



VOLUNTARY PURCHASING GROUPS, INC.

Safety Data Sheet Hi-Yield Muriate of Potash

SECTION 1: Identification

GHS Product identifier

Product name	Hi-Yield Muriate of Potash
Product number	34145
Brand	Hi-Yield
Substance name	Potassium Chloride

Other means of identification

NPK 0-0-60

Recommended use of the chemical and restrictions on use

Fertilizer

Supplier's details

Name	Voluntary Purchasing Groups, Inc.
Address	230 FM 87 Bonham TX 75418 USA

Telephone	855-270-4776
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Emergency phone number

In the event of a medical or chemical emergency contact ChemTel, Inc.
North American 1-800-255-3924 or worldwide Intl. + 01-813-248-0585

SECTION 2: Hazard identification

General hazard statement

Causes serious eye irritation.

Classification of the substance or mixture

- Skin corrosion/irritation, Cat. 1
- Eye damage/irritation, Cat. 1

GHS label elements, including precautionary statements

Pictograms



Signal word

Warning

Safety Data Sheet

Hi-Yield Muriate of Potash

Hazard statement(s)

H335 May cause respiratory irritation
H317 May cause an allergic skin reaction
H303+H313 May be harmful if swallowed or in contact with skin

Precautionary statement(s)

P102 Keep out of reach of children.
P103 Read label before use.

SECTION 3: Composition/information on ingredients

Substances

Substance name: Potassium Chloride; Formula: KCl

Other names / synonyms: Potassium chloride (KCl)

Hazardous components

Component	Concentration
Potassium chloride (CAS no.: 7447-40-7)	95 - 98 %

SECTION 4: First-aid measures

Description of necessary first-aid measures

General advice In case of persisting adverse effects consult a physician.

If inhaled Remove to fresh air.

In case of skin contact In case of irritation, remove clothing. Wipe excess from skin. Wash with soap and water for at least 5 minutes.

In case of eye contact Flush eyes with plenty of water, lifting lower and upper eyelids occasionally.

If swallowed Induce vomiting. Never give anything by mouth (oral) to an unconscious person.

Most important symptoms/effects, acute and delayed

Nausea. Headache. Shortness of breath. Diarrhea. Vomiting. Dehydration. Irritation - all routes of exposure.

Indication of immediate medical attention and special treatment needed, if necessary

If seeking medical attention, provide SDS to physician.

SECTION 5: Fire-fighting measures

Suitable extinguishing media

Any mean suitable for extinguishing surrounding fire. Spray water for small fires. For large fires flood with abundant water.

Specific hazards arising from the chemical

No data available.

Special protective actions for fire-fighters

No data available.

SECTION 6: Accidental release measures

Safety Data Sheet

Hi-Yield Muriate of Potash

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment (Section 8).

Environmental precautions

Do not discharge into drains. Avoid surface and ground water contamination.

Methods and materials for containment and cleaning up

Pick up the product mechanically and store in a normal container for recovery or disposal.

Reference to other sections

Section 8.

SECTION 7: Handling and storage

Precautions for safe handling

Minimize dust generation. Avoid contact with eyes and skin.

Conditions for safe storage, including any incompatibilities

Special Requirements : Keep the product in the original containers.

Storage Conditions : Keep containers closed in well ventilated and cool place.

SECTION 8: Exposure controls/personal protection

Appropriate engineering controls

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use/handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor or dusts (total/respirable) below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above. Use under a fume hood. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Safety glasses with side shields or goggles.

Skin protection

The glove material has to be impermeable and resistant to the product/the substance/ the preparation being used/handled. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Body protection

Personal Protective Equipment:

Wear nitrile rubber gloves (over 0.11 mm thickness, > 480 min breakthrough time), and chemical safety goggles.

Hygiene Measures:

Do not drink, eat or smoke during product manipulation. Keep away from foodstuffs and beverages. Wash hands before breaks and after work.

Respiratory protection

Not required under normal conditions of use. Use suitable respiratory protective device when high concentrations are present. Use suitable respiratory protective device when aerosol or mist is formed. For spills, respiratory protection may be advisable.

