

# SAFETY DATA SHEET

## 1. Identification

**Product identifier:** KSUB 3

**Other means of identification**

**SDS number:** 000100002284

**Manufacturer/Importer/Supplier/Distributor information**

**Supplier**

Appalachian Drilling Services

105 Industrial Park Road

Beech Creek, PA 16822

570-769-5179

**Emergency telephone number:**

For emergency assistance involving chemicals call

CHEMTREC day or night at: 1-800-424-9300. CHEMTREC

INTERNATIONAL Tel# 703-527-3887.

## 2. Hazard(s) identification

**Hazard classification**

**Health hazards**

Skin corrosion/irritation

Category 2

**Label elements**

**Hazard symbol**



<b>Signal word</b>	Warning
<b>Hazard statement</b>	Causes skin irritation.
<b>Precautionary statement</b>	
<b>Prevention</b>	Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe dust or mists. Wear protective gloves/protective clothing/eye protection/face protection.
<b>Response</b>	IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. Specific treatment (see this label). Wash contaminated clothing before reuse.
<b>Storage</b>	Store locked up.
<b>Disposal</b>	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations,

and product characteristics at time of disposal.

Other hazards which do not result in GHS classification      None.

### 3. Composition/information on ingredients

#### Mixtures

Chemical identity	Common name and synonyms	CAS number	Content in percent (%) <sup>*</sup>
Potassium chloride		7447-40-7	>=10 - <=20%
TRADE SECRET	Proprietary,		>=10 - <=20%

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

### 4. First-aid measures

**Ingestion:** 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. Rinse mouth thoroughly. Never give liquid to an unconscious person.

**Inhalation:** In case of inhalation of spray mist: Move person into fresh air and keep at rest. Get medical attention if any discomfort continues.

**Skin contact:** Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. If skin irritation occurs: Get medical advice/attention.

**Eye contact:** Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention if irritation persists after washing.

**Most important symptoms/effects, acute and delayed**

**Symptoms:** No data available.

**Indication of immediate medical attention and special treatment needed**

**Treatment:** No data available.

<b>5. Fire-fighting measures</b>
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**General fire hazards:** No data available.

**Suitable (and unsuitable) extinguishing media**

**Suitable extinguishing media:** Material will not burn. In case of fire in the surroundings: all extinguishing agents allowed.

**Unsuitable extinguishing media:** No data available.

**Specific hazards arising from the chemical:** No data available.

**Special protective equipment and precautions for firefighters**

**Special fire fighting  
procedures:**

No data available.

**Special protective  
equipment for fire-fighters:**

No data available.

## **6. Accidental release measures**

**Personal precautions,  
protective equipment and  
emergency procedures:**

Use personal protective equipment. Keep unauthorized personnel away.

**Methods and material for  
containment and cleaning  
up:**

Absorb spillage with non-combustible, absorbent material. Dike for later disposal.

## **7. Handling and storage**

**Precautions for safe handling:**

Use personal protective equipment as required. Use only with adequate ventilation. Container must be kept tightly closed.

**Conditions for safe storage,  
including any  
incompatibilities:**

No data available.

## **8. Exposure controls/personal protection**

**Control parameters**

**Occupational exposure limits**

**Appropriate engineering  
controls**

No data available.

#### Individual protection measures, such as personal protective equipment

<b>General information:</b>	Use personal protective equipment as required. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned. Practice good housekeeping.
<b>Eye/face protection:</b>	Use personal protective equipment as required. Wear goggles/face shield. Use tight fitting goggles if dust is generated. Use tight fitting goggles if dust is generated. Use tight fitting goggles if dust is generated.
<b>Skin protection</b>	
<b>Hand protection:</b>	Use suitable protective gloves if risk of skin contact. Use suitable protective gloves if risk of skin contact. Use suitable protective gloves if risk of skin contact.
<b>Other:</b>	Chemical resistant clothing Apron and long sleeves are recommended. Chemical resistant clothing Apron and long sleeves are recommended. Chemical resistant clothing Apron and long sleeves are recommended.
<b>Respiratory protection:</b>	In case of inadequate ventilation, use respiratory protection. In case of inadequate ventilation, use respiratory protection. In case of inadequate ventilation, use respiratory protection.
<b>Hygiene measures:</b>	No data available.

#### 9. Physical and chemical properties

<b>Appearance</b>	<b>Physical state:</b>	No data available.
<b>Form:</b>		No data available.
<b>Color:</b>		No data available.

Odor:	No data available.
Odor threshold:	No data available.
pH:	No data available.
Melting point/freezing point:	No data available.
Initial boiling point and boiling range:	No data available.
Flash Point:	No data available.
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower limit on flammability or explosive limits	
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density:	No data available.
Relative density:	No data available.
Solubility(ies)	
Solubility in water:	No data available.
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.



## 10. Stability and reactivity

<b>Reactivity:</b>	No data available.
<b>Chemical stability:</b>	No data available.
<b>Possibility of hazardous reactions:</b>	None under normal conditions.
<b>Conditions to avoid:</b>	Excessive heat.
<b>Incompatible materials:</b>	Strong oxidizing agents.
<b>Hazardous decomposition products:</b>	No data available.

