADDITIONAL PRECAUTIONARY STATEMENTS:**

NOT APPLICABLE

**2.3 OTHER HAZARDS:**

NONE KNOWN

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**SECTION 3 : COMPOSITION, INFORMATION ON INGREDIENTS**  
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**3.1 SUBSTANCES**

**GENERAL INFORMATION**

<u>COMPONENT</u>	<u>CAS NUMBER</u>	<u>EC NO</u>	<u>Weight % Range</u>
PETROLEUM HYDROCARBON RE	64742-16-1	265-116-8	100

**CLASSIFICATION**

<u>CHEMICAL NAME</u>	<u>CLASSIFICATION</u>
PETROLEUM HYDROCARBON RESIN	DSD: THIS SUBSTANCE IS NOT CLASSIFIED ACCORDING TO DIRECTIVE 67/548/EEC. CLP: NOT CLASSIFIED

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**SECTION 4 : FIRST AID MEASURES**  
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**4.1 DESCRIPTION OF FIRST AID MEASURES**

**AFTER EYE CONTACT:**

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

**AFTER 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.

**AFTER INHALATION:**

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

**AFTER INGESTION:**

GET MEDICAL ATTENTION IF SWALLOWED AMOUNT OF SUBSTANCE.

**4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS**

**BOTH ACUTE AND DELAYED EFFECTS**

BURNS SHOULD BE TREATED AS THERMAL BURNS.THE MATERIAL WILL COME OFF AS HEALING OCCURS;THEREFORE, IMMEDIATE REMOVAL FROM THE SKIN

IS NOT NECESSARY.

#### **4.3 INDICATION OF IMMEDIATE MEDICAL ATTENTION AND NOTES FOR PHYSICIAN HAZARDS**

CONTACT WITH MOLTEN SUBSTANCE/PRODUCT MAY CAUSE SEVERE BURNS TO SKIN AND EYES.

#### **TREATMENT**

TREAT SYMPTOMATICALLY.

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### **SECTION 5 : FIRE FIGHTING MEASURES**

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#### **5.1 EXTINGUISHING MEDIA**

##### **SUITABLE EXTINGUISHING MEDIA**

DRY CHEMICAL, CO<sub>2</sub>, WATER SPRAY, REFULAR FOAM

##### **UNSUITABLE EXTINGUISHING MEDIA**

NOT ABAILABLE

#### **5.2 SPECIFIC HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE**

##### **THERMAL DECOMPOSITION PRODUCTS**

CARBON OXIDES, NITROGEN OXIDES

##### **FIRE AND EXPLOSIVE HAZARD**

IT COULD BE A SLIGHT FIRE HAZARD.

#### **5.3 ADVICE FOR FIREFIGHTERS**

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.

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### **SECTION 6 : ACCIDENTAL RELEASE MEASURES**

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#### **6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES**

KEEP AWAY FROM WATERWAYS AND SEWERS.  
ISOLATE EXPOSED AREA.  
KEEP UNATHORIZED PERSONNEL AWAY.  
MOVE MATERIALS TO SUITABLE CONTAINERS FOR LATER DISPOSAL.

#### **6.2 ENVIRONMENTAL PRECAUTIONS**

##### **ATMOSPHERE**

NOT ABAILABLE

##### **LAND**

NOT ABAILABLE

##### **UNDERWATER**

DO NOT RELEASE SPILLAGE INTO SEWERS.

#### **6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP**

##### **SMALL SPILL**

DISPOSE WASTE AS WASTE SYNTHESIS RESIN(GENERAL WASTE).

##### **LARGE SPILL**

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

## 6.4 REFERENCE TO OTHER SECTIONS

SEE ALSO SECTIONS 8 AND 13 OF THE SATETY DATA SHEET.

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## **SECTION 7 : HANDLING AND STORAGE**

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### 7.1 PRECAUTIONS FOR SAFE HANDLING

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

### 7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

KEEP AT TEMPERATURE NOT EXCEEDING 30oC  
KEEP CONTAINER AWAY FROM THE SUN

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## **SECTION 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION**

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### 8.1 CONTROL PARAMETERS

#### OCCUPATIONAL EXPOSURE LIMITS

##### ACGIH REGULATION

NOT AVAILABLE

##### BIOLOGICAL EXPOSURE INDEX

NOT AVAILABLE

##### OSHA REGULATION

NOT AVAILABLE

##### NIOSH REGULATION

NOT AVAILABLE

##### EU REGULATION

NOT AVAILABLE

#### OCCUPATIONAL EXPOSURE CONTROLS

NOT AVAILABLE

### 8.2 EXPOSURE CONTROLS

#### 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.

#### INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT

##### RESPIRATORY PROTECTION:

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

##### BODY PROTECTION:

WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT EXPOSURE OF SKIN.

