

# MATERIAL SAFETY DATA SHEET

For R&D use only. Not for drug, household or other uses.

Click <http://www.lookchem.com/cas-468/4685-14-7.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**

4685-14-7

**Code:**

M

**RTECS:**

DW2275000

**Code:**

M

**Name:**

PARAQUAT

**Other REC Limits:**

NONE RECOMMENDED

**OSHA PEL:**

NOT ESTABLISHED

**Code:**

M

**OSHA STEL:**

**Code:**

**ACGIH TLV:**

NOT ESTABLISHED

**Code:**

M

**ACGIH STEL:**

N/P

**Code:**

## Control Measures

**Respiratory Protection:**

IF NEEDED, USE MSHA-NIOSH APPROVED RESPIRATOR FOR PESTICIDE.

**Ventilation:**

4 THIS PRODUCT IS INTENDED FOR USE OUTDOORS WHERE ENGINEERING CONTROLS ARE NOT NECESSARY. IF DIFFERENT USE ADEQUATE VENTIL.

**Protective Gloves:**

USE IMPERVIOUS GLOVES.

**Eye Protection:**

CHEMICAL TIGHT GOGGLES W/FULL FACESHIELD

**Other Protective Equipment:**

Equipment USE IMPERVIOUS GLOVES, APRONS AND BOOTS. ADDITIONAL PROTECTION MAY BE REQUIRED SUCH AS ARM COVERS FULL BODY SUIT.

**Work Hygienic Practices:**

FOOLOW GOOD HYGIENE PRACTICES TO AVOID SKIN EYE CONTACT, BREATHING VAPORS OR ACCIDENTAL INGESTION. WASH HANDS FACE.

**Supplemental Safety and Health:**

EATING, DRINKING OR SMOKING SHOULD NOT BE ALLOWED IN AREAS WHERE THIS SUBSTANCE IS HANDLED. WORK CLOTHES SHOULD BE LAUNDERED REGULARLY. ALL PROTECTIVE EQUIPMENT SHOULD BE KEPT CLEAN AND STORED PROPERLY. DO NOT ENTER TREATED AREAS WITHOUT PROTECTIVE CLOTHING UNTIL SPRAYS HAVE DRIED.

## Health Hazards Data

**LD50/LC50 Mixture:**

ORAL LD50 (RAT) IS 40-150 MG/KG

**Route Of Entry Inds - Inhalation:**

YES

**Skin:**

YES

**Ingestion:**

YES

**Carcinogenicity Inds - NTP:**

NO

**IARC:**

NO

**OSHA:**

NO

**Health Hazards Acute And Chronic:**

GRAVE POISONING & DEATH HAVE BEEN REPORTED AFTER ACCIDENTAL OR SUICIDAL INGESTION. INGESTION-KIDNEY FAILURE, LIVER COMPLICATIONS & PULMONARY INSUFFICIENCY, DEATH DUE TO RESPIRATORY FAILURE. EYE-SEVERE ACUTE INFLAMMATORY. SKIN-CAN CAUSE SKIN DAMAGE, ERTHEMA, EDEMA & ULCERATION. INHALE-IRRITATION OF UPPER RESPIRATORY.

**Explanation Of Carcinogenicity:**

NOT CARCINOGENIC.

**Signs And Symptoms Of Overexposure:**

INGESTION-BURNING SENSATION, ULCERATION OF THE MOUTH, TONGUE, PHARYNX & ESOPHAGUS; VOMITING, RETCHING & DIARRHEA MAY THEN ENSUE. EYE-CHEMICAL BURNS. SKIN-CRACKING AND SHEDDING OF FINGERNAILS OR TOENAILS. INHALATION-BURNING SENSATION, NOSE BLEEDS, & SORE THROAT.

**Medical Cond Aggravated By Exposure:**

NOT SPECIFIED BY MANUFACTURER.

**First Aid:**

SKIN-REMOVE CONTAMINATED CLOTHING & FOOTWARE. WASH SKIN THOROUGHLY WITH PLENTY OF SOAP & WATER. GET MEDICAL ATTENTION. EYE-IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MIN & HAVE EYES EXAMINED. INGESTION-GIVE 1 OR MORE GLASSES OF WATER TO DRINK & INDUCE VOMITING BY STICKING FINGER DOWN THROAT. REPEAT UNTIL VOMIT IS CLEAR. GET MEDICAL ATTENTION. INHALE-MOVE TO UNCONTAMINATED AREA.

