

W-100, W-206, W-207, W-209, W-211, W-350

SDS Number:

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1 PRODUCT AND COMPANY IDENTIFICATION

Manufacturer

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Product Name: W-100, W-206, W-207, W-209, W-211, W-350
Revision Date: 8/1/2016
Version: 2.0
Product Code: W-100, W-206, W-207, W-209, W-211, W-350

EMERGENCY CONTACT: Call PERS: 1-800-633-8253 (USA & Canada) or 001-1-801-629-0667 (International).

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2 HAZARDS IDENTIFICATION

Route of Entry: Inhalation, Ingestion, Skin Absorption, Eye Contact

Target Organs: Respiratory System, Integumentary System, Digestive System and Nervous System.

Inhalation: May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system. May cause shortness of breath and breathing difficulties.

Skin Contact: Causes severe burns. May cause pain, irritation, redness and blistering.

Eye Contact: Causes serious eye damage. May cause pain, watering and redness.

Ingestion: Toxic if swallowed. Corrosive to the digestive tract. Causes burns. May cause burns to mouth, throat and stomach and may cause stomach pains.

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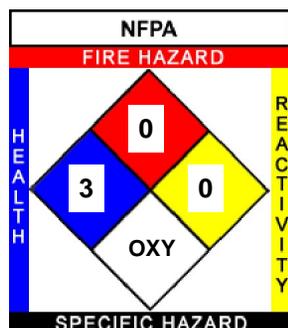
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NFPA:
HMIS III:

Health = 3, Fire = 0, Reactivity = 0
H*3/F0/P0



HMIS III	
HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARDS	0
PERSONAL PROTECTION H Splash Goggles, Gloves, Apron, Vapor Respirator	

GHS Signal Word:
DANGER

GHS Hazard Pictograms:



GHS Classifications:

- Health, Acute toxicity, 3 Oral
- Health, Skin corrosion/irritation, 1 A
- Health, Carcinogenicity, 1
- Health, Serious Eye Damage/Eye Irritation, 1
- Health, Specific target organ toxicity - Single exposure, 3
- Environmental, Hazards to the aquatic environment - Acute, 1
- Health, Reproductive toxicity, 1
- Health, Germ cell mutagenicity, 1

GHS Phrases:

- H301 - Toxic if swallowed
- H314 - Causes severe skin burns and eye damage
- H350 - May cause cancer
- H318 - Causes serious eye damage
- H335 - May cause respiratory irritation
- H400 - Very toxic to aquatic life
- H360 - May damage fertility or the unborn child
- H340 - May cause genetic defects

GHS Precautionary Statements:

- P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking
- P211 - Do not spray on an open flame or other ignition source.
- P232 - Protect from moisture.
- P240 - Ground/bond container and receiving equipment.
- P241 - Use explosion-proof electrical/ventilating/light/equipment.
- P242 - Use only non-sparking tools.
- P243 - Take precautionary measures against static discharge.
- P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
- P262 - Do not get in eyes, on skin, or on clothing.
- P264 - Wash hands thoroughly after handling.

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- P270 - Do not eat, drink or smoke when using this product.
- P272 - Contaminated work clothing should not be allowed out of the workplace.
- P273 - Avoid release to the environment.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P281 - Use personal protective equipment as required.
- P284 - Wear respiratory protection.
- P301+310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P302 - IF ON SKIN: Seek immediate medical attention.
- P302+352 - IF ON SKIN: Wash with soap and water.
- P303+361+353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304 - IF INHALED: Seek immediate medical attention.
- P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305 - IF IN EYES: Seek immediate medical attention. Contact lenses should not be worn. Flush eyes for at least 15 minutes.
- P306+360 - IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
- P307+311 - IF exposed: Call a POISON CENTER or doctor/physician.
- P315 - Get immediate medical advice/attention.
- P362 - Take off contaminated clothing and wash before reuse.
- P370+376 - In case of fire: Stop leak if safe to do so.
- P370+378 - In case of fire: Use Class B or Class D extinguishers (never use water) for extinction.
- P370+380 - In case of fire: Evacuate area.
- P370+380+375 - In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.
- P381 - Eliminate all ignition sources if safe to do so.
- P402+404 - Store in a dry place. Store in a closed container.
- P403+233 - Store in a well ventilated place. Keep container tightly closed.
- P403+235 - Store in a well ventilated place. Keep cool.
- P410+403 - Protect from sunlight. Store in a well ventilated place.
- P411 - Store at temperatures not exceeding 30 °C/86 °F.
- P420 - Store away from other materials.
- P501 - Dispose of contents/container to licensed waste facility.

May cause carcinoma or malignant neoplasm.

