



SAFETY DATA SHEET

Print date: 07/27/2017

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Revision Number: 1

1. IDENTIFICATION

Product identifier

Product Name: PRIMECOAT 8600
Product code: 016762-03

Other means of identification

Synonyms No information available

Application

Recommended Use Corrosion Preventive
Uses advised against For industrial use only

Supplier/Manufacturer:

Supplier:
Quaker Chemical Corporation
Quaker Park One
901 Hector Street
Conshohocken, PA 19428
610-832-4000
E-mail: she@quakerchem.com

Emergency telephone number:

* 24 HOUR TRANSPORTATION:
**CHEMTREC: 1-800-424-9300
+703-527-3887 (Call collect outside of US)
* 24 HOUR EMERGENCY HEALTH & SAFETY:
**QUAKER CHEMICAL CORPORATION: (800) 523-7010
(Within US only) Outside of US call (703) 527-3887

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Respiratory Sensitization	Category 1A
Skin Sensitization	Category 1
Germ cell mutagenicity	Category 1B
Carcinogenicity	Category 1B
Reproductive toxicity	Category 1B
Chronic aquatic toxicity	Category 3

Label Elements

Emergency Overview

DANGER

Hazard Statements

May cause allergy or asthma symptoms or breathing difficulties if inhaled

May cause an allergic skin reaction
May cause genetic defects
May cause cancer
May damage fertility or the unborn child
Harmful to aquatic life with long lasting effects



Appearance Yellow

Physical State Liquid

Odor Odorless

Precautionary Statements - Prevention

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Avoid breathing dust/fume/gas/mist/vapors/spray
In case of inadequate ventilation wear respiratory protection
Contaminated work clothing should not be allowed out of the workplace
Wear protective gloves
Avoid release to the environment

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention
Specific treatment (see First Aid on this label)
IF ON SKIN: Wash with plenty of water and soap If skin irritation or rash occurs: Get medical advice/attention Wash contaminated clothing before reuse
IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None known

Other Information

May be harmful if swallowed. Harmful to aquatic life.

Unknown acute toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%
Ammonium dichromate	7789-09-5	<1%
Alcohols, C16-18, ethoxylated	68439-49-6	<1%
Triethylamine	121-44-8	<1%

Ammonium hydroxide	1336-21-6	<1%
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The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

General advice:	Show this safety data sheet to the doctor in attendance. Remove contaminated clothing and shoes. Wash contaminated clothing before re-use. Wash off with soap and water. If symptoms persist, call a physician
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Skin contact:	Remove and wash contaminated clothing before re-use. Wash off immediately with soap and plenty of water. If a person feels unwell or symptoms of skin irritation appear, consult a physician.
Ingestion:	If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person
Inhalation:	Move to fresh air in case of accidental inhalation of vapors. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult a physician.
Note to physician:	Treat symptomatically.
Medical condition aggravated by exposure:	None known.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Use dry chemical, CO2, water spray or `alcohol` foam. Do not use water with full jet.
Specific hazards:	Do not allow material to contaminate ground water system.
Special protective equipment for fire-fighters:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear
Specific methods:	Water mist may be used to cool closed containers

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Ensure adequate ventilation. Do not breathe vapour/dust. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling.
Environmental precautions:	Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so.
Methods for cleaning up:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Handling

Technical measures/precautions:

Provide sufficient air exchange and/or exhaust in work rooms.

Safe handling advice:

In case of insufficient ventilation, wear suitable respiratory equipment. Do not breathe vapors or spray mist. Wear personal protective equipment. Avoid contact with skin and eyes. Wash thoroughly after handling.

Storage

Technical measures/storage conditions:

Store at room temperature in the original container.

Incompatible products:

Strong oxidizing agents

Safe storage temperature:

40 - 100 ° F

Shelf life:

6 months

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	ACGIH Exposure Limits	OSHA TWA (final)	NIOSH - Pocket Guide
Ammonium dichromate	0.05 mg/m ³ (TWA) Cr	5 µg/m ³	0.0002 mg/m ³ (TWA)
Triethylamine	0.5 ppm (TWA) 1 ppm (STEL)	25 ppm 100 mg/m ³	None

Engineering measures:

Ensure adequate ventilation

Personal Protective Equipment:

General:

Provide easy access to eyewash/safety shower facilities.

Respiratory protection:

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, respiratory protection may be required. Contact your site safety representative for proper respirator selection.