#### ENVIRONMENTAL EXPOSURE CONTROLS:

NOT AVAILABLE

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**SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES**  
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**9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES**

**APPEARANCE**

**DESCRIPTION:**

LIQUID

**COLOR:**

DARK YELLOW

**ODOR:**

PETROCHEMICAL ODOR

**pH:**

NOT APPLICABLE

**FLASH POINT:**

>210°C

**FLAMMABILITY(SOLID, GAS):**

NOT AVAILABLE

**SOLUBILITY(ies):**

**IN WATER**

INSOLUBLE

**IN ORGANIC SOLVENT**

SOLUBLE

**Tg**

-10~10°C

**VISCOSITY:**

8,000~12,000 cps

**MOLECULAR WEIGHT:**

APPROX.300~400

**9.2 OTHER INFORMATION:**

**SURFACE TENSION:**

NOT AVAILABLE

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**SECTION 10 : STABILITY AND REACTIVITY**  
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**10.1 REACTIVITY/ CHEMICAL STABILITY/ POSSIBILITY OF HAZARDOUS REACTIONS:**

STABLE UNDER NORMAL TEMPERATURES AND PRESSURES.

IT WILL NOT OCCUR POLYMERIZATION REACTION.

**10.2 CONDITION TO AVOID:**

AVOID HEAT, FLAMES, SPARKS AND OTHER SOURCES OF IGNITION.

**10.3 INCOMPATIBLE MATERIALS:**

STRONG OXIDIZING AGENT

**10.4 HAZARDOUS DECOMPOSITION PRODUCTS:**

CARBON OXIDES, NITROGEN OXIDES

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**SECTION 11 : TOXICOLOGICAL INFORMATION**  
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**11.1 INFORMATION ON TOXICOLOGY EFFECTS**

**ACUTE TOXICITY**

**ORAL** : NOT CLASSIFIED ATEmix = 7,000mg/kg  
**DERMAL** : NOT CLASSIFIED (NOT AVAILABLE)  
**INHALATION(DUST/MIST)** : NOT CLASSIFIED(NOT AVAILABLE)  
**SKIN CORROSION/IRRITATION;**  
NOT CLASSIFIED  
SKIN IRRITATION TEST : NOT IRRITATIVEW BASED ON PRIMARY IRRITATION  
INDEX = 0)  
**SERIOUS EYE DAMAGE/IRRITATION;**  
NOT CLASSIFIED(NOT AVAILABLE)  
**RESPIRATORY SENSITIZATION;**  
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)

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**SECTION 12 : ECOLOGICAL INFORMATION**

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**12.1 TOXICITY**

**ACUTE TOXICITY**

**FISH**

NOT CLASSIFIED(NOT AVAILABLE)

**INVERTEBRATES**

NOT CLASSIFIED(NOT AVAILABLE)

**CRUSTACEA**

NOT CLASSIFIED(NOT AVAILABLE)

**ALGAE**

NOT CLASSIFIED(NOT AVAILABLE)

**CHRONIC TOXICITY**

**FISH**

NOT AVAILABLE

**CRUSTACEA**

NOT AVAILABLE

**ALGAE**

NOT AVAILABLE

## **12.2 PERSISTENCE AND DEGRADABILITY**

### **PERSISTENCE**

NOT AVAILABLE

### **DEGRADABILITY**

NOT AVAILABLE

## **12.3 BIOACCUMULATIVE POTENTIAL**

### **BIOACCUMULATION**

NOT AVAILABLE

### **BIODEGRADATION**

NOT AVAILABLE

## **12.4 MOBILITY IN SOIL**

NOT AVAILABLE

## **12.5 RESULTS OF PBT AND vPvB ASSESSMENT**

NOT AVAILABLE

## **12.6 OTHER ADVERSE EFFECTS**

NOT AVAILABLE

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## **SECTION 13 : DISPOSAL CONSIDERATIONS**

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### **13.1 WASTE TREATMENT METHODS**

#### **DISPOSAL METHODS**

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

#### **PRECAUTIONS FOR DISPOSAL**

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

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## **SECTION 14 : TRANSPORT INFORMATION**

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### **14.1 UN NUMBER:**

NOT APPLICABLE

### **14.2 UN PROPER SHIPPING NAME:**

NOT APPLICABLE

### **14.3 TRANSPORT HAZARD CLASS:**

NOT APPLICABLE

### **14.4 PACKING GROUP:**

NOT APPLICABLE

### **14.5 ENVIRONMENTAL HAZARDS:**

NOT APPLICABLE

### **14.6 IMPORMATION NOTE**

#### **IN CASE OF FIRE:**

NOT APPLICABLE

#### **IN CASE OF LEAKAGE:**

NOT APPLICABLE

### **14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE:**

NOT APPLICABLE

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**SECTION 15 : REGULATORY INFORMATION**  
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**15.1 SATETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE**

**EU REGULATORY INFORMATION**

**EU CLASSIFICATION**

**ANNEX I OF DIRECTIVE 67/548/EEC:**

**CLASSIFICATION:**

NOT REGULATED

**RISK PHRASES:**

NOT REGULATED

**SAFETY PHRASES:**

NOT REGULATED

**EU CLP 2008:**

**CLASSIFICATION:**

NOT REGULATED

**HAZARD STATEMENT CODES:**

NOT REGULATED

**PRECAUTIONARY STATEMENT CODES:**

NOT REGULATED

**EU SVHC LIST:**

NOT DETECTED.

