

## SECTION 1: Identification of the substance and of the company

### A. Product identifier

Product (substance) name : DS 2000

### B. Recommended use and restriction on use

General use : Lubricants, industrial lubricants, grease etc.  
 Restrictions on use : Not available

### C. Company information

Kemat Belgium  
 Rue de la sablonniere 7  
 B-1000 Brussels - Belgium  
 T +32 2 219 48 11 - F +32 2 219 46 58  
 sales@kematbelgium.com  
 www.kematbelgium.com

### D. Emergency telephone number

National advisory body / Poison Centre : For immediate, life-threatening emergencies, call local emergency number  
 Supplier emergency number : +32 2 219 48 11

## SECTION 2: Hazards identification

### A. Classification of product

GHS Classification : Not classifiable

### B. Label elements

#### Labeling according to Directive 1272 2008[CLP]

Hazard symbols : Not classifiable  
 Signal Word : Not classifiable  
 Hazard statements : Not classifiable  
 Precautionary statements : Not classifiable

### C. Other hazards

Other hazards which do not result in classification : Not available

## SECTION 3: Composition/information on ingredients

Chemical name	Generic name	CAS No. or Reference No.	Contents (%)
Ethylene-Propylene Copolymer	Ethylene-Propylene Copolymer	9010-79-1/KE-29433	100

Reference No. : KE(Registration number of Korean Existing Chemicals List)

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### SECTION 4: First aid measures

<b>A</b>	Eye contact	:	<ul style="list-style-type: none"><li>• <b>Heated material:</b> Immediately flush eyes with plenty of water at least 15 min. If on eyes, get medical advice for removing this material.</li><li>• <b>Refrigerated material:</b> Immediately flush eyes with plenty of water or saline solution till remove perfectly. If eye irritation persists, get medical advice.</li></ul>
<b>B</b>	Skin contact	:	<ul style="list-style-type: none"><li>• <b>Heated material:</b> Remove immediately all contaminated clothing, flush the contact part with cool water at least 15 min. Call a physician.</li><li>• <b>Refrigerated material:</b> Flush contaminated part with plenty of water and soap completely. Wash contaminated clothing before reuse. If experiencing symptoms, get medical advice</li></ul>
<b>C</b>	Inhalation	:	<ul style="list-style-type: none"><li>• If inhaled, remove to fresh air.</li><li>• Perform artificial respiration if stop breathing.</li><li>• Use supplied-oxygen respirator if difficulty in breathing.</li><li>• Call a physician if necessary.</li></ul>
<b>D</b>	Ingestion	:	<ul style="list-style-type: none"><li>• Do not induce vomiting. Lay the patient down as head would be lower than body for suffocation prevention if occur vomiting.</li><li>• Do not give anything to mouth if patient is unconscious.</li><li>• Rinse the mouth and give 2~4 glasses of milk or water if patient is conscious.</li><li>• If large quantities of this material are swallowed, call a physician immediately.</li></ul>
<b>E</b>	Delayed and immediate effects and also chronic effects from short and long term exposure	:	<ul style="list-style-type: none"><li>• May occur stomach stimulus and diarrhea if ingestion.</li><li>• May causes irritation slightly if contact with skin.</li><li>• Repeated exposure may cause skin dryness or cracking. Heated material can cause thermal burns.</li><li>• Exposure to aerosols or particulates from heated material may cause adverse lung effects if high concentrations are inhaled.</li></ul>
<b>F</b>	Notes to Physician	:	<ul style="list-style-type: none"><li>• Medical personnel may leave this material in place to minimize physical damage to the skin or cover the material with a burn gel to prevent adhesion of the dressing to the material.</li><li>• Treatment may vary with condition of victim and specifics of incident.</li></ul>

