EXCEPARL MS Kao Corporation

SAFETY DATA SHEET

[1.PRODUCT AND COMPANY IDENTIFICATION]

| [1.PRODUCT AND COMPANY IDENTIFICA | (HON] | | | | |
|---|--|--|--|--|--|
| PRODUCT NAME | : EXCEPARL MS | | | | |
| SUPPLIER | : Kao Corporation | | | | |
| ADDRESS | : 1-3,Bunka 2-chome,Sumida-ku,Tokyo 131-8501 Japan | | | | |
| DIVISION | : Global Chemical Business | | | | |
| TELEPHONE NUMBER | : 81-3-5630-7700 | | | | |
| FAX NUMBER | : 81-3-5630-7889 | | | | |
| E-MAIL ADDRESS | : chemical@kao.co.jp | | | | |
| EMERGENCY TELEPHONE NUMBER | : 81-3-5630-7700 | | | | |
| RECOMMENDED USE | : | | | | |
| AND RESTRICTIONS ON USE | | | | | |
| [2.HAZARDS IDENTIFICATION] | | | | | |
| GHS CLASSIFICATION | | | | | |
| PHYSICAL AND CHEMICAL HAZARDS | : Not classified | | | | |
| HEALTH HAZARDS | | | | | |
| | : Classification not possible | | | | |
| | : Classification not possible | | | | |
| | : Not applicable(Vapours) | | | | |
| | : Classification not possible | | | | |
| | : Classification not possible | | | | |
| IRRITATION | | | | | |
| RESPIRATORY SENSITIZATION | : Classification not possible | | | | |
| SKIN SENSITIZATION | : Classification not possible | | | | |
| GERM CELL MUTAGENICITY | : Classification not possible | | | | |
| CARCINOGENICITY | : Classification not possible | | | | |
| REPRODUCTIVE TOXICITY | : Classification not possible | | | | |
| SPECIFIC TARGET ORGAN TOXICITY | , | | | | |
| - SINGLE EXPOSURE | : Classification not possible | | | | |
| - REPEATED EXPOSURE | : Classification not possible | | | | |
| ASPIRATION HAZARD | : Classification not possible | | | | |
| ENVIRONMENTAL HAZARDS | | | | | |
| HAZARDOUS TO THE AQUATIC ENVI | RONMENT | | | | |
| | : Not classified | | | | |
| | : Classification not possible | | | | |
| | : Classification not possible | | | | |
| | | | | | |
| GHS LABEL ELEMENTS PICTOGRAMS OR SYMBOLS | · Net englischle | | | | |
| SIGNAL WORD | Not applicable Not applicable | | | | |
| HAZARD STATEMENTS | : Not applicable | | | | |
| PRECAUTIONARY STATEMENTS | | | | | |
| | : Wash thoroughly after handling. | | | | |
| | If needed, use personal protective equipment as required. | | | | |
| RESPONSE | : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. | | | | |
| | IF ON SKIN: Gently wash with plenty of water and soap. | | | | |
| STORAGE | Call a POISON CENTER or doctor if you feel unwell. | | | | |
| | : Store in well-ventilated place. | | | | |
| DISPOSAL | | | | | |