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COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Cas #	Percentage	Chemical Name
1333-82-0	5-10%	Chromium (VI)trioxide, anhydrous
7429-90-5	30-50%	Aluminum (fume or dust)
14808-60-7	0-10%	Silica, crystalline
7631-86-9	1-2%	Silica, amorphous
1344-28-1	2-3%	Aluminum oxide (Al ₂ O ₃)
7664-38-2	10-35%	Phosphoric acid
	<10%	Phosphoric acid, reaction products with aluminum hydroxide and chromium oxide.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as significantly hazardous to health or the environment and hence require reporting in this section.

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FIRST AID MEASURES

Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. Seek immediate medical attention - call a poison center or a physician. If it is suspected fumes are still present, the rescuer should wear a self contained breathing apparatus. If breathing is difficult, have trained person administer oxygen. If breathing stops, have trained person administer artificial respiration. Maintain an open airway. Loosen tight clothing. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in the recovery position.

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- Skin Contact:** Seek immediate medical attention - call a poison center or a physician. Rinse all contaminated clothing and skin immediately with plenty of water. Remove all contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Wash skin with soap and water, then continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash all clothing and shoes thoroughly before re-use.
- Eye Contact:** Seek immediate medical attention - call a poison center or a physician. Contact lenses should not be worn when using product. Immediately flush with water, forcibly holding eyelids apart. Continue to rinse for at least 15 minutes. Chemical burns must be treated promptly by a physician.
- Ingestion:** Seek immediate medical attention - call a poison center or a physician. Rinse mouth out. Remove dentures if any. Remove to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the victim is conscious, give small quantities of water to drink. Stop if victim feels sick, as vomiting may be dangerous. Only induce vomiting at the instruction of medical personnel. If vomiting occurs, keep head low so vomit does not enter the lungs. Never induce vomiting or give anything by mouth to an unconscious or convulsing person. Maintain an open airway. Loosen tight clothing. If unconscious, place in the recovery position. Chemical burns must be treated promptly by a physician.

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FIRE FIGHTING MEASURES

Flash Point: N/A (Product does not sustain combustion).

Extinguishing Media:

Use an extinguishing agent (Class B or D) suitable for the surrounding fire.

Fire Fighting Procedures:

Evacuate all unnecessary personnel. No action shall be taken involving any personal risk or without suitable training. Shut down motors, pumps, electrical service, and eliminate sources of ignition if safe to do so. Move containers from fire area if it can be done without risk. If fire occurs, isolate area, contain and eliminate fire, then dispose of debris in accordance with official regulations. Stay upwind of material at all times. Wear self-contained breathing apparatus and full protective clothing.

Take care when applying Class B extinguishers, as some agents can accelerate a fire where most of the liquid carrier has been consumed and the aluminum particulates have begun to burn. If it becomes apparent the metal has begun to burn, do not extinguish the fire. Isolate the fire by ringing it with dry, inert granular material and leave it alone.

Fire and Explosion Hazard:

Oxidizing material. May intensify fire. In a fire or if heated, a pressure increase will occur and the container may burst. If product mixes with water, hydrogen gas (which is flammable and explosive) may form.

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ACCIDENTAL RELEASE MEASURES

Personal Precautions:

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas, and keep all unnecessary personnel from entering. Eliminate all sources of ignition if safe to do so. Wear proper personal protective equipment (see section 8), especially a self-contained breathing apparatus. Do not touch or walk through spilled material. Provide adequate ventilation and avoid breathing vapors. Ground all equipment used.

Environmental Precautions:

Contain liquids and prevent discharge into streams, soil, waterways, drains and sewers. If material mixes with water, hydrogen gas (which is flammable and explosive) may form. Control or stop the loss of volatile material to the atmosphere. Spills should be reported to the appropriate local, state, or federal agencies. In case of major release or road spill notify CHEMTREC USA at 1(800) 424-9300.

Remove all sparking devices or ignition sources. Product is flammable. Stop leak if without risk. Move containers from spill area. Approach spill from upwind. Cover with an inert, noncombustible absorbent, such as vermiculite, perlite, ground clay, or sand; sweep up, and dispose according to local, state and federal regulations. Contaminated absorbent may pose the same hazard as spilled material does. Use spark proof tools and explosion proof equipment. Dispose of via a licensed waste disposal contractor.

Reduce Chromium(VI) to Chromium(III) using sodium sulphite or sodium bisulphite and ferrous sulphite or ferrous chloride. Precipitate Chromium(III) by neutralizing to pH 9.5 with sodium bicarbonate, soda ash or lime. Filter and neutralize the remaining liquid to pH 7.0. Do

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not allow to dry out.

