SAFETY DATA SHEET



1. Identification

Product identifier K-14 Solution Other means of identification Not available. Recommended use Not available. **Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company Name ErgonArmor, a division of Ergon Asphalt & Emulsions, Inc.

Address 2829 Lakeland Drive Jackson, MS 39232

USA

After hours telephone

1-800-222-7122

number

Normal work hours telephone number

1-877-982-7667

Website www.ergonarmor.com

E-mail sds@ergon.com

Emergency 24-hour telephone number

CHEMTREC: North America 1-800-424-9300 International 1-800-527-3887

Information on operation

hours

8:00 a.m. to 5:00 p.m.

2. Hazard(s) identification

Physical hazards Not classified.

Category 2 **Health hazards** Skin corrosion/irritation

Serious eye damage/eye irritation Category 2B

Environmental hazards Not classified. **OSHA** defined hazards Not classified.

Label elements



Signal word Warning

Hazard statement Causes skin and eye irritation.

Prevention Wash hands thoroughly after handling. Do not get this material in contact with eyes. Wear

protective gloves and eye/face protection.

Response IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

Storage Store in accordance with local/regional/national/international regulation.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Water		7732-18-5	60 - 75
Potassium silicate		1312-76-1	25 - 40

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4. First-aid measures

Inhalation Move to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. If

breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

Get medical attention.

Skin contact In case of contact, immediately flush skin with plenty of water for at least 15 minutes while

> removing contaminated clothing and shoes. Call a physician or poison control center immediately. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.

Eye contact Immediately flush with plenty of water. Remove any contact lenses and open eyes wide apart. Call

an ambulance and continue flushing during transportation to hospital taking along these

instructions. Call a physician or poison control center immediately. Continue rinsing.

Call a physician or poison control center immediately. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person.

Not available. Most important

symptoms/effects, acute and

delayed

Ingestion

5. Fire-fighting measures

Suitable extinguishing media Use extinguishing measures that are appropriate to local circumstances and the surrounding

environment.

Unsuitable extinguishing

media

Not available.

Specific hazards arising from

the chemical

Not applicable.

Special protective equipment

Not available.

and precautions for

firefighters

Fire-fighting equipment/instructions

In the event of fire, wear self-contained breathing apparatus.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during

clean-up.

Methods and materials for containment and cleaning up

Absorb spill with vermiculite or other inert material. Do not allow the spilled product to enter public

drainage system or open water courses.

7. Handling and storage

Precautions for safe handling Do not get in eyes, on skin, on clothing. Avoid breathing mist or vapor. Keep container closed. Use

only with adequate ventilation. Wash thoroughly after handling.

Conditions for safe storage, including any

incompatibilities

Store in a closed container away from incompatible materials.

8. Exposure controls/personal protection

Occupational exposure limits No exposure limits noted for ingredient(s).

Biological limit values No biological exposure limits noted for the ingredient(s).

Exposure guidelines No exposure standards allocated.

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure

limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles) and a face shield.

Hand protection Not normally needed.

Other Wear chemical protective equipment that is specifically recommended by the manufacturer. Wear

appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapor

contact.

If ventilation is not sufficient to effectively prevent buildup of aerosols or mists, appropriate Respiratory protection

NIOSH/MSHA respiratory protection must be provided. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever work place

conditions warrant a respirator's use.

Thermal hazards Not available.

Material name: K-14 Solution SDS US **General hygiene** considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. When using, do not eat, drink or smoke.

9. Physical and chemical properties

Appearance Clear to hazy Liquid.

Physical state Liquid. **Form** Liquid. Color Colorless. Odor None.

Odor threshold Not available. 11 - 13 pН Melting point/freezing point Not available. Initial boiling point and 212 °F (100 °C)

boiling range

212 °F (100 °C) estimated

Flash point Not available. **Evaporation rate** Not available Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit -

upper (%)

Not available.

Explosive limit - lower

(%)

Not available.

Explosive limit - upper

(%)

Not available.

Not available. Vapor pressure Not available. Vapor density Relative density Not available.

Solubility(ies)

Solubility (water) Soluble **Partition coefficient** Not available.

(n-octanol/water)

Auto-ignition temperature Not available. **Decomposition temperature** Not available. Not available. **Viscosity**

Other information

Specific gravity 1.42

10. Stability and reactivity

Reactivity Not available.

Chemical stability Material is stable under normal conditions. Possibility of hazardous Hazardous polymerization does not occur.

reactions

Conditions to avoid Extremes in temperature.

Incompatible materials This product may react with strong acids. This product may react with strong alkalies. Contact with

these materials may result in an exothermic reaction characterized by heat and splattering of the

chemicals.