### SECTION 5: Firefighting measures

<b>A</b>	Suitable (unsuitable) extinguishing media	:	<ul style="list-style-type: none"><li>• <b>Extinguishing media:</b> Chemical powder, CO2, Water fog, Foam, Use normal extinguisher, water spray in conflagration.</li><li>• <b>Unsuitable extinguishing media:</b> Water jet</li></ul>
<b>B</b>	Specific hazards arising from the chemical	:	<ul style="list-style-type: none"><li>• Irritating and highly toxic gases, carbon oxides such as carbon dioxide, carbon monoxide may be generated by thermal decomposition or combustion.</li><li>• During a fire, thermal depolymerization may produce flammable vapour.</li></ul>
<b>C</b>	Fire fighting procedures and equipments	:	<ul style="list-style-type: none"><li>• <b>Fire-fighting protective equipment:</b> Full firefighting turn-out gear(bunker gear), Supplied-air respirator (full facepiece), Self-contained breathing apparatus (pressure-demand or other positive-pressure mode in combination).</li><li>• Move container from fire area if it can be done without risk.</li><li>• Do not scatter spilled material with high-pressure water streams.</li><li>• Fire may be spread by water use.</li><li>• Do not inhale the material or its combustion products.</li><li>• Go against the wind and keep out of low areas.</li></ul>

### SECTION 6: Accidental release measures

<b>A</b>	Personal precautions, protective equipment and emergency procedures	:	<ul style="list-style-type: none"><li>• Perform in accordance with, see section 8. Exposure controls/personal protection. Put on appropriate personal protective equipment.</li><li>• No entry to unauthorized persons and isolate from dangerous area.</li><li>• Wash thoroughly after handling.</li></ul>
<b>B</b>	Environmental precautions	:	<ul style="list-style-type: none"><li>• Avoid dispersal of spilt material and runoff and contact with waterways, drains and sewers. If large spills, advise emergency services.</li></ul>
<b>C</b>	Methods and materials for containment and cleaning up	:	<ul style="list-style-type: none"><li>• Remove all source of ignition around the leak – sparks, flames. No smoking.</li><li>• Stop leak if safe to do so.</li><li>• For indoor spills, provide increased ventilation as required to minimize exposure.</li><li>• For small spills, absorb spilled material with sand or non-combustible material.</li><li>• For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.</li><li>• If water spill, remove from surface by skimming or with suitable absorbent.</li><li>• Place absorbent and other waste in an appropriate container for disposal.</li><li>• Dispose in accordance with the Waste Control Law.</li></ul>

### SECTION 7: Handling and storage

- A** Handling : • Perform in accordance with, see section 8. Exposure controls/personal protection. Put on appropriate personal protective equipment.
- Maintain below flash point, protect to leak of liquid or vapour.
  - Keep away from open flames, shut off the production of source of ignition (electricity, static electricity, sparks, heat, material of high-temperature).
  - Do not breathe vapour or mist when using this material. Avoid prolonged or repeated contact with skin. Avoid contact with eyes.
  - Empty containers may contain harmful, flammable/combustible or explosive residue or vapours.
  - Wash thoroughly after handling.
- B** Storage precautionary statements : • Keep container tightly closed in a cool, well-ventilated place.
- Keep container tightly closed before use.
  - Avoid contact with incompatible materials.
  - Keep away from heat, sparks, open flames, source of ignition.
  - Suitable storage materials: mild steel/ carbon steel.

### SECTION 8: Exposure controls/personal protection

- A** Exposure limits : • Exposure limit under ISHL: Not available
- ACGIH: Not available
  - Biological exposure limits: Not applicable
- B** Engineering controls : • A system of local and/or general exhaust is recommended to keep employee exposures above the Exposure Limits.
- Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.
  - Ventilation is recommended to control emissions near the source.
- C** Personal protective equipment : • **Respiratory Protection:** Use a respirator. Under conditions of frequent use or heavy exposure, respiratory protection may be needed. Respiratory protection is ranked in order from minimum to maximum. Consider warning properties before use.