Eye protection:

Wear safety glasses with side shields (or goggles)

Hand protection:

Wear chemical-resistant gloves as appropriate for the risk of exposure. Contact your safety department for specific recommendations

Skin and body protection:

Long sleeved clothing, Chemical resistant apron, Wear protective clothing and appropriate footwear necessary for the risk of exposure. Contact your health and safety department for specific recommendations

Hygiene measures:

Handle in accordance with sound chemical hygiene practices. Wear the appropriate PPE. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Do not eat, drink, or smoke while using chemicals.



9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Yellow
Odor	Odorless
Odor Threshold	No information available
pH concentrate:	8.2
pH Dilution	No information available
Melting/freezing point	No information available
Boiling Point/Range	No information available
Flash Point	Does not flash
Method	No information available
Evaporation rate	No information available
Flammability Limits in Air	
upper flammability limit	No information available
lower flammability limit	No information available
VOC Content Product (lb/gal)	No information available
Vapor pressure	No information available
Vapor density	No information available
Specific Gravity (g/cc, 15 C)	1.015
Bulk Density (lb/gal, 15 C)	8.47
Water Solubility	Soluble in water
Solubility in other solvents	No information available
Partition coefficient: n-octanol/water	No information available
Autoignition temperature	No information available

Decomposition Temperature	No information available
Kinematic viscosity	No information available
Dynamic viscosity	No information available
Molecular Weight	No information available

10. STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions.
Conditions to avoid:	None known.
Materials to avoid:	Strong oxidizing agents.
Hazardous decomposition products:	None under normal use.
Hazardous Polymerization:	No information available.

11. TOXICOLOGICAL INFORMATION

No toxicological information is available on the product. Data obtained on components are summarized below.

Information on likely routes of exposure

Inhalation	May cause sensitization by inhalation.
Eye Contact	Contact with eyes may cause irritation.
Skin Contact	May cause sensitization by skin contact.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ammonium dichromate	= 48 mg/kg (Rat) Oral LD50 Rat 48 mg/kg (Source: JAPAN_GHS)	= 1860 mg/kg (Rabbit) Dermal LD50 Rabbit 1860 mg/kg (Source: JAPAN_GHS)	= 0.2 mg/L (Rat) 4 h Inhalation LC50 Rat 0.2 mg/L 4 h (mist, Source: JAPAN_GHS)
Alcohols, C16-18, ethoxylated	= 1260 mg/kg (Rat) Oral LD50 Rat 1260 mg/kg (Source: NLM_CIP)	-	-
Triethylamine	= 460 mg/kg (Rat) Oral LD50 Rat 460 mg/kg (Source: JAPAN_GHS)	= 415 mg/kg (Rabbit) Dermal LD50 Rabbit 415 mg/kg (Source: JAPAN_GHS)	= 1250 ppm (Rat) 4 h Inhalation LC50 Rat 1250 ppm 4 h (Source: JAPAN_GHS)
Ammonium hydroxide	= 350 mg/kg (Rat) Oral LD50 Rat 350 mg/kg (Source: NLM_CIP)	-	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen

Chemical Name	IARC Carcinogens	NTP	OSHA - Select Carcinogens
Ammonium dichromate	Group 1	Known Carcinogen	Present
Alcohols, C16-18, ethoxylated	Not listed	Not listed	Not listed
Triethylamine	Not listed	Not listed	Not listed
Ammonium hydroxide	Not listed	Not listed	Not listed

Sensitization Product contains a component that is classified as a skin sensitizer. No studies have been conducted on the product itself.

Mutagenic effects: Product contains a component that is classified as a mutagen. No testing has been conducted on the product itself.

Reproductive Toxicity Product contains a component that is classified as a reproductive hazard. No testing has been conducted on the product itself.

Developmental Toxicity No information available.

Teratogenic No information available.

Specific target organ systemic toxicity (single exposure) No information available.

Specific target organ systemic toxicity (repeated exposure) No information available.

Aspiration hazard No information available.

Additional information on toxicological effects

Overexposure to certain chromium compounds may result in irreversible respiratory and other target organ diseases based on tests with laboratory animals. Under the National Toxicology Program, chromium and certain chromium compounds are listed as carcinogens.

12. ECOLOGICAL INFORMATION

Chemical Name	Ecotoxicity - Fish Species Data:	Ecotoxicity - Freshwater Algae Data:	Ecotoxicity - Water Flea Data:
Ammonium dichromate	No data	No data	No data
Alcohols, C16-18, ethoxylated	No data	No data	No data
Triethylamine	= 44 mg/L LC50 fathead minnow	=200mg/L	EC50 (Daphnia magna - 48h) = 200 mg/L
Ammonium hydroxide	= 8.2 mg/L LC50	=0.66mg/L	EC50 (Daphnia pulex - 48h) = 0.66 mg/L EC50 (water flea - 48h) = 0.66 mg/L

50.68% of the mixture consists of component(s) of unknown hazards to the aquatic environment

Persistence and Degradability No information available.