EXCEPARL MS Kao Corporation

| SAFE HANDLING ADVICE : | Refer to SDS. | | | | |
|--|--|--|--|--|--|
| [3.COMPOSITION / INFORMATION ON INGREDIENTS] | | | | | |
| SUBSTANCE OR MIXTURE : | Substance | | | | |
| INGREDIENTS AND CONCENTRATION : RANGE | Fatty acids, C12-18(stearate)Me esters | | | | |
| CAS RN : | 68937-84-8 | | | | |
| [4.FIRST-AID MEASURES] | | | | | |
| IN CASE OF INHALATION : | Remove person to fresh air and keep comfortable for breathing. | | | | |
| IN CASE OF SKIN CONTACT : | Gently wash with plenty of soap and water. | | | | |
| IN CASE OF EYE CONTACT : | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. | | | | |
| IN CASE OF INGESTION : | Call a POISON CENTER or doctor if you feel unwell. | | | | |
| [5.FIRE-FIGHTING MEASURES] | | | | | |
| EXTINGUISHING MEDIA : | Powder, alcohol-resistant foam, carbon dioxide, sand | | | | |
| NOT SUITABLE EXTINGUISHING : MEDIA | No information available | | | | |
| SPECIFIC HAZARDS : | No information available | | | | |
| SPECIFIC METHODS : | Keep away from sources of ignition and use appropriate extinguishing media.Fight fire from upwind position if possible. | | | | |
| PROTECTION OF FIRE FIGHTERS : | Use goggles in combination with dust mask, and other protections as appropriate to situation. | | | | |
| [6.ACCIDENTAL RELEASE MEASURES] | | | | | |
| PERSONAL PRECAUTIONS, : PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURE | Use goggles and protective gloves. Large spills : Remove person to safety. Ensure adequate ventilation. | | | | |
| ENVIRONMENTAL PRECAUTIONS : | Do not discharge into the drains, surface waters or ground water directly. | | | | |
| METHODS FOR CLEANING UP : | Cool down to solid in case of melt(be careful of heat), and then sweep or vacuum spilled materials to drums or containers. | | | | |
| PREVENTION OF SECONDARY : HAZARDS | Keep away from sources of ignition and prepare extinguishing media. | | | | |
| [7.HANDLING AND STORAGE] | | | | | |
| HANDLING | | | | | |
| TECHNICAL MEASURES : | Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. | | | | |
| PRECAUTIONS : | Keep away from source of ignition. | | | | |
| SAFE HANDLING ADVICE : | Use an adequate ventilation. | | | | |
| | Wash thoroughly after handling. If needed, use personal protective equipment as required. | | | | |
| STORAGE | in needed, use personal protective equipment as required. | | | | |
| SUITABLE STORAGE CONDITIONS : | Store container tightly closed in well-ventilated place. | | | | |
| Sonable Storage conditions . | Keep away from source of ignition. | | | | |
| SAFE PACKAGING MATERIALS : | No information available | | | | |
| [8.EXPOSURE CONTROLS / PERSONAL PROTECTION] | | | | | |
| ENGINEERING MEASURES : | Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. | | | | |
| LIMIT VALUES | Use an adequate ventilation. | | | | |
| | | | | | |