Safety Data Sheet

Hi-Yield Muriate of Potash

SECTION 9: Physical and chemical properties

Appearance (physical state, color, etc.)	Granular Solid
Odor	Odorless
Odor threshold	No data available.
pH	5.5-8.0
Melting point/freezing point	1575 °C
Initial boiling point and boiling range	1420°C
Flash point	No data available.
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Upper/lower flammability or explosive limits	No data available.
Vapor pressure	1 mmHg @ 865°C
Vapor density	>1
Relative density	1.987
Solubility(ies)	Water: 357 g/L (25 °C) (only for crystalline material)
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	No data available.
Additional properties	
Physical state	Solid
Color	

SECTION 10: Stability and reactivity

Reactivity

Nonreactive under normal conditions.

Chemical stability

Stable under normal use and storage conditions.

Possibility of hazardous reactions

Contact with strong acid may produce hydrogen chlorine gas.

Conditions to avoid

Store away from oxidizing agents, strong acids or bases. Exposure to moist air or water. Excess heat. Dust generation.

Incompatible materials

Strong oxidizing agents. Bromine trifluoride.

Hazardous decomposition products

None.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Potassium chloride

Result: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Safety Data Sheet

Hi-Yield Muriate of Potash

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

LC50 - Pimephales promelas (fathead minnow) - 880 mg/l - 96 h

NOEC - Pimephales promelas (fathead minnow) - 500 mg/l - 7 d

LOEC - Pimephales promelas (fathead minnow) - 1,000 mg/l - 7 d

EC50 - Daphnia magna (water flea) - >440 mg/l - 48 h

No toxicity data are available for the mixture. Individual components data are presented. None of the components has been listed as a carcinogenic agent.

Compound	Accute oral toxicity (DL50, rat)
KCl	2600 mg/Kg

Skin corrosion/irritation

Can cause skin and eye irritation.

Serious eye damage/irritation

Can cause skin and eye irritation.

Respiratory or skin sensitization

No information available.

Germ cell mutagenicity

No information available.

Carcinogenicity

Not listed as carcinogen.

Reproductive toxicity

No additional information.

Specific target organ toxicity (STOT) - single exposure

No additional information.

Specific target organ toxicity (STOT) - repeated exposure

No additional information.

Aspiration hazard

No additional information.

SECTION 12: Ecological information

Toxicity

Potassium chloride

LC50 - Pimephales promelas (fathead minnow) - 880 mg/l - 96 h

NOEC - Pimephales promelas (fathead minnow) - 500 mg/l - 7 d

Do not discharge into drains and water or public depositories.

LOEC - Pimephales promelas (fathead minnow) - 1,000 mg/l - 7 d

EC50 - Daphnia magna (water flea) - >440 mg/l - 48 h

Persistence and degradability

In aquatic compartments, ions are mobile.

Safety Data Sheet

Hi-Yield Muriate of Potash

Bioaccumulative potential

Bioaccumulation is not expected.

Mobility in soil

Sodium and Potassium binds to clay particles in the soil.

SECTION 13: Disposal considerations

Disposal methods

Product disposal

Contact your local permitted disposal site. Always contact a licensed waste disposal service to assure compliance with all regulations.

Packaging disposal

Empty containers may be reused after appropriate cleansing. Packaging that can not be cleaned should be disposed in agreement with the regional waste disposal company.

Other disposal recommendations

Product/containers must not be disposed together with household garbage. Do not allow product to reach sewage system or open water. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Consult federal state/provincial and local regulations regarding the proper disposal of waste material that may incorporate some amount of this product.

SECTION 14: Transport information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

SARA 302 Components

None.

SARA 311/312 Hazards

Product name: Hi-Yield Muriate of Potash

Toxic Substances Control Act (TSCA) Inventory

Product name: Hi-Yield Muriate of Potash

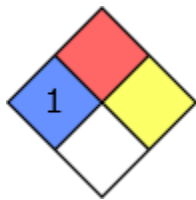
Canadian Domestic Substances List (DSL)

Product name: Hi-Yield Muriate of Potash

NFPA Rating

Safety Data Sheet

Hi-Yield Muriate of Potash



SECTION 16: Other information

No data available.

Further information/disclaimer

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