

EHR PETROCHEMICAL COMPANY

MATERIAL SAFETY DATA SHEET LOW POLYMER

TRADE NAME: MANUFACTURER: LOW POLYMER (LP) MEHR PETROCHEMICAL COMPANY

1- PRODUCT IDENTIFICATION

LOW POLYMER

COMMON NAME:

USE OF THE SUBSTANCE /PREPARATION

MANUFACTURER'S NAME

ADDRESS

EMERGENCY TELEPHONE CAS NUMBER EC # CLASSIFICATION APPEARANCE ODOR USE AS ADDITIVES FOR MASTER BATCH, LUBRICANT AGENT, PAPER COATING, SPRAY COATING, EMULSION, PRINTING INK & ETC. MEHR PETROCHEMICAL COMPANY PHASE-2, PEROCHEMICAL SITE, PARS ENERGY SPECIAL ECONOMIC

ZONE, ASSALOUYEH, IRAN 0098 772 732 1093 - 6 CAS: 9002-88-4 POLYMER NOT CLASSIFIED NATURAL, SLIGHTLY WHITE COLOURED FLAKES HYDROCARBON ODOR

2- CHEMICAL DATA

CHEMICAL FAMILY CHEMICAL NAME

FORMULA/ COMPOSITION

POLYOLEFIN MIXTURE OF LOW MOLECULAR WEIGHT POLYETHYLENE, HEXANE, OLIGOMER AND WATER $-[C2H4]_n-n=350-7000$

3- PHYSICAL & CHEMICAL PROPERTIES

PHYSICAL STATE COLOUR ODOUR VAPOUR PRESSURE (KPA) BOILING POINT(760 mmHg) MELTING POINT(°C) BULK DENSITY (KG./M3) SPECIFIC GRAVITY LIQUID (H2O=1) VAPOUR (AIR=1) VISCOSITY (Cp) SOLIDIFIED FLAKE (AMBIENT), MOLTEN MATERIAL (> 90°C) WHITE HYDROCARBON ODOR 100 mm.HG at 15.8 °C (HEXANE) 68.8 (HEXANE) 85 ~115 (LOW POLYMER) 0.88 ~ 0.94 (LOW POLYMER)

0.66 at 20°C (HEXANE) 3 (HEXANE) APPROX. 4 ~5000 CP at 149°C (LOW POLYMER)

4- FIRE AND EXPLOSION DATA

140

FLASH POINT (°C) LOWER FLAMABLE LIMIT IN AIR UPPER FLAMABLE LIMIT IN AIR AUTO IGNITION TEMPRATURE (°C) EXTINGUISHING MEDIA CHEMICAL REACTIVITY

1.2 VOL%
7.5 VOL% (HEXANE)
233
CARBON DIOXIDE, POWDER TYPE OR FOAM TYPE EXTINGUISHER
GOOD REACTION WITH OXIDISING AGENTS AT HIGH TEMPERATURES



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5-HEALTH HAZARD INFORMATION

ROUTE OF ENTRY TARGET ORGANS SKIN CONTACT INHALATION EFFECTS FROM RESPIRATION RESPIRATORY SYSTEM NO EFFECT MAYBE INTOXICATED IF INHALE FOR LONG TIME

6- EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT	EYE WASHING WITH WATER DURING 15 MINUTES
SKIN CONTACT	AFTER WASHING THE SKIN, FIRST AID FOR A BURN OF SKIN
INGESTION CONTACT	MOVING TO THE PLACE OF FRESH AIR, KEEPING QUIET
NOTE TO PHYSICIAN	AFTER FIRST AID PROCEDURE, IMMEDIATELY GO TO HOSPITAL

7- SAFETY MEASURES

SPECIAL PROTECTION INFORMATION a) VENTILATION LOCAL EXHAST MECHANICAL GENERAL

 LOCAL EXHAST
 NECESSARY

 MECHANICAL GENERAL
 EXPLOSION PROOF TYPE

 b)
 RESPIRATION PROTECTION TYPE (RESPIRATOR FOR MOLTEN LOW POLYMER)

EYE PROTECTION TYPE HAND PROTECTION TYPE EYE GLASS HAND GLOVES

8- HANDLING AND STORAGE RECOMMENDATIONS AND PRECAUTIONS

STORAGE TEMPERATURE TRANSPORT TEMPERATURE	AMBIENT AMBIENT
LOADING / UNLOADING TEMPERATURE	AMBIENT
STORAGE / TRANSPORT PRESSURE	ATMOSPHERIC
GENERAL HANDLING	NO SMOKING, OPEN FLAMES OR SOURCES OF IGNITION IN HANDLING AND STORAGE AREA. GOOD HOUSKEEPING AND CONTROLLING OF DUSTS ARE NECESSARY FOR SAFE HANDLING OF PRODUCT. AVOID BREATHING PROCESS FUMES. USE WITH ADIQUATE VENTILATION . TO REDUCE THE POTENTIAL FOR DUST EXPLOSIONS, ELECTRICALLY BOND AND GROUND EQUIPMENT AND DO NOT PERMIT DUST TO ACCUMULATE. DUST CAN BE IGNITED BY STATIC DISCHARGE.
STORAGE	STORE IN ACCORDANCE WITH GOOD MANUFACTURING PRACTICES.