#### When to take shelter

- i. Any chemical cartridge respirator with organic vapour cartridge(s).
- ii. Any chemical cartridge respirator with a full facepiece and organic vapour cartridge(s).
- iii. Any air-purifying respirator with a full facepiece and an organic vapour canister.

#### For Unknown Concentration or Immediately Dangerous to Life or Health

- iv. Self-contained breathing apparatus (pressure-demand or other positive-pressure mode in combination), supplied-air respirator with full facepiece.
- **Eye Protection:** Wear primary eye protection such as splash resistant safety goggles with a secondary protection face shield. Provide an emergency eye wash station and quick drench shower in the immediate work area.
  - **Hand Protection:** Wear chemical resistant protected gloves if there is hazard potential for direct skin contact. Wear heat resistant protected gloves to withstand the temperature of molten product.
  - **Body Protection:** Wear chemical resistant protected clothing if there is hazard potential for direct contact.

### SECTION 9: Physical and chemical properties

Appearance	: Transparent viscous liquid
Odour	: Not available
pH	: Not available
Melting point/Freezing point	: Not available
Initial boiling point/boiling ranges	: Not available
Flash point	: >290°C (COC)
Evaporating rate	: Not available
Flammability(solid, gas)	: Not available
Upper/lower flammability or explosive limits	: 0.12/0.02 volume % (ASTM E 680-04)
Vapour pressure	: Not available
Solubility	: Insoluble
Vapour density	: Not applicable
Relative density	: 0.85 (20°C)

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Partition coefficient of n-octanol/water	: Not available
Autoignition temperature	: 419 °C
Decomposition temperature	: Not available
Viscosity	: 2000 cSt (100°C)
Molecular weight	: 7300 (Mn)

### SECTION 10: Stability and reactivity

<b>A</b>	Stability	: • This material is stable under recommended storage and handling conditions.
<b>B</b>	Possibility of hazardous reaction	: • May not occur under normal temperature and pressure.
<b>C</b>	Conditions to avoid	: • Avoid to heat, open flames, sparks and other source of ignition. • Avoid to contact with incompatible materials.
<b>D</b>	Materials to avoid	: • Strong oxidizing agent: Hazard of fire and explosion.
<b>E</b>	Hazardous decomposition products	: • Combustion may produce carbon oxides such as carbon monoxide, carbon dioxide. • During a fire, thermal depolymerization may produce flammable vapour.

### SECTION 11: Toxicological information

<b>A</b>	Information on the likely routes of exposure	: • <b>Respiratory tracts:</b> Not available • <b>Oral:</b> Not Classifiable • <b>Eye / Skin:</b> Not available
<b>B</b>	Delayed and immediate effects and also chronic effects from short and long term exposure	: • Acute Toxicity 1. Acute oral toxicity i. Ethylene-Propylene Copolymer LD50(rat) > 5,000 mg/kg 2. Acute dermal toxicity: Not available 3. Acute inhalation toxicity: Not available 4. Skin corrosion/irritation: Not available • Serious eye damage/irritation: Not available • Respiratory sensitization: Not available • Skin sensitization: Not available • Carcinogenicity 1. Not classify to be carcinogenic substance (A1) and carcinogenic substance (A2) of presumed in Public notice. 2. Not Classifiable as a carcinogen in NTP, IARC, OSHA. • Germ cell mutagenicity: Not available • Reproductive toxicity: Not available • Specific target organ toxicity(single exposure): Not available • Specific target organ toxicity(repeated exposure): Not available • Aspiration hazard: Not available • Chronic effect: Not available
<b>C</b>	Calculation the classification of the mixture; the acute toxicity estimate etc.	: • Not applicable

### SECTION 12: Ecological information

<b>A</b>	Ecotoxicity	: Not available
<b>B</b>	Persistence and degradability	: Not available
<b>C</b>	Bioaccumulative potential	: Not available
<b>D</b>	Mobility in soil	: Not available
<b>E</b>	Hazard to the ozone layer	: Not applicable
<b>F</b>	Other adverse effects	: Not available