| [9.PHYSICAL AND CHEMICAL PROPERTIES] APPEARANCE PHYSICAL STATE : Solid COLOUR :: Slightly characteristic odour pH :: 6.3 (5% available(10% ethanol in water)) SPECIFIC TEMPERATURES / TEMPERATURE RANGESS AT WHICH CHANGES IN PHYSICAL STATE OCCUR BOILING POINT : No information available MELTING POINT :: N0 information available MELTING POINT :: 190 °C (374 °F) (CLEVELAND open cup method) FLAMMABILITY OR EXPLOSIVE PROPERTIES FLAMMABILITY OR EXPLOSIVE UPPER LIMIT : No information available VAPOUR PRESSURE : No information available UAPOUR PRESSURE : No information available DENSITY :: No information available VAPOUR PRESSURE : No information available DENSITY :: No information available VAPOUR PRESSURE : No information available DENSITY :: No information available DENSITY :: No information available DENSITY :: No information available OCOLUBILITY :: Soluble in ethanol or n-hexane. Soluble in xylene DECOMPOSITION TEMPERATURE :: No information available DECOMPOSITION TEMPERATURE :: No information available UATOOLOGNTION TEMPERATURE :: No information available DECOMPOSITION TEMPERATURE :: No information available UATOOLOGNTION TEMPERATURE :: No information available UATOOLOGNTION TEMPERATURE :: No information available UCODOUR THRESHOLD :: No information available USOLUBILITY :: 7.3 mPa.s (40 °C) (104 °F) | ACGIH (TLV) OSHA (PEL) PERSONAL PROTECTIVE EQUIPMENT RESPIRATORY PROTECTION HAND PROTECTION EYE PROTECTION SKIN AND BODY PROTECTION HYGIENE MEASURES | Not established Not established Use as appropriate to situation. Rubber gloves Safety glasses Full-body suit No information available |
|--|---|---|
| APPEARANCE PHYSICAL STATE : Solid COLOUR : White ODOUR : Slightly characteristic odour pH : 6.3 (5% available(10% ethanol in water)) SPECIFIC TEMPERATURES / TEMPERATURE RANGES AT WHICH CHANGES IN PHYSICAL STATE OCCUR BOILING POINT : 10 °C (374 °F) (CLEVELAND open cup method) FLASH POINT : 10 °C (374 °F) (CLEVELAND open cup method) FLASH POINT : 10 °C (374 °F) (CLEVELAND open cup method) FLAMMABILITY OR EXPLOSIVE PROPERTIES FLAMMABILITY OR EXPLOSIVE : UPPER LIMIT : No information available VAPOUR PRESSURE : No information available VAPOUR PRESSURE : No information available UAPOUR DENSITY : No information available DENSITY (SPECIFIC GRAVITY) : 0.8424 g/mL (50 °C) (122 °F) 0.8352 g/mL (50 °C) (122 °F) 0.8352 g/mL (50 °C) (140 °F) 0.8424 g/mL (50 °C) (122 °F) 0.8352 g/mL (50 °C) (122 °F) 0.8424 g/mL (50 °C) (140 °F) 0.8424 g/mL (50 °C) (140 °F) 0.8424 g/mL (50 °C) (140 °F) 0.8424 g/mL (50 °C) (104 °F) 0.8444 g/mL (50 °C) (104 °F) 1.8444 000UR THRESHOLD : No information available 0100 | 9.PHYSICAL AND CHEMICAL PROPERTI | ES] |
| COLOUR : White ODOR : Silghtly characteristic odour pH : 6.3 (5% available(10% ethanol in water)) SPECIFIC TEMPERATURES / TEMPERATURE RANGES AT WHICH CHANGES IN PHYSICAL STATE OCCUR BOILING POINT : No information available BOILING POINT : 31 - 35 °C (87.8 - 95 °F) FLAMMABILITY OR EXPLOSIVE PROPERTIES : 190 °C (374 °F) (CLEVELAND open cup method) FLAMMABILITY OR EXPLOSIVE PROPERTIES : WAPOUR PRESSURE : No information available VAPOUR PRESSURE : No information available : LOWER LIMIT : No information available VAPOUR PRESSURE : No information available : DENSITY (SPECIFIC GRAVITY) : 0.8426 g/mL (60 °C) (104 °F) . OLUBILITY : No information available : Soluble in ethanol or n-hexane. . . Soluble in sylene PARTITION COEFFICIENT: n- : No information available : | - | |
| ODOUR :: Siightly characteristic odour pH :: 6.3 (5% available(10% ethanol in water)) SPECIFIC TEMPERATURES / TEMPERATURE RANGES AT WHICH CHANGES IN PHYSICAL STATE OCCUR MELTING POINT : No information available MELTING POINT : No information available FLASH POINT : 190 °C (374 °F) (CLEVELAND open cup method) FLAMMABILITY OR EXPLOSIVE PROPERTIES : 190 °C (374 °F) (CLEVELAND open cup method) FLAMMABILITY OR EXPLOSIVE ROPPERTIES : No information available LOWER LIMIT : No information available VAPOUR PRESSURE : No information available LOWER LIMIT : No information available VAPOUR DENSITY : No information available OC (104 °F) SOLUBILITY : No information available OC (140 °F) SOLUBILITY : Soluble in sylene Soluble in sylene PARTITION COEFFICIENT: n- : No information available EVAPORATION RATE No information available DECOMPOSITION TEMPERATURE : No information available EVAPORATION RATE No information available <td>PHYSICAL STATE</td> <td>: Solid</td> | PHYSICAL STATE | : Solid |
| pH : 6.3 (5% available(10% ethanol in water)) SPECIFIC TEMPERATURES / TEMPERATURE RANGES AT WHICH CHANGES IN PHYSICAL STATE OCCUR BOILING POINT : No information available MELTING POINT : No information available MELTING POINT : 11 - 35 °C (87.8 - 95 °F) FLAMMABILITY OR EXPLOSIVE PROPERTIES : 190 °C (374 °F) (CLEVELAND open cup method) FLAMMABILITY OR EXPLOSIVE : UPPER LIMIT : No information available LOWER LIMIT : No information available VAPOUR PRESSURE : No information available VAPOUR DENSITY : No information available VAPOUR DENSITY : No information available 0.8426 g/mL (40 °C) (104 °F) OB322 g/mL (: Soluble in sylene Soluble in sylene Soluble in sylene PARTITION COEFFICIENT: n- : No information available OCOL (104 °F) OUVENT SOLUBILITY : Soluble in sylene Soluble in sylene Soluble in sylene PARTITION COEFFICIENT: n- : No information available EVAPORATION TEMPERATURE : No in | COLOUR | : White |