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HANDLING AND STORAGE

Handling Precautions:

Avoid vapor formations and use with adequate ventilation.
 Avoid breathing fumes.
 Vapors are heavier than air and will tend to collect in low areas. Avoid use in confined spaces.
 Avoid bodily contact with material.
 Wear appropriate personal protective equipment.
 Wash thoroughly after handling, avoid contact with eyes.
 No eating, drinking or smoking near areas where substance is handled, processed or stored.
 Ground coating equipment and containers at all times.
 Use non sparking tools.
 Isolate, vent, drain, wash and purge systems or equipment before maintenance or repair.
 Clean spills immediately.

Storage Requirements:

Keep away from heat, static electricity discharges and all sources of ignition.
 Avoid moisture and extreme temperatures (do not store below 42 oF or above 86 oF).
 Avoid shock and friction.
 Store in a cool, dry well ventilated area away from direct sunlight.
 Do not allow cross-contamination, and keep away from incompatible materials (such as alkalis, reducing agents and combustible materials).
 Keep tightly closed when not being used, but vent carefully before using.
 Store locked up.
 Label all containers appropriately.
 Do not reuse containers.
 Do not store near food or drinks.
 Avoid excessive aging.
 Store in accordance with local regulations.

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EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

Adequate room ventilation plus local exhaust at points of emission to maintain levels of airborne contaminants below exposure limits. Assure ACGIH TWA and OSHA PEL limits of Chromium(VI) Trioxide (0.05 mg/m³, 0.1 mg/m³) are maintained. Use of fume hoods or closed booths recommended when product is used in a manner that may generate mist or aerosol. Use explosion proof electrical/ventilation/lighting equipment.

Personal Protective Equip:

HMIS PP, H | Splash Goggles, Gloves, Apron, Vapor Respirator
 HMIS PP, F | Goggles, Chemical Resistant Gloves, Apron (protective chemical resistant suit recommended along with apron), Dust Respirator.

Respiratory: Wear an appropriate, properly fitted air respirator (NIOSH/MSHA approved) during and after application of product. Follow respirator manufacturer's directions for respirator use. Full face respirator may be required. N series respirator recommended at a bare minimum.

Hands: Butyl Rubber protective gloves (1-4 hours breakthrough time) or other chemical-resistant, impervious gloves should be worn at all times.

Eyes: Chemical splash goggles and/or face shield to avoid exposure to liquid splashes, mists or dusts.

Skin: Protective clothing - Chemical Resistant Protective Suit recommended. Remove all used or contaminated clothing before entering eating areas.

Appropriate footwear is recommended before handling of this product.

Emergency shower and eyewash facility should be in close proximity. Employ proper hygienic measures (such as washing hands, forearms and face) after working with material and before eating, smoking or using the lavatory. Appropriate techniques should be used to remove contaminated clothing. Fully wash any contaminated clothing.

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Emissions from ventilation or work process equipment should be checked to ensure they comply with the regulations of environmental protection legislation.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Dark Grey Liquid	Odor:	Mild
Physical State:	Liquid (solid ceramic after cure process)	Solubility:	Easily soluble in cold water.
Spec Grav./Density:	1.51		
Boiling Point:	212 oF		
Flammability:	Do not store below 32 oF or above 95 oF		
pH:	2		
Evap. Rate:	<1		
Decomp Temp:	>995 oF		

10 STABILITY AND REACTIVITY

Stability: Stable.

Conditions to Avoid: Contact with combustible materials and drying on clothing.

Materials to Avoid: Alkalis, combustible materials and reducing materials. Attacks many metals producing extremely flammable hydrogen gas which can form explosive materials with air.

Hazardous Decomposition: May contain phosphorus oxides and metal oxide(s).

Hazardous Polymerization: Will not occur.

11 TOXICOLOGICAL INFORMATION

Ingredient	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
Chromium(VI) Trioxide	A1	1	A	+	Proven	+

Chromium(VI) Trioxide (Rat, LD50 Oral): 80 mg/kg

Oral ATE value: 92.26 mg/kg

12 ECOLOGICAL INFORMATION

Water hazard Category 1: Extremely hazardous for water and toxic to aquatic organisms. Avoid disposal in landfills and sewage systems and release into water sources.

Result	Species	Exposure
Acute IC50 1.54 mg/l Fresh water	Algae - Dictyosphaeriumchlorelloides – Exponential growth phase	72 hours
Acute LC50 145 µg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
Acute LC50 162 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
Acute LC50 21000 µg/l Fresh water	Fish - Colisa fasciata - Adult	96 hours

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13 DISPOSAL CONSIDERATIONS

It is the waste generator's responsibility to determine how disposal must occur. Disposal should be made in accordance to federal, state, and local regulations. Minimize or avoid the generation of waste whenever possible. Dispose of waste, unused material and empty containers in a licensed facility. Do not discharge into drains, surface waters or groundwater. Care should be taken when handling emptied containers that have not been rinsed out.