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### SECTION 13: Disposal considerations

- A** Disposal methods : • Dispose by incineration. If you have a trouble in incinerating, reclaim in a landfill based on a management and takes care of wastes designated after smashing, cutting or melting it less than 15cm.
- B** Special precautions for disposal : • Ref.) EU Waste classification code: 17 02 03 (plastic)
- The user of this product must disposal by oneself or entrust to waste disposer or person who other's waste recycle and dispose, person who establish and operate waste disposal facilities.
- Dispose of waste in accordance with local regulation.

### SECTION 14: Transport information

- A** UN Number : Not applicable
- B** Proper shipping name : Not applicable
- C** Hazard class : Not applicable
- D** Packing group : Not applicable
- E** Marine pollutant : Not applicable
- F** Special precautions for user related to transport or transportation measures : • Local transport follows in accordance with Dangerous Goods Safety Management Law.
- Package and transport follow in accordance with Department of Transportation (DOT) and other regulatory agency requirements.

### SECTION 15: Regulatory information

- A** Regulations : • Rotterdam Convention on Harmful Chemicals & Pesticides: Not applicable
- Stockholm Convention on Persistent Organic Pollutants: Not applicable
- Montreal Protocol on Substances That Deplete the Ozone Layer: Not applicable
- Information of EU Classification

European Inventory of Existing Chemical Substances(EINECS/ELINCS): All of the monomers in this polymer are on the EU Inventory, so this product is excepted in registration object.

1. Classification: Not applicable
2. Risk Phrases: Not applicable
3. Safety Phrases: Not applicable

#### Information of U.S.A

1. OSHA regulation(29CFR1910.119): Not applicable
2. CERCLA 103 regulation(40CFR302.4): Not applicable
3. EPCRA 302 regulation(40CFR355.30): Not applicable
4. EPCRA 304 regulation(40CFR355.40): Not applicable
5. EPCRA 313 regulation(40CFR372.65): Not applicable
6. Toxic Substances Control Act(TSCA): On the inventory or in compliance with the inventory.
7. Japanese Existing and New Chemical Substances(ENCS): On the inventory or in compliance with the inventory.
8. compliance with the inventory.
9. Australian Inventory of Chemical Substances(AICS): On the inventory or in compliance with the inventory.
- 10.with the inventory.
- 11.Inventory of Existing Chemical Substances in china(IECSC): On the inventory or in compliance with the inventory.
- 12.compliance with the inventory.
- 13.OECD Representative List of High Production Volume(HPV) Chemicals: Not in compliance with the inventory.
- 14.compliance with the inventory.
- 15.Canadian Domestic Substances List(DSL): On the inventory or in compliance with the inventory.
- 16.inventory.
- 17.National Inventory of Chemical Substances of Mexico(INSQ): On the inventory or in compliance with the inventory.
- 18.compliance with the inventory.
- 19.Philippines Inventory of Chemicals and Chemical Substances(PICCS): On the inventory or in compliance with the inventory.
- 20.or in compliance with the inventory.
- 21.Taiwan Chemical Substance Inventory(TCSI): On the inventory or in compliance with the inventory.
- 22.inventory.

### SECTION 16: Other information

#### Notice to Reader

While the information and recommendations in this publication are to the best of our knowledge, information and believe accurate at the date of publication, NOTHING HEREIN IS TO BE CONSTRUED AS A WARRANTY, EXPRESS OR OTHERWISE.

IN ALL CASES, IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE APPLICABILITY OF SUCH INFORMATION AND RECOMMENDATIONS AND THE SUITABILITY OF ANY PRODUCT FOR ITS OWN PARTICULAR PURPOSE.

THE PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

Hazards, toxicity, and behaviour of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behaviour should be determined by the user and made known to handlers, processors and end users.