



Jiangxi TaiKay New Materials Co.,LTD
MSDS-DK-104 Potassium Methylsiliconate

一. Chemicals and Company Identity

Product Information:

English Name:DK-104 **Potassium Methylsiliconate**

Product Code:DK-104

Product Usage:

- 1.Widely used in roofing,inside and outside walls,floor,toilet,kitchen,basement,waterproof and damp proof of stock.
- 2.Used in underground civil defense project such as culvert,bridge,dam,tunnel,large-scale hydropower station and diversion works to against water erosion and prevent weathering.
- 3.Used in varied pool such as swimming pool,clear water reservoir,cesspool,water tower,etc.
- 4.Used in inorganic aggregates with high water absorption,all kinds of sand rock,marble,granite,gypsum,pearlite plate,roofbrick,cement brick,light body brick facing of tall building,asbestos,inorganic fabric,heat insulating material.To make it distinct waterproof and damp proof effect.
- 5.It can be applied to waterproof of water-soluble architectural coatings to protect colors ,prevent pollution and deterioration.It is widely used in exterior wall.
- 6.Used in emulsion paint,sodium silicate,the additive of 107adhesive,appearing absolutely high hydrophobicity,and maintain stable bonding strength.
- 7.Used in other special ways of reducing water absorption , anti permeability and waterproof.

Restricted Usage:No Relevant Information

Company Information:

Company Name:Jiangxi Taikay New Materials Co., LTD

Address:300 meters on the east of Dongxing North Road,New Material Industrial Park,High-tech Zone,Xinyu City,Jiangxi Province.



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二. Risk Overview

Danger Signs:

Danger in Physics and Chemistry:alkaline solution,easy to erode skin when contacted.

Health Hazard:the strong corrosivity of the product,it will erode skin when contacted.

Environment Impact: it will make the soil alkalized and pollute the water when leaked to around environment.

Special Hazard:no.

GHS Risk Categories:Non hazardous substance

Tag Elements: No

Cardinal Symptom:

It is easily to be erode when skin contacts.

Emergency Overview:

use gauze to cleanse and flush with plenty of water when contacts.

三. Constituent

Form:colorless transparent liquid

Chemical Name:Potassium Methyl Silicate

Components Information:

Chemical Composition	CAS No.	Percentage
Potassium Methyl Silicate	-	≧ 30%
Moisture Content	-	≧ 70%

四. Emergency Treatment



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- Suction : if suck in ,leave spot and move to fresh air places.Seek medical when serious.
- Skin Contact:take off the polluted clothes and flush with soapy water.
- Eye Contact:lift the eyelids,wash with running water or normal saline,seek medical when serious..
- Ingestion:rinse with water,seek medical care when necessary.

Acute or Chronic Main Side Effects and Symptoms:*no relevant information.*

Special Tips for Doctors:suit the remedy to the case.

五. Fire-fighting Measures

Suitable Extinguishant:foam extinguishing agent ,CO2 fire extinguishing agent,powder extinguishing agent.

Special Risk:there is no meaning for the incombustibility.

Special Extinguishing Method:-

Special Protective Equipments for Fire Fighters:there is no meaning for the incombustibility.

六. Leak Emergency Treatment

Preventive Measures,protective equipment and emergency handling procedures for operating personnel:

Abide by safe disposal suggestion and personal protective equipment suggestion.

Environmental Protection Measures:

prevent pouring into the sewer,drainage system and soil, avoid pouring into aquatic environment. Prevent spread on a large scale by enclosure method,keep and treat the washing water polluted ,you should notify the local administrative department if that doesn't work.

The absorption,elimination method and treatment materials:

Absorb the leakage with inert material,adopt enclosure method or adopt other suitable leak proof measurements to material diffusion for a large scale leakage,you should put the recycled materials into proper containers if can suck the blocked materials and use proper weak acid absorbent to clean the leaked materials.



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The Prevention Measures to Prevent a Secondary Hazard.

Avoid again leakage in the process of elimination.

