



MATERIAL SAFETY DATA SHEET

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Revised edition no : 01

P-631 HEATING GEL

Effective Date: 14-7-2014

1 Identification of the Product and the company

Chemical Name : Heating Gel
Type of product chemical family : N/A
Use : Heating Preparation
Producer : TLC-KOYA CHEMICALS MANUFACTURING SDN BHD
No.22 & 23, Jalan Maju 1,
Cemerlang Industrial Estate,
81800 Ulu Tiram, Johor, Malaysia.
Tel: 607-8675798 Fax: 607-8675799
Website: www.koyachemicals.com Email: admin@koyachemicals.com
Emergency phone nr : See producer

2 Hazard Identification

Health Hazard - Harmful: may cause lung damage if swallowed.
- Repeated exposure may cause skin dryness or cracking.
Physical and Chemical Hazards / - Low hazard. Material can form flammable mixtures or can burn only upon
Fire and Explosion Hazards heating to temperatures at or above the flash point.
- Static Discharge. Product can accumulate static charges which can cause an incendiary electrical discharge.

3 Composition / Information on Ingredients

Health hazardous : Harmful if swallowed. Irritating to skin. Risk of serious damage to eyes.
Harmful: danger of serious damage to health, by prolonged exposure and if
swallowed.
CAS Number : Mixture
Concentration % by weight : 0.82/Ltr

4 First Aid Measures

Inhalation : Remove to fresh air. Give artificial respiration if not breathing. Oxygen may
be given if necessary. If sign and symptoms of toxicity persist, call a
physician.
Skin Contact : Flush with large amounts of water; use soap if available. Remove grossly
contaminated clothing, including shoes and laundry before reuse.
Eye Contact : Flush eyes with large amounts of water until irritation subsides, if irritation
persists, get medical attention.
Ingestion : If swallowed, DO NOT induce vomiting. Keep at rest. Get prompt medical
attention.

5 Fire-Fighting Measures

Fire fighting procedures - Use water spray to cool fire-exposed surfaces and to protect personnel.
Shut off "fuel" to fire. If a leak or spill has not ignited, use water spray to
disperse the vapors and to protect men attempting to stop a leak.
- Either allow fire to burn under controlled conditions or extinguish with foam
or dry chemical or CO₂. Try to cover liquid spills with foam.

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5 Fire-Fighting Measures -Continuous

- Special fire precautions
- Avoid spraying water directly into storage containers due to danger of boil over.
 - See also section 4 "First Aid Measures" as well as section 10 " Stability and reactivity".

6 Accidental Release measures

- Land Spill
- Eliminate sources of ignition. Warn occupant of downwind areas of fire and explosion hazard. Prevent liquid from entering sewers, watercourses or low areas.
 - Keep public away. Shut off sour if possible to do so without hazard. Advise authorities if sunstances has entered a watercourse or sewer or has cotaminated soil or vegetation. Take measures to minimize the effect on the ground water.
 - Contain spilled liquid with sand or earth.
 - Recover by pumping (use an explosion proof or hand pump) or with a suitable absorbent. If liquid is too viscous for pumping, scrape up with shovels or pails and place in suitable containers for recycle or disposal.
 - Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.
 - See section 4 "Fist Aid Measures" as well as section 10 "Stability and Reactivity".
- Water Spill
- Eliminate sources of ignition. Warn occupants and shipping in downwind areas of fire and explosion hazard and request them to stay clear.
 - Notify port or relevant authority and keep public away. Shut off source if possible to do so without hazard. Confine if possible.
 - Remove from surface by skimming or with suitable absorbes. If swallowed by local authorities and environmental agencies sinking and/or suitable dispersants may be used in non-confined waters.
 - Consult an expert on disposal of any recovered material and ensure conformity to local disposal regulations.
 - See section 4 "Fist Aid Measures" as well as section 10 "Stability and Reactivity".

