

SECTION 1: PRODUCT AND COMPANY INFORMATION

Product Name:	K-5-P
Supplier:	ValCool, LLC 5230 Brittmoore Rd Houston, TX 77041
Telephone:	(800) 244-9004
Fax:	(888) 695-6449
Email:	support@valcool.com
In case of Emergency:	CHEMTREC 800-424-9300
Product Description	Heavy-duty, general-purpose, nitrite free, alkaline, synthetic cleaner

SECTION 2: HAZARD IDENTIFICATION

GHS Classification



GHS07
Skin Irrit. 2 - H315 - Causes skin irritation.
Eye Irrit. 2A - H319 - Causes serious eye irritation.

GHS Label

GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictogram



GHS07

Signal word Warning

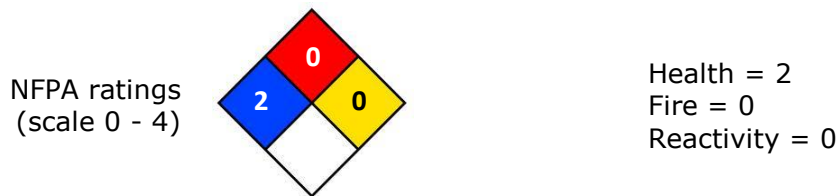
Hazard-determining components of labeling Sodium metasilicate

Hazard Statement Causes skin irritation.
Causes serious eye irritation.

Precautionary statements

Prevention	Wear protective gloves. Wear eye protection / 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 skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention.

Classification System



HMIS-ratings
(scale 0 - 4)

Health	2
Fire	0
Reactivity	0

Health = 2
 Fire = 0
 Reactivity = 0

Other hazards

Results of PBT and vPvB assessment
 PBT: Not applicable.
 vPvB: Not applicable.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Characterization: Mixture

Description: Mixture of the substances listed below with nonhazardous additions.

Components/Ingredients	CAS No.	%
propane-1,2-diol	57-55-6	2.5-<10%
sodium metasilicate	13517-24-3	0.1-≤2.5%
Poly[oxyethylene(dimethylimino)ethylene (dimethylimino)ethylene dichloride]	31512-74-0	0.1-≤2.5%

SECTION 4: FIRST AID MEASURES

General information	Immediately remove any clothing soiled by the product.
Eye Contact	Rinse opened eye for several minutes under running water. Then consult a doctor.
Skin Contact	Immediately wash with water and soap and rinse thoroughly
Ingestion	Drink copious amounts of water and provide fresh air. Immediately call a doctor.
Inhalation	In case of unconsciousness place patient stably in side position for transportation.

Information for doctor:

Most important symptoms/effects, acute and delayed No further relevant information available.

Description of necessary first aid measures / specific treatments No further relevant information available.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing Media

Suitable extinguishing agents Water, Water Spray, Foam, Dry powder, Carbon Dioxide (CO2).

Special hazards arising from the substance or mixture No further relevant information available

Special Fire Fighting Instructions Full protective clothing and approved self-contained breathing apparatus if necessary for firefighting personnel.

Protective equipment No special measures required

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment & emergency procedures Wear protective equipment. Keep unprotected persons away.

Environmental precautions Do not allow to enter sewers/ surface or ground water.

Methods and materials for containment and cleaning up Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.
Use neutralizing agent.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

Reference to other sections See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE

Handling

Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.

Information about protection against explosions and fires Keep container closed when not in use. Store in a cool, dry, well ventilated place away from incompatible materials.

Storage

Requirements to be met by storerooms and receptacles	Keep container closed when not in use. Store in a cool, dry, well ventilated place away from incompatible materials.
Information about storage in one common storage facility	Keep container tightly closed in a cool, well-ventilated place. Keep away from source of ignition.
Further information about storage conditions	Keep receptacle tightly sealed
Specific end use(s)	No further relevant information available.

SECTION 8: EXPOSURE CONTROL AND PERSONAL PROTECTION

Additional information about design of technical systems - No further data; see item 7.

Control parameters

Components with limit values that require monitoring at the workplace

propane-1,2-diol	57-55-6
WEEL	Long-term value: 10 mg/m ³

Additional information: The lists that were valid during the creation were used as basis

Exposure controls

Personal protective equipment

General protective and hygienic measures
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.