七. Handling and Storage

Operation: use personal protective equipment as required in good draught environment. Rinse thoroughly after operation. This product will interact slowly with the carbon dioxide in air, so seal it when in no use. No eating and smoking in working places.

Storage: products should be stored in cool, dry environment.

八. Contact Control and Individual Protection

Engineering Control Method: ensure enough draught and occupational exposure limit.

• Allowable Concentration:

no relevant information

Personal Protective Equipments:

• Respiratory System Protection: automatic breathing apparatus.

• Hand Protection: acid and alkali resistant gloves

• Eye Protection: chemical safety protective glass

• Skin and Body Protection: wear acid and alkali resistant clothing

Other Protection: abide by normal preventive measures, change the clothes when polluted and wash hands after work.

九. Physical and Chemical Properties

Appearance and Character: colorless transparent liquid	Vapor Pressure: no relevant information.
Odor: no stimulating odor	Vapor Density: no relevant information
PH Value: $\cong 13$	Density: 1.30 (25°C)
Boiling Point: no relevant information	Solubility: insoluble in water, interact with acid



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Boiling Point:no meaning	n-octanol/water partition coefficient:no relevant information
Flash Point:no meaning	Self-ignition Temperature:no relevant information
Silsesquioxane Content: ≥ 22	Decomposition Temperature:no relevant information

十. Stability and Reactivity

Stability:stable in normal conditions.
Hazardous Reaction:no relevant information.
The Conditions Should Avoid:acid materials.
Incompatible Substances:avoid to contact acid.
Hazardous Decomposition Product:-

十一. Toxicological Information

Methyl Alcohol:LD ₅₀ 5628mg/kg(rats through mouth),LD ₅₀ 14200mg/kg (rabbit through mouth), LD ₅₀ 15800mg/kg (rabbit through blood vessel)
Skin Irritation or Corrosion:no relevant information
Eye Irritation or Corrosion:no relevant information
Respiratory or Skin Sensitization:no relevant information
Germ Cell Mutation:no relevant information
Carcinogenicity:no relevant information
Reproductive Toxicity:no relevant information
Specific Target Organ Systemic Toxicity-disposable Contact:no relevant information
Specific Target Organ Systemic Toxicity- repeated Contact:no relevant information
Hazard Inhalation:no relevant information

十二. Ecology Information

Ecotoxicity:no relevant information
Durability and Degradability:no relevant information



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Potential Bioaccumulation:no relevant information

Mobility on Soil:no relevant information

十三. Disposal

Disposal Methods:

Disposal Product:non-dangerous product,deal with as relevant local and national disposal requirements.

Polluted Package:advise recycle for spare after cleaning.or dispose as national and local relative disposal regulations.

Note:read the national and local relative disposal regulations before disposal,avoid pollution in the process.

十四. Transportation

UN No.:no relevant information

The United Nations Transport Name:no relevant information

The United Nations Risk Classification:no relevant information

Package Kind:simple package

Marine Pollutant(Yes/No):No

Other Information

Transportation Signs: no relevant information

十五. Regulation Information

National Regulation Information:

Regulates chemicals from safe usage,storage,transportation,load &unload,sort , label such aspects and so on as follows:

chemical sort,warning label and warning safety codes (GB20576-2006~GB20602-2006)

chemical sort and principles of risks on public (GB 13690-2009) .

十六. Other Information



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Revision Note:

This MSDS compiles as GB/T 16483-2008 standard;for nation hasn't issued chemical GHS catalogues,the classification of this MSDS is classified as chemicals,warning signs and note GB20576-2006~GB20602-2006 by ourselves automatically,adjust relatively after national issues chemicals GHS classification catalogue.

Data Resource:

Provided by company

Disclaimer:

This MSDS provides all information fully and truly,but we can't sure its absolute universality and accuracy.This MSDS just provided for those involved personnel acquired professional training as safety prevention data.Individuals assessed to this MSDS,must do independent judgement in special conditions.We will not bear any responsibility caused by using this MSDS in special conditions.

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