**EU AUTHORIZATION LIST:**

NOT APPLICABLE

**EU RESTRICTION LIST:**

NOT APPLICABLE

**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.

**IECSC**(INVENTORY OF CHEMICAL SUBSTANCES MANUFACTURED OR IMPORTED IN CHINA)

ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON THE IECSC INVENTORY

**FOREIGN REGULATORY INFORMATION**



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

**U.S.A MANAGEMENT INFORMATION(CERCLA REGULATION 103 40CFR302.4):**  
NOT REGULATED

**U.S.A MANAGEMENT INFORMATION(EPCRA REGULATION 302 40CFR355.3):**  
NOT REGULATED

**U.S.A MANAGEMENT INFORMATION(EPCRA REGULATION 304 40CFR355.4):**  
NOT REGULATED

**U.S.A MANAGEMENT INFORMATION(EPCRA REGULATION 313 40CFR372.65):**  
NOT REGULATED

**15.2 CHEMICAL SAFETY ASSESSMENT:**

NONE.

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**SECTION 16 : OTHER INFORMATION**  
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**16.1 INDICATION OF CHANGES**

**VERSION**

Ver. 1

**REVISION DATE**

DECEMBER. 12TH. 2013

**16.2 ABBREVIATION AND ACRONYMS**

**CLP**=CLASSIFICATION LABELLING PACKAGING REGULATION; REGULATION (EC) NO 1272/2008

**CAS NO.**=CHEMICAL ABSTRACTS SERVICE NUMBER

**DNEL**=DERIVED NO EFFECT LEVEL

**EC NUMBER**=EINECS AND ELINCS NUMBER(SEE ALSO EINECS AND ELINECS)

**EU**=EUROPEAN UNION

**OSHA**=EUROPEAN AGENCY FOR SAFETY AND HEALTH AT WORK

**PBT**=PERSISTENT, BIOACCUMULATIVE AND TOXIC SUBSTANCE

**PNEC(s)**=PREDICTED NO EFFECT CONCENTRATION(S)

**REACH**=REGISTRATION, EVALUATION, AUTHORISATION AND RESTRICTION OF CHEMICALS REGULATION (EC) NO 1907/2006

**SVHC**=SUBSTANCE OF VERY HIGH CONCERN

**vPvB**=VERY PERSISTENT AND VERY BIOACCUMULATIVE

**16.3 KEY LITERATURE REFERENCE AND SOURCES FOR DATA**

KOREA OCCUPATIONAL HEALTH&SAFETY AGENCY(MSDS)

[\(\[HTTP://WWW.KOSHA.NET\]\(http://www.kosha.net\)\)](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 1999-6 OF KOREA FOOD AND DRUG ADMINISTRATION

KOREA TESTING AND RESEARCH INSTITUTE FOR CHEMICAL INDUSTRY HAZARDOUS CHEMICAL SUBSTANCE ANALYSIS DATA

M.I.E TEST REPORT OF CHILWORTH IN USA

THE MSDS DATA PUBLISHED BY ANTIOXIDANT MANUFACTURER

CHEMICAL RISK INFORMATION PLATFORM(CHRIP)

[\(\[HTTP://WWW.SAFE.NITE.GO.JP/ENGLISH/DB.HTML\]\(http://www.safe.nite.go.jp/english/db.html\)\)](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)

**16.4 CLASSIFICATION AND PROCEDURE USED TO DERIVE THE CLASSIFICATION FOR MIXTURES ACCORDING TO REGULATION (EC) NO 1272/2008**

[CLP]: NOT APPLICABLE

**16.5 RELEVANT R-PHRASES AND/OR H-STATEMENTS(NUMBER AND FULL TEXT)**

NOT APPLICABLE

**16.6 TRAINING ADVICE**

DO NOT HANDLE UNTIL ALL SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD.

**16.7 FURTHER INFORMATION**

THIS SAFETY DATA SHEET(SDS) IS BASED ON THE LEGAL PROVISIONS OF THE REACH REGULATION, AS AMENDED. ITS CONTENTS ARE INTENDED AS A GUIDE TO THE APPROPRIATE PRECAUTIONARY HANDLING OF THE MATERIAL. IT IS THE RESPONSIBILITY

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***ANNEX TO THE SDS***  
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**EXPOSURE ASSESSMENT**

HIKOTACK P-160 IS NOT CLASSIFIED FOR HUMAN HEALTH OR THE ENVIRONMENT, IS NOT A CMR AND IS NOT PBT OR vPvB. AN EXPOSURE ASSESSMENT AND THE CALCULATION OF RISK CHARACTERIZATION RATIOS ARE THEREFORE NOT REQUIRED.

THE INFORMATION CONTAINED HEREIN IS TO THE BEST OF OUR KNOWLEDGE AND BELIEF ACCURATE. SINCE MSDS 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.