| SPECIFIC TEMPERATURES / TEMPERATURE RANGES AT WHICH CHANGES IN PHYSICAL STATE OCCUR BOILING POINT : No information available MELTING POINT : 31 - 35 °C (87.8 - 95 °F) FLASH POINT : 190 °C (374 °F) (CLEVELAND open cup method) FLAMMABILITY OR EXPLOSIVE PROPERTIES FLAMMABILITY OR EXPLOSIVE PROPERTIES FLAMMABILITY OR EXPLOSIVE : UPPER LIMIT : No information available VAPOUR PRESSURE : No information available VAPOUR DENSITY : No information available DENSITY (SPECIFIC GRAVITY) : 0.8496 g/mL (40 °C) (104 °F) 0.8424 g/mL (50 °C) (122 °F) 0.8352 g/mL (60 °C) (140 °F) 0.8424 g/mL (50 °C) (122 °F) 0.8352 g/mL (60 °C) (140 °F) SOLUBILITY : Insoluble SOLUBILITY : Insoluble SOLUBILITY : No information available OCTANOL / WATER (log Pow) : No information available AUTO-IGNITION TEMPERATURE : No information available ODOUR THRESHOLD : No information available ODOUR THRESHOLD : No information available VISCOSITY : 7.3 mPa.s (50 °C) (122 °F) 0.9 mPa.s (50 °C) (122 °F) 5.9 mPa.s (50 °C) (122 °F) | ODOUR | : Slightly characteristic odour |
| AT WHICH CHANGES IN PHYSICAL STATE OCCUR BOLING POINT : No information available MELTING POINT : 31 - 35 °C (87.8 - 95 °F) FLASH POINT : 100 °C (374 °F) (CLEVELAND open cup method) FLAMMABILITY OR EXPLOSIVE PROPERTIES FLAMMABILITY OR EXPLOSIVE EXPLOSIVE : UPPER LIMIT : No information available LOWER LIMIT : No information available VAPOUR PRESSURE : No information available VAPOUR PRESSURE : No information available DENSITY (SPECIFIC GRAVITY) : No information available DENSITY (SPECIFIC GRAVITY) : 0.8496 g/mL (40 °C) (104 °F) 0.8322 g/mL (50 °C) (122 °F) 0.8322 g/mL (60 °C) (140 °F) SOLUBILITY WATER SOLUBILITY : Insoluble SOLVENT SOLUBILITY : No information available PARTITION COEFFICIENT: n- OCTANOL / WATER (log Pow) AUTO-IGNITION TEMPERATURE : No information available DECOMPOSITION TEMPERATURE : No information available DECOMPOSITION TEMPERATURE : No information available EVAPORATION RATE : No information available EVAPORATION RATE : No information available VISCOSITY : 7.3 mPa.s (40 °C) (104 °F) 5.9 mPa.s (50 °C) (122 °F) 4.9 mPa.s (50 °C) (122 °F) 4.9 mPa.s (50 °C) (122 °F) 5.9 mPa.s (50 °C) (122 °F) 4.9 mPa.s (50 °C) (122 °F) 5.9 mPa.s (50 °C) (122 °F) 5.9 mPa.s (50 °C) (122 °F) 4.9 mPa.s (50 °C) (122 °F) 4.9 mPa.s (50 °C) (122 °F) 5.9 mPa.s (50 °C) (122 °F) 5.9 mPa.s (50 °C) (122 °F) 4.9 mPa.s (50 °C) (122 °F) 5.9 mPa.s (50 °C) (122 °F) 4.9 mPa.s (50 °C) (122 °F) 5.9 mPa.s (50 °C) (122 °F) 5.9 mPa.s (50 °C) (122 °F) 4.9 mPa.s (50 °C) (140 °F) 5.9 mPa.s (50 °C) (140 °F) 6.9 mPa.s (50 °C) (140 °F) 7.9 mPa.s | рН | : 6.3 (5% available(10% ethanol in water)) |
| MELTING POINT : 31 - 35 °C (87.8 · 95 °F) FLASH POINT : 190 °C (374 °F) (CLEVELAND open cup method) FLAMMABILITY OR EXPLOSIVE PROPERTIES : UPPER LIMIT : No information available LOWER LIMIT : No information available VAPOUR PRESSURE : UPPER LIMIT : No information available LOWER LIMIT : No information available VAPOUR DENSITY : No information available LOWER LIMIT : No information available DENSITY (SPECIFIC GRAVITY) : 0.8496 g/mL (40 °C) (104 °F) SOLUBILITY : 0.8424 g/mL (60 °C) (140 °F) SOLUBILITY : Insoluble Soluble in ethanol or n-hexane. Soluble in xylene PARTITION COEFFICIENT: n- : No information available - - - DECOMPOSITION TEMPERATURE : No information available - - - - - - - - - - - - - - - - - - - | | |
| FLASH POINT : 190 °C (374 °F) (CLEVELAND open cup method) FLAMMABILITY OR EXPLOSIVE PROPERTIES FLAMMABILITY OR EXPLOSIVE : UPPER LIMIT : No information available LOWER LIMIT : No information available VAPOUR PRESSURE : No information available VOWER LIMIT : No information available VAPOUR DENSITY : No information available 0 °C) (104 °F) DENSITY (SPECIFIC GRAVITY) : 0.8496 g/mL (40 °C) (140 °F) 0.8424 g/mL (50 °C) (122 °F) 0.8352 g/mL (60 °C) (140 °F) SOLUBILITY : Insoluble Soluble in ethanol or n-hexane. Soluble in sylene PARTITION COEFFICIENT: n- : No information available OCTANOL / WATER (log Pow) AUTO-IGNITION TEMPERATURE : No information available ODOUR THRESHOLD : No information available EVAPORATION RATE : No information available : 104 °F) : : VISCOSITY : 7.3 mPa.s (40 °C) (104 °F) : : : : VISCOSITY : 7.3 mPa.s (40 °C) (| BOILING POINT | : No information available |
| FLAMMABILITY OR EXPLOSIVE LIMITS : UPPER LIMIT : No information available WAPOUR PRESSURE : UPPER LIMIT : No information available No information available LOWER LIMIT : No information available VAPOUR DENSITY : No information available No information available DENSITY (SPECIFIC GRAVITY) : 0.8496 g/mL (40 °C) (104 °F) 0.8424 g/mL (50 °C) (122 °F) 0.8352 g/mL (60 °C) (140 °F) SOLUBILITY : Insoluble WATER SOLUBILITY : Insoluble SOLUBILITY : Insoluble SOLUBILITY : Soluble in ethanol or n-hexane. Soluble in xylene PARTITION COEFFICIENT: n- OCTANOL / WATER (log Pow) : No information available AUTO-IGNITION TEMPERATURE : No information available DECOMPOSITION TEMPERATURE : No information available EVAPORATION RATE : No information available FLAMMABILITY (SOLID,GAS) : No information available VISCOSITY : No information available VISCOSITY : No information available IO.STABILITY AND REACTIVITY] : No information available CHEMICAL STABILITY : No information available IO.STABILITY OF HAZARDOUS : Low reactivity. CONDITIONS TO AVOID : No information available | | |