**Spill Release Procedures:**

WEAR EYE PROTECTION, PROTECTIVE CLOTHING & RESPIRATORY PROTECTION DURING CLEANUP. MIX WITH A GENEROUS AMOUNT OF CLAY OR CLAY-CONTAINING SOIL & SHOVEL INTO WASTE CONTAINER. UNTREATED SPILLED MATERIAL CAN DRY TO A HIGHLY IRRITATING DUST.

**Neutralizing Agent:**

NONE SPECIFIED BY MANUFACTURER.

**Waste Disposal Methods:**

3 DO NOT CONTAMINATE WATERWAYS, STREAMS OR PONDS WHEN CLEANING EQUIPMENT OR DISPOSING OF WASTE. ALTHOUGH GRAMOXONE IS NOT A RCRA HAZARDOUS WASTE, IT IS RECOMMENDED THAT THE WASTE BE DISPOSED OF IN A FACILITY PERMITTED FOR HAZARDOUS WASTE.

**Handling And Storage Precautions:**

STORE ABOVE 32F IN ORIGINAL WELL-MARKED CONTAINERS AWAY FROM FEED OR FOOD. MATERIAL IS TOXIC TO WILDLIFE. KEEP AWAY FROM LAKES, STREAMS AND PONDS.

**Other Precautions:**

EMPTY CONTAINER RETAIN PRODUCT RESIDUE. OBSERVE ALL HAZARD PRECAUTIONS. DO NOT DISTRIBUTE, MAKE AVAILABLE, FURNISH OR REUSE EMPTY CONTAINER EXCEPT FOR STORAGE AND SHIPMENT OF ORIGINAL PRODUCT.

## Fire and Explosion Hazard Information

**Flash Point Method:**

N/P

**Flash Point:**

**Flash Point Text:**

DOES NOT FLASH.

**Autoignition Temp:**

NO DATA

**Lower Limits:**

N/R

**Upper Limits:**

N/R

**Extinguishing Media:**

NOT APPLICABLE. USE MEDIA SUITABLE FOR SURROUNDING FIRE, MINIMIZE USE OF WATER TO AVOID ENVIRONMENTAL CONTAMINATION.

**Fire Fighting Procedures:**

SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE & PROTECTIVE CLOTHING IF INVOLVED IN A FIRE OF OTHER MATERIALS.

**Unusual Fire/Explosion Hazard:**

Possible TOXIC SMOKE, VAPORS, FALLOUT & RUNOFF WATER CAN RESULT FROM FIRES DEPENDING ON EXTENT OF COMBUSTION & PRESENCE OF OTHER COMBUSTIBLE MATERIALS.

## Physical/Chemical Properties

**T<sub>CC</sub>:**

T2

**NRC/State Lic No:**

N/R

**Net Prop WT For Ammo:**

NO DATA

**Boiling Point:**

NO DATA

**B.P. Text:**

214F,101C

**Melt / Freeze Pt:**

NO DATA

**M.P./F.P. Text:**

N/K

**Decomp Temp:**

NO DATA

**Decomp Text:**

N/K

**Vapor Pres:**

24.9

**Vapor Density:**

NO DATA

**Volatile Org Content %:**

NO DATA

**Spec Gravity:**

1.12

**VOC Pounds/Gallon:**

NO DATA

**PH:**

5

**VOC Grams/Liter:**

NO DATA

**Viscosity:**

N/K

**Evaporation Rate & Reference:**

N/K

**Solubility in Water:**

SOLUBLE

**Appearance and Odor:**

DARK LIQUID WITH STRONG, PUNGENT ODOR.

**Percent Volatiles by Volume:**

61

**Corrosion Rate:**

N/K

## Reactivity Data

**Stability Indicator:**

YES

**Decomposition Temp To:**

DECOMPOSES AT 300C

DECOMPOSES AT 300C

**Hazardous Decomposition Products:**

CARBON DIOXIDE, CARBON MONOXIDE, NITROGEN OXIDES, AMMONIA, HALOGENS, HALOGEN ACIDS.

**Hazardous Polymerization Indicator:**

NO

**Conditions To Avoid Polymerization:**

NONE

## Toxicological Information

**Information:**

N/P

## MSDS Transport Information

**Information:**

N/P

## Regulatory Information

**Sara Title III Information:**

N/P

**Federal Regulatory Information:**

N/P

**State Regulatory Information:**

N/P

## Other Information

**Other Information:**

N/P

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