## 11. Toxicological information

### Symptoms related to the physical, chemical and toxicological characteristics

<b>Ingestion:</b>	No data available.
<b>Inhalation:</b>	No data available.
<b>Skin contact:</b>	No data available.
<b>Eye contact:</b>	No data available.

### Information on toxicological effects

#### Acute toxicity (list all possible routes of exposure)

##### Oral

<b>Product:</b>	No data available.
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**Specified substance(s):**

Potassium chloride      LD 50 (Rat): 2,600 mg/kg  
LD 50 (Guinea pig): 2,500 mg/kg  
LD 50 (Rat): Approximate 3,020 mg/kg 2 (reliable with restrictions)

**Dermal**

**Product:**      No data available.

**Inhalation**

**Product:**      No data available.

**Repeated dose toxicity**

**Product:**      No data available.

**Skin corrosion/irritation**

**Product:**      No data available.

**Serious eye damage/eye irritation**

**Product:**      No data available.

**Respiratory or skin sensitization**

**Product:**      No data available.

**Carcinogenicity**

**Product:**      No data available.

**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

**US. National Toxicology Program (NTP) Report on Carcinogens:**

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

**Germ cell mutagenicity**

**In vitro**

**Product:** No data available.

**In vivo**

**Product:** No data available.

**Reproductive toxicity**

**Product:** No data available.

**Specific target organ toxicity - single exposure**

**Product:** No data available.

**Specific target organ toxicity - repeated exposure**

**Product:** No data available.

**Aspiration hazard**

**Product:** No data available.

**Other effects:** No data available.

## 12. Ecological information

### Ecotoxicity:

#### Acute hazards to the aquatic environment:

##### Fish

**Product:** No data available.

##### Specified substance(s):

Potassium chloride LC 50 (Rainbow trout, donaldson trout (*Oncorhynchus mykiss*), 24 h): 923 - 1,536 mg/l Mortality LC 50 (Fathead minnow (*Pimephales promelas*), 24 h): 2,133 - 2,850 mg/l Mortality LC 50 (Striped bass (*Morone saxatilis*), 24 h): 2,911 - 4,200 mg/l Mortality LC 50 (Western mosquitofish (*Gambusia affinis*), 24 h): 4,700 mg/l Mortality LC 50 (Striped bass (*Morone saxatilis*), 24 h): 458 - 565 mg/l Mortality

##### Aquatic invertebrates

**Product:** No data available.

##### Specified substance(s):

Potassium chloride LC 50 (Water flea (*Daphnia magna*), 24 h): 343 mg/l Mortality LC 50 (Crayfish (*Orconectes limosus*), 96 h): 640 mg/l Mortality LC 50 (Long fingernail clam (*Musculium transversum*), 96 h): 696 - 1,160 mg/l Mortality LC 50 (european physa, bladder snail (*Physella acuta*), 96 h): 940 mg/l Mortality LC 50 (Snail (*Physastra gibbosa*), 96 h): 940 mg/l Mortality

#### Chronic hazards to the aquatic environment:

##### Fish

**Product:** No data available.

**Aquatic invertebrates**

**Product:** No data available.

**Toxicity to Aquatic Plants**

**Product:** No data available.

**Persistence and degradability**

**Biodegradation**

**Product:** No data available.

**BOD/COD ratio**

**Product:** No data available.

**Bioaccumulative potential**

**Bioconcentration factor (BCF)**

**Product:** No data available.

**Partition coefficient n-octanol / water (log Kow)**

**Product:** No data available.

**Mobility in soil:** No data available.

**Known or predicted distribution to environmental compartments**

Potassium chloride      No data available.

TRADE SECRET      No data available.

### 13. Disposal considerations

**Disposal instructions:**      Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

**Contaminated packaging:**      No data available.

### 14. Transport information

Not regulated for US domestic ground transportation.

### 15. Regulatory information

**WHMIS Classification:**

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UP: UP: Uncontrolled product

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

**CERCLA Hazardous Substance List (40 CFR 302.4):**

**Superfund amendments and reauthorization act of 1986 (SARA)**

**Hazard categories**



Acute (Immediate)



Chronic (Delayed)



Fire



Reactive



Pressure Generating

**SARA 302 Extremely hazardous substance**

**SARA 304 Emergency release notification**

**SARA 311/312 Hazardous chemical**

**SARA 313 (TRI reporting)**

**Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)**

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

**US state regulations**

**US. California Proposition 65**

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

**US. Massachusetts RTK - Substance List**

**US. Pennsylvania RTK - Hazardous Substances**

**US. Rhode Island RTK**

**Inventory Status:**Canada DSL Inventory List:

On or in compliance with the inventory

US TSCA Inventory:

On or in compliance with the inventory

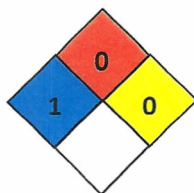
**16. Other information, including date of preparation or last revision**

**HMIS Hazard ID**

Health		1
Flammability		0
Physical hazards		0
PERSONAL PROTECTION		

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; \*Chronic health effect

**NFPA Hazard ID**



Flammability

Health

Reactivity

Special hazard.

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

**Issue date:**

05/31/2015



<b>Revision date:</b>	No data available.
<b>Version #:</b>	0.0
<b>Further information:</b>	No data available.