Hazardous decomposition

products

None known.

11. Toxicological information

Information on likely routes of exposure

Ingestion Not available. **Inhalation** Not available.

Skin contact Causes skin irritation.

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Symptoms related to the physical, chemical and toxicological characteristics

Not available.

Information on toxicological effects

Acute toxicityNot available.Skin corrosion/irritationNot available.

Serious eye damage/eye

irritation

Causes eye irritation.

Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitization Causes skin irritation.

Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Not classifiable

as to carcinogenicity to humans.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity Not classified. **Specific target organ toxicity** Not available.

- single exposure

Specific target organ toxicity

Not available.

- repeated exposure

Aspiration hazard Not available.

Chronic effects Prolonged or repeated contact with skin may cause redness, itching, irritation, eczema/chapping

and oil acne. Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity No ecotoxicity data noted for the ingredient(s).

Persistence and degradabilityNot available.Bioaccumulative potentialNot available.Mobility in soilNot available.Other adverse effectsNot available.

13. Disposal considerations

Disposal instructionsContract with a disposal operator licensed by the Law on Disposal and Cleaning. Dispose of

contents/container in accordance with local/regional/national/international regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues /

unused products

Dispose of in accordance with local regulations.

Contaminated packaging Not available.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not available.

Annex II of MARPOL 73/78

and the IBC Code

15. Regulatory information

US federal regulationsThis product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard,

29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

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CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 No

Hazardous chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

(SDWA)

Not regulated.

US state regulationsCalifornia Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is

not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

US. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Not regulated.

US. Pennsylvania RTK - Hazardous Substances

Not regulated.

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

Not Listed.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the government.

16. Other information, including date of preparation or last revision

 Issue date
 04-10-2015

 Revision date
 01-12-2016

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A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Further information References

HMIS® is a registered trade and service mark of the NPCA.

ACGIH

EPA: AQUIRE database

NLM: Hazardous Substances Data Base

US. IARC Monographs on Occupational Exposures to Chemical Agents

Korea. Accidental Release Prevention Substances (Presidential Decree of Toxic Chemical Control Law, Executive Order No. 19203)

Korea. Dangerous Substances Threshold Quantity (Presidential Decree of Dangerous Substances Safety Management Act No. 18406, Schedule 1)

Korea. Harmful Substances Prohibited from Manufacturing (Presidential Decree on the Industrial Safety and Health Act (No. 13053), Article 29)

Korea. Harmful Substances Requiring Permission for Manufacture or Use (Presidential Decree on the Industrial Safety and Health Act (No. 13053), Article 30)

Korea. Non-Toxic Chemicals List (National Institute of Environment Research (NIER) Public Notice No. 1997-10, as amended)

Korea. Observational Chemicals (Ministerial Decree of TCCL Article 6)

Korea. OELs. Regulation for Permitted Concentration of Hazardous Substances (Ministry of Labor (MOL) Public Notice No. 1986-45, as amended)

Korea. Prohibited Chemical Substances (TCCL Article 11)

Korea. Regulated volatile organic compounds (VOCs) (MOE Notice No. 2001-36, March 8, 2001, as amended)

Korea. Restricted Chemical Substances (TCCL Article 11)

Korea. Toxic Chemical Control Law (TCCL), Existing Chemicals Inventory (KECI)

Korea. Toxic Chemical Control Law (TCCL), pre-1997 List

Korea. Toxic Chemicals (TCCL Article 10)

Korea. Toxic Release Inventory (TRI) Chemicals (TCCL Article 14)

Taiwan. Dangerous Materials (Rules on Hazard Communication of Dangerous Materials and Toxic Materials)

Taiwan. Industrial Precursor Chemicals (Categories and Regulations Governing Inspection and Declaration of Industrial Precursor Chemicals, MOEA Decree No. 87, as amended)

Taiwan. OELs. (Standards on Workplace Atmosphere of Dangerous and Hazardous Materials) Taiwan. Toxic Chemical Substances (TCS) (List of Toxic Chemical Substances announced by the Environmental Protection Administration)

Taiwan. Toxic Materials (Rules on Hazard Communication of Dangerous Materials and Toxic Materials)

HSDB® - Hazardous Substances Data Bank

JIS Z 7250: 2005 Safety data sheet for chemical products-Part 1:Content and order of sections JCIA GHS Guideline, October 2008

IARC Monographs. Overall Evaluation of Carcinogenicity National Toxicology Program (NTP) Report on Carcinogens

ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices Japan Society for Occupational Health, Recommendation of Occupational Exposure Limits

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other

materials or in any process, unless specified in the text.

Revision Information

Disclaimer

Product and Company Identification: Product and Company Identification

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