| FLAMMABILITY OR EXPLOSIVE LIMITS : UPPER LIMIT : No information available LOWER LIMIT : No information available VAPOUR PRESSURE : No information available | | |
| LIMITSavailableVAPOUR PRESSURE:No information availableVAPOUR DENSITY:No information availableDENSITY (SPECIFIC GRAVITY):0.8496 g/mL (40 °C) (104 °F)8424 g/mL (::::122 °F)8352 g/mL (:::::SOLUBILITY:Insoluble::::WATER SOLUBILITY::Insoluble:::SOLVENT SOLUBILITY::Soluble in ethanol or n-hexane. Soluble in xylene:::PARTITION COEFFICIENT: n- OCTANOL / WATER (Iog Pow):No information available::AUTO-IGNITION TEMPERATURE:No information available::DECOMPOSITION TEMPERATURE:No information available::EVAPORATION RATE:No information available::FLAMMABILITY (SOLID,GAS):No information available::VISCOSITY::No information available::VISCOSITY:No information available:::OTHER DATA:No information available:::(IO.STABILITY AND REACTIVITY]:No information available:::(HEMICAL STABILITY AND REACTIVITY]:No information available:::OTHER DATA:No information available::::POSSI | | |
| VAPOUR DENSITY:No information availableDENSITY (SPECIFIC GRAVITY):0.8496 g/mL (40 °C) (104 °F)0.8424 g/mL (50 °C) (122 °F)0.8352 g/mL (60 °C) (140 °F)SOLUBILITY:InsolubleWATER SOLUBILITY:Soluble in ethanol or n-hexane. Soluble in xylenePARTITION COEFFICIENT: n- OCTANOL / WATER (BOPOW):No information availableAUTO-IGNITION TEMPERATURE:No information availableDECOMPOSITION TEMPERATURE:No information availableODQUR THRESHOLD:No information availableEVAPORATION RATE:No information availableFLAMMABILITY (SOLID,GAS):No information availableVISCOSITY:7.3 mPa.s (60 °C) (104 °F)OTHER DATA:No information available[10.STABILITY AND REACTIVITY]:No information availableCHEMICAL STABILITY:No information availablePOSSIBILITY OF HAZARDOUS REACTIONS:No information availableCONDITIONS TO AVOID:No information available | | available |
| DENSITY (SPECIFIC GRAVITY):0.8496 g/mL (40 °C) (104 °F) 122 °F) 0.8352 g/mL (60 °C) (122 °F) 140 °F)SOLUBILITY:Insoluble | VAPOUR PRESSURE | : No information available |
| 0.8424 g/mL (50 °C) (122 °F) 0.8352 g/mL (60 °C) (140 °F) SOLUBILITY : Insoluble WATER SOLUBILITY : Insoluble SOLVENT SOLUBILITY : Soluble in ethanol or n-hexane. Soluble in xylene PARTITION COEFFICIENT: n- OCTANOL / WATER (log Pow) : No information available AUTO-IGNITION TEMPERATURE : No information available DECOMPOSITION TEMPERATURE : No information available ODOUR THRESHOLD : No information available EVAPORATION RATE : No information available VISCOSITY : 7.3 mPa.s (40 °C) (104 °F) .5.9 mPa.s (50 °C) (122 °F) 4.9 mPa.s (60 °C) (140 °F) OTHER DATA : No information available [10.STABILITY AND REACTIVITY] : No information available CHEMICAL STABILITY : No information available IO.STABILITY AND REACTIVITY] : No information available | VAPOUR DENSITY | |
| SOLUBILITY WATER SOLUBILITY : Insoluble WATER SOLUBILITY : Soluble in ethanol or n-hexane. Soluble in xylene PARTITION COEFFICIENT: n- OCTANOL / WATER (log Pow) : No information available AUTO-IGNITION TEMPERATURE : No information available DECOMPOSITION TEMPERATURE : No information available ODOUR THRESHOLD : No information available EVAPORATION RATE : No information available FLAMMABILITY (SOLID,GAS) : No information available VISCOSITY : 7.3 mPa.s (40 °C) (104 °F) 5.9 mPa.s (50 °C) (122 °F) 4.9 mPa.s (60 °C) (140 °F) 5.9 mPa.s (50 °C) (140 °F) OTHER DATA : No information available [10.STABILITY AND REACTIVITY] : No information available CHEMICAL STABILITY : No information available POSSIBILITY OF HAZARDOUS REACTIONS : No information available No self-reactivity. : No self-reactivity. CONDITIONS TO AVOID : No information available | DENSITY (SPECIFIC GRAVITY) | 0.8424 g/mL (50 °C) (122 °F) |
| SOLVENT SOLUBILITY:Soluble in ethanol or n-hexane. Soluble in xylenePARTITION COEFFICIENT: n- OCTANOL / WATER (log Pow):No information availableAUTO-IGNITION TEMPERATURE:No information availableDECOMPOSITION TEMPERATURE:No information availableODOUR THRESHOLD:No information availableEVAPORATION RATE:No information availableFLAMMABILITY (SOLID,GAS):No information availableVISCOSITY:7.3 mPa.s (40 °C) (104 °F).5.9 mPa.s (50 °C) (122 °F).4.9 mPa.s (60 °C) (140 °F)OTHER DATA:No information available[10.STABILITY AND REACTIVITY]:No information availableCHEMICAL STABILITY:No information availablePOSSIBILITY OF HAZARDOUS:No information availableNo self-reactivity.No self-reactivity.CONDITIONS TO AVOID:No information available | SOLUBILITY | |
