

MATERIAL SAFETY DATA SHEET

PRODUCT AND COMPANY IDENTIFICATION

Company name : COOLMIN CO. LTD
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Established/revised on Jun 24th, 2014

PRODUCT NAME (Chemical name, product name): COOLMIN K-100

IDENTIFICATION OF THE SUBSTANCE

Single product/Mixture	: Mixture	
Chemical name	: Gluconic acid sodium salt	Potasslum hydroxide
Comporiet and contents	: 10.0%	4.50%
Chemical formuls/Structur formuls	: C6H11NaO7	KOH
METI number	: (2)-1410	1-369
CAS registry number	: 527-07-1	1310-58-3
Category UN/UN number	: Not available	1814
PRTR	: Not available	Not available

HAZARDS IDENTIFICATION

Category name	: Corrosive substance
Risk	: -
Potential health effects	: Eye and skin contact Imitates eyes and skin.
Potential environmental effects	: Hamiful to environment due to strong alkalinity. Drainage treatment is needed.

FIRST AID MEASURES

Eye contact	: Immediatery flush eyes with plenty or running water for over 15 minutes and get immediate medical treatment by an ophthalmologist. Make sure to wash every comer of lids and eyeballs.
Skin contact	: immediatery remove contaminated clothing including shoes and wash affected area with plenty of water. In case dermal imitations occur get medical treatment.
Inhalation	: Immediatery move person into frash air and keep warm and at rest. Get medical attention.
Ingestion	: DO NOT induce vomiting give water to the person and get immediate medical attention.

FIRE FIGHING MEASURES

Flammability	: Nonflammable
Exinguishing medis	: -

ACCIDENTAL RELEASE MEASURES

Wear appropriate personal protection (e. G. Eye protector, rubber gloves, rubber boots and protective mask, etc) Absorb liquid by dry sand or inert absorbent and collect it in hermetic container.

HANDLING AND STORAGE

Handling : Wear, if needed, appropriate protection (e. G. Eye protector, rubber gloves, rubber boots and long-sleeved blouse, etc) to avoid direct contact with skin, eyes and clothes. Handle the container with care.

Storage : After use, store in a sealed container away from entry of dust and moisture. Store away from direct sunlight and rain water and in a cool, dark and well-ventilated place.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure control limits : None

Occupational exposure limits

Japan Society for Occupational Health ACGIH : None

Work hygienic practices : Eyewash/body wash facility near working area recommended.

Personal protective equipment

Respiratory protection : Not specially required

Eye protection : Goggles

Hand protection : Rubber gloves

Foot protection : Rubber boots

Skin and body protection : Long-sleeved blouse

PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Pale yellow water solution

Boiling point : Approx 100°C

Vapor pressure : ___ Pa°C

Solubility : Arbitrarily soluble to water

Flash point : -°C

Specific gravity : 1.25 ± 0.01 (25°C)

Volatility : Not available

STABILITY AND REACTIVITY

Burning point : Not available

Freezing point : Not available

Explosion limit : Not available

Flammability : Nonflammable

ignition quality (hypergolicity and water reactivity)	: Not available
Oxydability	: Not available
Autoreactivity/wxplodability	: Not available
Dust explodability	: Not available
Stability/reactivity	: Stable under normal handling conditions. Acid-base reaction generates heat of neutralization
Other	: Not available.

TOXICOLOGICAL INFORMATION

Dermal corrosivity	: —
Irritant property (skin, eyes)	: Prolonged exposure may irritate skin eyes
Sensitizing property	: —
Acute (including LD50)	: —
Subacute	: —
Chronic	: —
Carcinogenicity	: —
Mutagenicity	: —
Reproductive effects	: —
Teratogenicity	: —
Others (including toxic gases generation by water-reaction)	: Not available

ECOLOGICAL INFORMATION

Degradability	: Unconfirmed
Accumulability	: Unconfirmed
Fish toxicity	: Unconfirmed
Others	: Alkaline when dissolved in water. Toxic against aquatic lives.

DISPOSAL CONSIDERATIONS

Dispose the effluents to the sewage treatment facilities in accordance with the provisions of ordinances. Or the effluents and containers shall be properly treated pursuant to all the relevant regulations by entrusting their disposal to the waste treatment companies authorized by the prefectural governors.

TRANSPORT INFORMATION

Comply with the instructions set forth in "Handling and storage" Make sure the containers are not leaky, avoid overturning, falling and damages, and take measures to prevent collapse of cargo.

REGULATORY INFORMATION

Article 57-2 of the Industrial Safety and Health Act: Materials to be advised (Appendix 9 of government decree)
4. 5% potassium hydrate

OTHER INFORMATION

Descriptions given above are established based on data and information currently available, but in no way do they guarantee the relevancy of such data/information or of the evaluations thereof. Moreover, since these instructions apply to normal use of the product safety measures appropriate for intended purpose should be newly undertaken in case of particular uses.