Eye / Face Protection



Tightly sealed goggles

Hand Protection



Protective Gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. When contact is likely wear chemical resistant gloves and boots.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the

manufacturer of the protective gloves and has to be observed.

Respiratory Protection In case of brief exposure or low pollution use respiratory filter device.
In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	Liquid
Color	Light yellow
Odor	Mild
Specific Gravity at 20°C (68°F)	1.05 g/cm ³ (8.762 lbs/gal)
Density	N.D.
Evaporation rate	Not determined
Flash Point	Not applicable
Auto-ignition Temperature	Does not ignite
Danger of explosion	No Danger
Boiling Point / Range	12
pH- Value at 20 °C (68 °F)	Soluble
Solubility in Water	
Viscosity	Not determined.
Kinematic	3.0 %
Organic solvents	3.0 %
VOC content	3.0 % (Neat) 115 g/L (Working Solution): 11.5 g/L
Solids content	3.0 %
Other information	No further relevant information available.

SECTION 10: STABILITY AND REACTIVITY

Reactivity	No further relevant information available
Chemical Stability	
Thermal decomposition Conditions to Avoid	Stable under normal conditions.
Possibility of hazardous reactions	No dangerous reactions known
Conditions to Avoid	No further relevant information available
Incompatibility with other Materials	Do not mix with oxidizers
Hazardous decomposition materials	Carbon Dioxide and Carbon Monoxide and various unidentified organic hydrocarbons

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Primary irritant effect

Eye Contact	Strong caustic effect
Skin Contact	Caustic effect on skin and mucous membranes
Sensitization	Product is classified as moderately irritating to the skin

Additional toxicological information

The product shows the following dangers according to internally approved calculation methods for preparations: Irritant. Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

Carcinogenic categories

IARC

(International Agency for Research on Cancer)

None of the ingredients is listed.

NTP

(National Toxicology Program)

None of the ingredients is listed.

OSHA-Ca

(Occupational Safety & Health Administration)

None of the ingredients is listed.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Aquatic toxicity	No further relevant information available
Persistence and degradability	No further relevant information available



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Behavior in environmental systems

Bioaccumulative potential No further relevant information available
Mobility in soil No further relevant information available

Additional ecological information

General notes Must not reach bodies of water or drainage ditch undiluted or unneutralized
Results of PBT and vPvB assessment PBT: Not applicable.
vPvB: Not applicable.
Other adverse effects No further relevant information available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Recommendation Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging

Recommendation Disposal must be made according to official regulations.
Recommended cleansing agent Water, if necessary with cleansing agents.

SECTION 14: TRANSPORT INFORMATION

DOT Classification

UN number Not Regulated
UN proper shipping name Not Regulated
Transport hazard class(es) Not Regulated
Packing group Not Regulated

Environmental Hazards Not applicable.
Special precautions for user Not applicable.
Stowage Category A

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

UN "Model Regulation" Not Regulated

SECTION 15: REGULATORY INFORMATION

Sara

Section 355 (extremely hazardous substances) None of the ingredients is listed.

Section 313 (Specific toxic chemical listings) None of the ingredients is listed.

TSCA (Toxic Substances Control Act)
 57-55-6 propane-1,2-diol
 1310-58-3 potassium hydroxide

Proposition 65

Chemicals known to cause cancer None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males None of the ingredients is listed.

Chemicals known to cause developmental toxicity None of the ingredients is listed.

Carcinogenic categories

EPA (Environmental Protection Agency) None of the ingredients is listed

TLV (Threshold Limit Value established by ACGIH) None of the ingredients is listed

NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed

GHS Label

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Hazard pictogram



GHS07

Signal word Warning

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Precautionary statements

- | | |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Prevention | Wear protective gloves.
Wear eye protection / 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 skin irritation occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention |
| Disposal | Dispose of contents/container in accordance with local/regional/national/international regulations. |

National regulations

- | | |
|----------------------------|--------------------------------------------------------|
| Chemical safety assessment | A Chemical Safety Assessment has not been carried out. |
|----------------------------|--------------------------------------------------------|

SECTION 16: OTHER INFORMATION

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Abbreviations and acronyms:

DOT: US Department of Transportation
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Skin Sens. 1B: Sensitisation - Skin, Hazard Category 1B

HMIS:

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