| PARTITION COEFFICIENT: n- OCTANOL / WATER (log Pow):No information availableAUTO-IGNITION TEMPERATURE:No information availableDECOMPOSITION TEMPERATURE:No information availableDECOMPOSITION TEMPERATURE:No information availableDECOMPOSITION RATE:No information availableEVAPORATION RATE:No information availableFLAMMABILITY (SOLID,GAS):No information availableVISCOSITY:? 7.3 mPa.s (40 °C) (104 °F)S.9 mPa.s (60 °C) (122 °F)4.9 mPa.s (60 °C) (140 °F)OTHER DATA:No information available[10.STABILITY AND REACTIVITY]:No information availablePOSSIBILITY OF HAZARDOUS REACTIONS:No information availableNo self-reactivity. No self-reactivity.:No information availableCONDITIONS TO AVOID:No information available | WATER SOLUBILITY | : Insoluble |
| PARTITION COEFFICIENT: n- OCTANOL / WATER (log Pow): No information availableAUTO-IGNITION TEMPERATURE DECOMPOSITION TEMPERATURE ODOUR THRESHOLD: No information availableVISCOMPOSITION TEMPERATURE EVAPORATION RATE FLAMMABILITY (SOLID,GAS): No information availableVISCOSITY: No information available(10.STABILITY AND REACTIVITY]: No information availableCHEMICAL STABILITY: No information availablePOSSIBILITY OF HAZARDOUS REACTIONS: Low reactivity No self-reactivity.NO self-reactivity.: No information availableCONDITIONS TO AVOID: No information available | SOLVENT SOLUBILITY | |
| DECOMPOSITION TEMPERATURE ODOUR THRESHOLD: No information availableEVAPORATION RATE: No information availableFLAMMABILITY (SOLID,GAS): No information availableVISCOSITY: 7.3 mPa.s (5.9 mPa.s (4.9 mPa.s (60 °C) (140 °F)OTHER DATA: No information available[10.STABILITY AND REACTIVITY]CHEMICAL STABILITY REACTIONS: No information availableVISCOSIFY: No information availableIO.STABILITY OF HAZARDOUS REACTIONS: No information availableNo self-reactivity.: No information availableCONDITIONS TO AVOID: No information available | | - |
| ODOUR THRESHOLD : No information available EVAPORATION RATE : No information available FLAMMABILITY (SOLID,GAS) : No information available VISCOSITY : 7.3 mPa.s (40 °C) (104 °F) 5.9 mPa.s (50 °C) (122 °F) 4.9 mPa.s (60 °C) (140 °F) OTHER DATA : No information available ************************************ | AUTO-IGNITION TEMPERATURE | : No information available |
| EVAPORATION RATE FLAMMABILITY (SOLID,GAS): No information availableVISCOSITY: No information availableVISCOSITY: 7.3 mPa.s (5.9 mPa.s (4.9 mPa.s (60 °C) (140 °F)OTHER DATA: No information available[10.STABILITY AND REACTIVITY]CHEMICAL STABILITY POSSIBILITY OF HAZARDOUS REACTIONS: No information available: No self-reactivity. No self-reactivity.CONDITIONS TO AVOID: No information available | DECOMPOSITION TEMPERATURE | : No information available |
| FLAMMABILITY (SOLID,GAS): No information availableVISCOSITY: 7.3 mPa.s (40 °C) (104 °F)5.9 mPa.s (50 °C) (122 °F)4.9 mPa.s (60 °C) (140 °F)OTHER DATA: No information available[10.STABILITY AND REACTIVITY]: No information availableCHEMICAL STABILITY: No information availablePOSSIBILITY OF HAZARDOUS: Low reactivityREACTIONS: No self-reactivity.CONDITIONS TO AVOID: No information available | ODOUR THRESHOLD | : No information available |
| VISCOSITY:7.3 mPa.s (5.9 mPa.s (5.9 mPa.s (60 °C) (122 °F) 60 °C) (140 °F)OTHER DATA:No information available[10.STABILITY AND REACTIVITY] CHEMICAL STABILITY POSSIBILITY OF HAZARDOUS REACTIONS:No information availableImage: No self-reactivity. No self-reactivity.:No information availableCONDITIONS TO AVOID:No information available | EVAPORATION RATE | : No information available |
| 5.9 mPa.s (50 °C) (122 °F) 4.9 mPa.s (60 °C) (140 °F) OTHER DATA : No information available [10.STABILITY AND REACTIVITY] : No information available CHEMICAL STABILITY : No information available POSSIBILITY OF HAZARDOUS REACTIVITY] : Low reactivity No self-reactivity. : No self-reactivity. CONDITIONS TO AVOID : No information available | FLAMMABILITY (SOLID,GAS) | : No information available |
| OTHER DATA : No information available [10.STABILITY AND REACTIVITY] CHEMICAL STABILITY : No information available POSSIBILITY OF HAZARDOUS : Low reactivity REACTIONS : No self-reactivity. CONDITIONS TO AVOID : No information available | VISCOSITY | 5.9 mPa.s (50 °C) (122 °F) |
| [10.STABILITY AND REACTIVITY] : No information available CHEMICAL STABILITY : No information available POSSIBILITY OF HAZARDOUS : Low reactivity REACTIONS : No self-reactivity. CONDITIONS TO AVOID : No information available | | |
| CHEMICAL STABILITY : No information available POSSIBILITY OF HAZARDOUS : Low reactivity REACTIONS No self-reactivity. CONDITIONS TO AVOID : No information available | OTHER DATA | : No information available |
| POSSIBILITY OF HAZARDOUS : Low reactivity REACTIONS : No self-reactivity. CONDITIONS TO AVOID : No information available | [10.STABILITY AND REACTIVITY] | |
| REACTIONS No self-reactivity. CONDITIONS TO AVOID : No information available | CHEMICAL STABILITY | : No information available |
| CONDITIONS TO AVOID : No information available | | : Low reactivity |
| | | No self-reactivity. |
| INCOMPATIBLE MATERIALS : No information available | CONDITIONS TO AVOID | : No information available |
| | INCOMPATIBLE MATERIALS | : No information available |