Bioaccumulation No information available.

Chemical Name	Octanol/water partition coefficient
Ammonium dichromate	-
Alcohols, C16-18, ethoxylated	-
Triethylamine	1.45
Ammonium hydroxide	-

Mobility: No data available

Ozone: No data available

13. DISPOSAL CONSIDERATIONS

Waste from residues/unused products: Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority.

Contaminated packaging: Do not re-use empty containers

Methods for cleaning up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust) Sweep up and shovel into suitable containers for disposal

Chemical Name Ammonium dichromate
7789-09-5

RCRA - Hazardous Constituents - Appendix:	hazardous constituent - no waste number
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Chemical Name Triethylamine
121-44-8

RCRA - Hazardous Constituents - Appendix:	waste number U404
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14. TRANSPORT INFORMATION

U. S. DEPARTMENT OF TRANSPORTATION:

Proper shipping name: Not Regulated

TDG (CANADA):

Proper shipping name: Not Regulated

IMDG/IMO:

Proper shipping name: Not Regulated

IATA/ICAO:

Proper shipping name: Not Regulated

15. REGULATORY INFORMATION

Federal Regulations

OSHA Hazard Communication Standard:

This product is considered to be hazardous under the OSHA Hazard Communication Standard.

CERCLA/SARA Information:**SARA (311, 312) hazard class:** This product possesses the following SARA Hazard Categories:

Immediate Health (Acute): Yes
Delayed Health (Chronic): Yes
Flammability: No
Pressure: No
Reactivity: No

Chemical Name	Hazardous Substances and RQs	Extremely Hazardous Substances and TPQs	SARA 313 Emission Reporting
Ammonium dichromate	10 lb	Not listed	0.1 % 1.0 %
Alcohols, C16-18, ethoxylated	Not listed	Not listed	Not listed
Triethylamine	5000 lb	Not listed	1.0 %
Ammonium hydroxide	1000 lb	Not listed	1.0 %

Clean Air and Clean Water Acts:

Chemical Name	Hazardous Air Pollutants	CWA - Hazardous Substances	CWA - Toxic Pollutants	CWA - Priority Pollutants
Ammonium dichromate	Present	Listed	Listed	Not listed
Alcohols, C16-18, ethoxylated	Not listed	Not listed	Not listed	Not listed
Triethylamine	Present	Listed	Not listed	Not listed
Ammonium hydroxide	Not listed	Listed	Not listed	Not listed

U.S. STATE REGULATIONS (RTK):

Chemical Name	California Proposition 65	PARTK	MI Critical Materials	NJRTK	MARTK
Ammonium dichromate	carcinogen male reproductive toxicity developmental toxicity	Environmental hazard Special hazardous substance Present	100 lb	0097 3575 2245	Present
Alcohols, C16-18, ethoxylated	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Triethylamine	Not Listed	environmental hazard	Not Listed	sn 1907	Present
Ammonium hydroxide	Not Listed	Environmental hazard	Not Listed	0103	Present

CANADIAN REGULATIONS:

Chemical Name	CEPA Schedule I	Challenge Substances
Ammonium dichromate	Listed	Not listed
Alcohols, C16-18, ethoxylated	Not listed	Not listed
Triethylamine	Listed	Not listed
Ammonium hydroxide	Not listed	Not listed

INVENTORY STATUS:

United States TSCA Inventory: This product complies with TSCA

Canada DSL/NDSL Inventory List This product complies with DSL

16. OTHER INFORMATION

Sources of key data used to compile Material safety data sheets of the ingredients.
the data sheet:

Prepared by: Quaker Chemical Corporation -Safety, Health and Environmental Affairs Group - US

Revision Date: 07/27/2017

Reason for revision: New modification.

Personal protection recommendations should be reviewed by purchasers. Workplace conditions are important factors in specifying adequate protection.

Disclaimer

This product's safety information is provided to assist our customers in assessing compliance with safety/health/environmental regulations. The information contained herein is based on data available to us and is believed to be accurate. However, no warranty of merchantability, fitness for any use, or any other warranty is expressed or implied regarding the accuracy of this data, the results to be obtained from the use thereof, or the hazards connected with the use of the product. Since the use of this product is within the exclusive control of the user, it is the user's obligation to determine the conditions for safe use of the product. Such conditions should comply with all regulations concerning the product. The company referenced in this Safety Data Sheet assumes no liability for any injury or damage, direct or consequential, resulting from the use of this product unless such injury or damage is attributable to the gross negligence of such company.

End of Safety Data Sheet