Material Safety Data Sheet

Potassium perchlorate

ACC# 81883

Section 1 - Chemical Product and Company Identification

MSDS Name: Potassium perchlorate

Catalog Numbers: AC221360000, AC221360250, AC221365000

Synonyms: None.

Company Identification: Acros Organics N.V. One Reagent Lane Fair Lawn, NJ 07410

For information in North America, call: 800-ACROS-01 For emergencies in the US, call CHEMTREC: 800-424-9300

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
	Potassium perchlorate	100	231-912-9
7770-74-7	1 Otassiani peremerate		

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: white solid.

Danger! Strong oxidizer. Contact with other material may cause a fire. Causes respiratory tract irritation. Causes eye and skin irritation. May cause blood abnormalities. May cause kidney damage. Hygroscopic (absorbs moisture from the air).

Target Organs: Blood, kidneys, thyroid.

Potential Health Effects

Eve: Causes eye irritation. Skin: Causes skin irritation.

Ingestion: May cause irritation of the digestive tract. May cause kidney damage. In higher doses as an antithyroid agent, it has been associated with gastric irritation, nausea, vomiting, fever, skin rashes, lymphadenopathy, nephrotic syndrome, and rarely leukpopenia, agranulocytosis,

pancytopenia, and fatal aplastic anemia.

Inhalation: Causes respiratory tract irritation.

Chronic: Prolonged or repeated skin contact may cause dermatitis. May cause anemia and other blood cell abnormalities.

Section 4 - First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.

Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything

by mouth to an unconscious person. Get medical aid.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Notes to Physician: Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Oxidizer. Greatly increases the burning rate of combustible materials.

Extinguishing Media: Use water spray to cool fire-exposed containers. For large fires, use water

spray or fog. For small fires, use dry chemical, carbon dioxide, halon, or water spray.

Flash Point: Not applicable.

Autoignition Temperature: Not available. Explosion Limits, Lower: Not available.

Upper: Not available.

NFPA Rating: (estimated) Health: 2; Flammability: 0; Instability:; Special Hazard: OX

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8. **Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid inquestion and inhalation.

Storage: Keep away from heat, sparks, and flame. Keep away from sources of ignition. Do not store near combustible materials. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use adequate ventilation to keep airborne concentrations low.

Exposure LimitsChemical NameACGIHNIOSHOSHA - Final PELsPotassium perchloratenone listednone listednone listed

OSHA Vacated PELs: Potassium perchlorate: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

Section 9 - Physical and Chemical Properties

Physical State: Solid Appearance: white Odor: Odorless ph: Not available.

Vapor Pressure: Not available. Vapor Density: Not available. Evaporation Rate: Not available.

Viscosity: Not available. **Boiling Point:** Not available.

Freezing/Melting Point:400 deg C (dec)
Decomposition Temperature:> 400 deg C

Solubility: 17 G/L (20°C) Specific Gravity/Density:2.52 Molecular Formula:CIKO4 Molecular Weight:138.55

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: High temperatures.

Incompatibilities with Other Materials: Aluminum + aluminum fluoride, aluminum + barium nitrate + potassium nitrate, aluminum powder + titanium dioxide, barium chromate + tungsten and/or titanium, boron + magnesium + silicon rubber, combustible materials, ethanol, ferrocenium diamminetetrakis (thiocyanato-N) chromate(1-), lavtose, metal powders, potassium hexacyanocobaltate, reductants, sulfur, titanium hydride.

Hazardous Decomposition Products: Hydrogen chloride, oxides of potassium, oxides of chlorine.

Hazardous Polymerization: Will not occur.

Section 11 - Toxicological Information

RTECS#:

CAS# 7778-74-7: SC9700000

LD50/LC50: Not available. Carcinogenicity:

CAS# 7778-74-7: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: No data available. **Teratogenicity:** No data available.

Reproductive Effects: No data available.

Neurotoxicity: No data available. Mutagenicity: No data available. Other Studies: No data available.

Section 12 - Ecological Information

Ecotoxicity: No data available. Fish toxicity: LC50 golden orfe 1850/2800 mg/LLC100 golden orfe

3550/4000 mg/L

Environmental: No information available.

Physical: No information available. **Other:** No information available.

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.
RCRA U-Series: None listed.

Section 14 - Transport Information

	US DOT	Canada TDG	
Shipping Name:	POTASSIUM PERCHLORATE, SOLID	POTASSIUM PERCHLORATE	
Hazard Class:	5.1	5.1	
UN Number:	UN1489	UN1489	
Packing Group:	II	II	

Section 15 - Regulatory Information

US FEDERAL

TSCA

CAS# 7778-74-7 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs

None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

SARA Codes

CAS # 7778-74-7: acute, flammable, reactive.

Section 313 No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depletors. This material does not contain any Class 2 Ozone depletors.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 7778-74-7 can be found on the following state right to know lists: New Jersey, Pennsylvania, Massachusetts.

California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations European Labeling in Accordance with EC Directives Hazard Symbols:

XN O

Risk Phrases:

R 22 Harmful if swallowed.

R 9 Explosive when mixed with combustible material.

Safety Phrases:

S 13 Keep away from food, drink and animal feeding stuffs.

S 22 Do not breathe dust.

S 27 Take off immediately all contaminated clothing.

WGK (Water Danger/Protection)

CAS# 7778-74-7: 1

Canada - DSL/NDSL

CAS# 7778-74-7 is listed on Canada's DSL List.

Canada - WHMIS

This product does not have a WHMIS classification.

Canadian Ingredient Disclosure List

Section 16 - Additional Information

MSDS Creation Date: 9/02/1997 Revision #4 Date: 7/01/2004

The information above is believed to be accurate and represents the best information currently available to us. However, we make

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