| HAZARDOUS DECOMPOSITION PRODUCTS | : | No information available |
|---|---|--|
| OTHERS | : | No information available |
| [11.TOXICOLOGICAL INFORMATION] ACUTE TOXICITY Oral | | |
| INFORMATION ON PRODUCT Dermal | : | No information available |
| INFORMATION ON PRODUCT Inhalation | : | No information available |
| INFORMATION ON PRODUCT SKIN CORROSION / IRRITATION | : | No information available |
| INFORMATION ON PRODUCT SERIOUS EYE DAMAGE / IRRITATION | : | No information available |
| INFORMATION ON PRODUCT RESPIRATORY OR SKIN SENSITIZATI RESPIRATORY | - | No information available |
| INFORMATION ON PRODUCT SKIN | : | No information available |
| INFORMATION ON PRODUCT MUTAGENICITY (GERM CELL MUTAG | | No information available |
| INFORMATION ON PRODUCT CARCINOGENICITY | | No information available |
| INFORMATION ON PRODUCT | : | No information available Not listed |
| NTP | : | Not listed |
| EU | : | Not listed |
| OSHA REPRODUCTIVE TOXICITY | : | Not listed |
| INFORMATION ON PRODUCT SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE | : | No information available |
| INFORMATION ON PRODUCT - REPEATED EXPOSURE | : | No information available |
| INFORMATION ON PRODUCT ASPIRATION HAZARD | : | No information available |
| INFORMATION ON PRODUCT | : | No information available |
| OTHER INFORMATION | : | No information available |
| [12.ECOLOGICAL INFORMATION] | | |
| ECOTOXICITY | : | No information available |
| PERSISTENCE / DEGRADABILITY | : | No information available |
| MOBILITY IN SOIL | : | No information available |
| BIOACCUMULATIVE POTENTIAL | : | No information available |
| OTHER ADVERSE EFFECTS | : | No information available |
| [13.DISPOSAL CONSIDERATIONS] | | |