7 Handling and Storage

- Handling : Good industrial and personal hygiene practice should be followed. No eating and drinking in the workplace. Ensure adequate ventilation.
- Storage : Storage temperature : between +5 and +40°C.
Protect fom frost and direct sunlight.
Drums and bottles : material is plastic or steel.
Bulk tanks : stainless steel, aluminium, plastic coated materials... Clean bulk tanks periodically to prevent accumulation of bacteria.
- Specific use : Use the best available methods of handling our Products whereby the employees enjoy maximum safety and whereby the environment is minimally affected.

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8 Exposure controls / personal protection

- Exposure limit values : No danger in normal ambient conditions.
There are no specific limiting values for professional exposure.
There are no biological limiting values.
User should determine the conditions for safe use of the product. Cfr. Section 7 "Handling and Storage".
- Exposure controls:
- Occupational exposure controls : Respiratory protection : not applicable
Hand protection : waterproof PVC-gloves (CE)
Eye protection : goggles or safety glasses (CE)
Skin protection : not applicable.
Avoid repeated skin contact.
 - Environmental exposure controls : The product must not be discharge directly into drains or waterways without treatment.

9 Physical and chemical properties

- Physical state : Half solid
Colour : Blue
Odour : Characteristics
pH Value : 5+/-0.5
Density [kg/l @ 20°C] : 0.82
Vapour pressure [hPa] : 12.1°C
Viscosity : N/A
Solubility in water : Miscible in all proportion with water
Flash point [°C] : Below 30°C

10 Stabiity and reactivity

- Conditions to avoid : Stable under the recommended storage conditions. Cfr. Section 7 "Storage".
Bacterial degradation can occur if the Product is stored for an unusually long period or is stored under unsuitable conditions.
- Materials to avoid : N/D
- Hazardous decomposition products : Cox and possibly other toxic vapours in case of fire.

11 Toxicological information

- On product : Low toxicity is indicated by available data.
Under normal industrial conditions, there is no indication that the Product can be considered as a health risk.
Skin contact should be avoided to prevent possible long-term or short-term sensitiation.

12 Ecological information

- Ecotoxicity : The Product is soluble with water and as such could cover considerable distances if spilled into waterways. Even a small spillage will whiten the appearance of water. Water for sewage treatment, that has been contaminated.

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12 Ecological information -Continuous

with small quantities of the Product, will not affect the biomass. High concentrations may be harmful to fish and micro organisms.

Mobility : Not established.
Persistence and degradability : There is only a slow environmental degradation of the Product.
Bioaccumulative potential : There is seemingly no tendency for bioaccumulation.
Other adverse effects : Unknown

13 Disposal Considerations

- The following advice only applies to the product as supplied
- Combination with other materials may well indicate another route of disposal. If in doubt, contact local TLC-KOYA CHEMICALS MANUFACTURING SDN BHD or local authorities.
- Empty packaging should be taken for recycling, ecovery or disposal through a suitably qualified or licensed contractor.
- Care should in any case be taken to ensure compliance with national and local regulations.
- This product is not suitable for disposal by either landfill or via municipal sewers, drains, and natural streams or rivers.
- This product is ash less and can be burned directly in appropriate equipment.

14 Transport information

General information : This Product is not regulated for road/rail & sea transport.

15 Regulatory Information

Classification and labeling : Classification /symbol - not regulated
Governing directive : Occupational Safety and Health (Classification, Packaging and Labeling of Hazardous Chemicals) Regulations 1997
Safety advice : (May contain information in excess of requirements under applicable laws.
S23 Do not breathe gas/fumes/vapor/spray
S24 Avoid contact with skin
S33 Take precautionary measures against static discharges
S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

16 Other information

Further information : None
Print date : 14-7-2014

N/A – Not Applicable N/D – Not Determined

All recommendations for the use of our products, whether given by us in writing, orally, or to be implied from data or test results obtained by us, are based on the current state of our knowledge at the time such recommendations are made. When additional information is obtained, these recommendations may be updated. They may also be influenced by circumstances outside our control. Notwithstanding such recommendations, the user is responsible to determine that the product as supplied by us, is suitable for the process or purpose he intends to use it. The user of the product is solely for compliance with all laws and regulation applying to the use of the product. Since we cannot control the application, use or processing of the products, we do not accept responsibility therefore. The user shall ensure that the intended use of the products will not infringe in any party's intellectual property rights.

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