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9- EXPOSURE CONTROLS / PERSONAL PROTECTION		
EXPOSURE LIMITS EYE / FACE PROTECTION	NON ESTABLISHED USE SAFETY GLASSES. SAFETY GLASSES SHOULD BE CONSISTENT WITH DIRECTIVE 89/686/EEC CATEGORY 2. IF THERE IS A POTENTIAL FOR EXPOSURE TO PARTICLES WHICH COULD CAUSE EYE	
SKIN PROTECTION	NO PRECAUTIONS OTHER THAN CLEAN BODY -COVERING CLOTHING SHOULD BE NEEDED	
HAND PROTECTION	CHEMICAL PROTECTIVE GLOVES SHOULD NOT BE NEEDED WHEN HANDLING THIS MATERIAL. CONSISTENT WITH GENERAL HYGENIC PRACTICE FOR ANY MATERIAL, SKIN CONTACT SHOULD BE MINIMIZED. USE GLOVES WITH INSULATION FOR THERMAL PROTECTION, WHEN NEEDED.	
RESPIRATORY PROTECTION	USE AN APPROVED AIR-PURIFYING RESPIRATOR WHEN VAPOURS ARE GENERATED AT INCREASED TEMPERATURES OR PRESENT USE A/AN PARTICULATE FILTER, TYPE P2. WHEN COMBINATIONS OF VAPOURS, ACIDS, OR DUSTS/ MISTS ARE PRESENT USE AN ORGANIC VAPOUR CARTRIDGE WITH A PARTICULATE PRE-FILTER, TYPE AP2.	
LAND SPILL	SWEEPED UP SPILLED MATERIAL AND PLACE IN SUITABLE CONTAINERS FOR RECYCLE OR DISPOSAL. CONSULT AN EXPERT ON DISPOSAL OF RECOVERED MATERIAL AND ENSURE CONFORMITY TO LOCAL DISPOSAL REGULATIONS.	
WATER SPILL	STOP SOURCE IF POSSIBLE TO DO SO WITHOUT HAZARD. ADVICE AUTHORITIES OF POSSIBLE FLOATING SUBSTANCES. IF MATERIAL ENTERS WATER COURSES OF SEWERS. CONFINE IF POSSIBLE. SKIM FROM SURFACE. CONSULT AN EXPERT ON DISPOSAL OF ANY RECOVERED MATERIAL AND ENSURE CONFORMITY TO LOCAL DISPOSAL REGULATIONS.	
INGESTION	USE GOOD PERSONAL HYGENE. DO NOT CONSUME OR STORE FOOD IN THE WORK AREA. WASH HANDS BEFORE SMOKING OR EATING	
ENGINEERING CONTROLS/ VENTILATION	GOOD GENERAL VENTILATION SHOULD BE SUFFICIENT FOR MOST CONDITIONS. LOCAL EXHAUST VENTILATION MAY BE NECESSARY FOR	
10- TOXICOLOGICAL INFORMATION		
INGESTION	VERY LOW TOXICITY IF SWALLOWED. HARMFUL EFFECTS NOT ANTICIPATED FROM SWALLOWING SMALL AMOUNTS. MAY CAUSE CHOKING IF SWALLOWED.	
EYE CONTACT	SOLID OR DUST MAY CAUSE IRRITATION OR CORNEAL INJURY DUE TO MECHANICAL ACTION. VAPOUR MAY CAUSE EYE IRRITATION EXPERIENCED AS MILD DISCOMFORT AND REDNESS	
SKIN CONTACT	PROLONGED CONTACT IS ESSENTIALLY NON-IRRITATING TO SKIN . MECHANICAL INJURY ONLY. UNDER NORMAL PROCESSING CONDITIONES, MATERIAL IS HEATED TO ELEVATED TEMPRERATURE; CONTACT WITH THE MATERIAL MAY CAUSE THERMAL BURNS.	
SKIN ABSORBTION	NO ADVERSE EFFECTS ANTICIPATED BY SKIN ABSORPTION	
INHALATION	NO ADVERSE EFFECTS ANTICIPATED FROM SINGLE EXPOSURE TO DUST.VAPOURS/FUMES RELEASED DURING THERMAL PROCESSING MAY CAUSE RESPIRATORY IRRITATION	

DISPOSAL CONSIDRATIONS

FOR UNCONTAMINATED MATERIAL THE DISPOSAL OPTIONS INCLUDE MECHANICAL AND CHEMICAL RECYCLING OR ENERGY RECOVERY. IN SOME COUNTRIES LANDFILL IS ALSO ALLOWED. FOR CONTAMINATED MATERIAL THE OPTIONS REMAIN THE SAME, ALTHOUGH ADDITIONAL EVALUATION IS REQUIRED. FOR ALL COUNTRIES THE DISPOSAL METHODS MUST BE IN COMPLIANCE WITH NATIONALAND PROVINICAL LAWS AND ANY MUNICIPAL OR LOCAL BY-LAWS. ALL DISPOSAL METHODS MUST BE IN COMPLIANCE WITH THE EU FRAMEWORK DIRECTIVES 91/156/EEC, 91/689/EEC AND THEIR SUBSEQUENT ADAPTIONS, AS IMPLEMENTED IN NATIONAL LAWS ANDREGULATIONS, AS WELL AS EU DIRECTIVES DEALING WITH PRIORITY WASTE STREAMS. TRANSBOUNDRY SHIPMENT OF WASTES MUST BE IN COMPLIANCE WITH EU REGULATION 259/93 AND SUBSEQUENT MODIFICATIONS.