Review "HANDLING AND STORAGE (Section 7)". Passed to a licensed waste contractor. Dispose of waste in accordance with local, state and federal regulations.

| [14.TRANSPORT INFORMATION] | | | |
|--|---|--|--|
| Follow all regulations in your country or re | gion | | |
| INTERNATIONAL REGULATIONS | | | |
| UN CLASS / UN NUMBER | Not applicable (IMDG, IATA) | | |
| SPECIAL PRECAUTIONS FOR USER | : Review "ACCIDENTAL RELEASE MEASURES (Section 6)". Review "HANDLING AND STORAGE (Section 7)". | | |
| | Ensure containers without breakage or leakage. Ensure containers tightly fixed. Follow all regulations in your country or region. | | |
| | Keep away from source of i | gnition. | |
| [15.REGULATORY INFORMATION] | | | |
| Follow all regulations in your country or re | gion. | | |
| INVENTORIES | : ENCS(Japan) | 2-798 | |
| | TSCA(USA) | Yes | |
| | EINECS(EU) | 273-095-1 | |
| | AICS(Australia) | Yes | |
| | DSL(Canada) | Yes | |
| | ECL(Korea) | KE-15058 | |
| | PICCS(Philippines) | Yes | |
| | IECSC(China) | Yes | |
| KAO Comparation is not able to aboald up t | a ragulatan (information in rag | ward to the automass in vour country o | |

KAO Corporation is not able to check up the regulatory information in regard to the substances in your country or region, therefore, we request this matter would be filled by your responsibility.

[16.OTHER INFORMATION]

REFERENCE

: -Safety data sheet for chemical products - Part 1: Content and order of sections(ISO 11014-1)

-International Chemical Safety Cards(ICSC) (Compiler's Guide)(1994)

To the best of the manufacturer's knowledge, the information contained herein is accurate. However, neither the manufacturer, nor any of its affiliates, make any representations or warranties (expressed or implied), nor assumes any liability (including liability for any direct, incidental, consequential, or other damages) with respect to the accuracy or completeness of the information contained herein. Such information may be (without limitation) invalid if the specified material is used in combination with another ,in a particular process, or under unusual conditions. Determination of suitability of any material for any given purpose is the sole responsibility of the user who assumes all risk and responsibility therefore. All materials may present unknown hazards and should be used with appropriate caution. The manufacturer cannot and does not guarantee that the hazards described herein are the only ones that exist.