14 TRANSPORT INFORMATION

DOT Class: Corrosive (8) #8
UN #: 1760

US DOT:

Proper Shipping Name: Corrosive Liquids, n.o.s. (chromium (VI) trioxide, Phosphoric acid)

Hazard Class: 8

Environmental Hazards: :No

UN Number: 1760

Packing Group: III

IATA:

Proper Shipping Name: Corrosive Liquids, n.o.s. (chromium (VI) trioxide, Phosphoric acid)

Hazard Class: 8

Environmental Hazards: No

UN Number: 1760

Packing Group: III

15 REGULATORY INFORMATION

U.S. Federal Regulations: TSCA 6 Final Risk Management/TSCA 12(b) One Time Export - Chromium(VI) Trioxide.

U.S. Federal Regulations: TSCA 8b - All components listed or exempted.

Clean Water Act (CWA) 307: chromium (VI) trioxide

Clean Water Act (CWA) 311: Phosphoric acid

Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs): Listed

Clean Air Act Section 602 Class I Substances: Not Listed

Clean Air Act Section 602 Class II Substances: Not Listed

SARA 302/304: Composition/information on ingredients: No Product were found.

SARA 304 RQ: Composition: Not applicable.

SARA 311/312:

Classification: Immediate (acute) health hazard. Delayed (chronic) health hazard.

Product contains chemicals subject to the reporting requirements of SARA 313: Aluminum powder (stabilized) 30% - 60%, Chromium(VI) Trioxide 1% - 5%.

California Proposition 65:

WARNING: This product contains the following chemical(s) known to the state of California to cause cancer and birth defects, or other reproductive harm: Chromium(VI) Trioxide; Silica; Crystalline.

Cancer: Yes

Reproductive: Yes

No significant risk level: 0.001 u/g/day (inhalation)

Maximum acceptable dosage Level: No

Substances of Very High Concern: Product contains a substance of very high concern (SVHC): Chromium(VI) Trioxide:

Intrinsic property: Carcinogen.

Status: Candidate

Reference number ED/95/2010

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Date of revision: 2010

Intrinsic property: Mutagen
Status: Candidate
Reference number: ED/95/2010
Date of Revision: 12/15/2010

Canadian DSL Inventory Status: All components of this product are listed on the Canadian DSL Inventory List.

- *Chromium trioxide, anhydrous (1333820 5-10%) MASS, PA, TSCA
- *Aluminum (fume or dust) (7429905 30-50%) EPCRAWPC, MASS, NJHS, OSHAWAC, PA, SARA313, TSCA, TXAIR
- *Silica, crystalline (14808607 0-10%) MASS, NRC, OSHAWAC, PA, TSCA, TXAIR
- *Silica, amorphous (7631869 1-2%) MASS, NJHS, PA, TSCA
- *Aluminum oxide (Al₂O₃) (1344281 2-3%) MASS, NJHS, OSHAWAC, PA, SARA313, TSCA, TXAIR
- *Phosphoric acid (7664382 10-35%) CERCLA, CSWHS, EPCRAWPC, MASS, NJHS, OSHAWAC, SARA313, TSCA, TXAIR
- *Phosphoric acid (7664382 <10%) CERCLA, CSWHS, EPCRAWPC, MASS, NJHS, OSHAWAC, SARA313, TSCA, TXAIR

REGULATORY KEY DESCRIPTIONS

MASS = MA Massachusetts Hazardous Substances List
PA = PA Right-To-Know List of Hazardous Substances
TSCA = Toxic Substances Control Act
EPCRAWPC = EPCRA Water Priority Chemicals
NJHS = NJ Right-to-Know Hazardous Substances
OSHAWAC = OSHA Workplace Air Contaminants
SARA313 = SARA 313 Title III Toxic Chemicals
TXAIR = TX Air Contaminants with Health Effects Screening Level
NRC = Nationally Recognized Carcinogens
CERCLA = Superfund clean up substance
CSWHS = Clean Water Act Hazardous substances

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OTHER INFORMATION

U.S. Federal Regulations:

OSHA Standard 29 CFR 1910.1200 requires that information be provided to employees regarding the hazards of chemicals by means of hazard communication program including labeling, material safety data sheets, training and access to written records. We request that you (as it is your legal duty to) make all information in this Safety Data Sheet available to all your employees.

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