

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Formula 524 Citrus Plus
PRODUCT USE: Car wash
MANUFACTURED FOR: Warsaw Chemical Holdings LLC.
 P.O. Box 858
 Warsaw, IN 46581
INFORMATION PHONE: Tel: 1-800-548-3396
 Fax: 1-574-267-3884
EMERGENCY PHONE: INFOTRAC
 1-800-535-5053 USA & Canada
 352-323-3500 International

SECTION 2 - HAZARD(S) IDENTIFICATION

CLASSIFICATION: Acute Toxicity - Oral: Category 4
 Eye Damage: Category 2B

PICTOGRAMS:



GHS ELEMENTS:

SIGNAL WORD: Warning

HAZARD STATEMENT(S): H302 | Harmful if swallowed.
 H320 | Causes eye irritation.

PRECAUTIONARY STATEMENT(S): P264 | Wash any exposed body parts thoroughly after handling.
 P270 | Do not eat, drink or smoke when using this product.
 P301 + P312 | IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
 P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P330 | Rinse mouth.
 P337 + P313 | If eye irritation persists: Get medical advice/attention.
 P501 | Dispose of contents/container to appropriate waste disposal entity in accordance with local/regional/national/international regulation.

ADDITIONAL PRECAUTIONS: None Known

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT

CAS #

PERCENT

2-Butoxyethanol	111-76-2	5 - 10%
Sodium Laureth Sulfate	9004-82-4	5 - 10%
Alkybenzenesulfonic Acid	68584-22-5	5 - 10%
Sodium Hydroxide 50%	1310-73-2	1 - 5%
Nonylphenol ethoxylate	127087-87-0	1 - 5%
Sodium Hexametaphosphate	68915-31-1	1 - 5%
Solvent	94266-47-4	< 1.0%
Fragrance	Not Available	< 1.0%
Tetrasodium EDTA	64-02-8	< 1.0%
Alkyl dimethyl ammonium chloride	68424-85-1	< 1.0%
#328 Sunflower Yellow Dye	Not Available	< 1.0%

The chemical identity of some or all components is confidential business information (trade secret) and is being withheld as permitted by 29CFR19191200 (i). No other ingredients known to be hazardous.

SECTION 4 - FIRST AID MEASURES

EYES:	Check for and remove contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
SKIN:	Wash skin surfaces thoroughly after contact. Wash clothing and clean shoes thoroughly before reuse. Get medical attention if irritation develops.
INHALATION:	Move exposed person to fresh air. If breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen clothing. Get medical attention immediately.
INGESTION:	Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.
GENERAL:	Physicians: No specific treatment. Treat symptomatically. Contact poison treatment specialist if large quantities have been inhaled or ingested.

See Section 11 for exposure symptoms.

SECTION 5 - FIRE FIGHTING MEASURES

FLAMMABILITY:	In a fire or if heated, a pressure increase will occur and the container may burst.
EXTINGUISHING MEDIA:	Use an extinguishing agent suitable for the surrounding fire.
PROTECTIVE EQUIPMENT:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with full face-piece operated in positive pressure mode.
ADDITIONAL INFORMATION:	Thermal decomposition products-carbon monoxide, sulfur oxides, metal oxide/oxides, halogenated compounds.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:	No action should be taken involving individual risk or without suitable training. Isolate area. Avoid contact with material. Do not breathe vapors. Provide adequate ventilation. Wear proper personal protective equipment.
ENVIRONMENTAL:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform relevant authorities if the product reaches sewers, waterways or soil.
CONTAINMENT/CLEANUP:	Stop leak if without risk. Move containers from spill area. Contain or absorb with inert dry material. Dispose of according to local regulations. See Section 1 for emergency contact information and 13 for waste disposal.

SECTION 7 - HANDLING AND STORAGE

SAFE HANDLING:	Wear appropriate personal protective equipment (see Section 8). Eating drinking and smoking should be prohibited. Do not get into eyes or on skin. Do not ingest. Keep containers tightly closed. Do not reuse container.
SAFE STORAGE:	Store in accordance with local regulations. Store in original container away from foods, drink and incompatible materials. Keep container tightly closed. Do not store unlabeled. Use appropriate containment.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:	Apply technical measures to comply with occupational exposure limits. Mechanical ventilation, eyewash stations, showers where necessary.
EYE PROTECTION:	Safety eye-wear/face shield complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.
RESPIRATORY PROTECTION:	Use a properly fitted air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates necessity. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product & the safe working limits of the chosen respirator.
HAND PROTECTION:	Chemical resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
SKIN PROTECTION:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

COMPONENT	ACGIH TWA ppm	OSHA/NIOSH STEL ppm	OSHA/ACGIH STEL mg/m ³
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2-Butoxyethanol	20.00	None	None
Sodium Laureth Sulfate	None	None	15.00
Alkylbenzenesulfonic Acid	None	None	0.20
Sodium Hydroxide 50%	2.00	None	None
Nonylphenol ethoxylate	10.00	None	None
Sodium Hexametaphosphate	None	None	None
Solvent	30.00	None	None
Fragrance	None	None	None
Tetrasodium EDTA	None	None	15.00
Alkyl dimethyl ammonium chloride	1000.00	None	None
#328 Sunflower Yellow Dye	None	None	None

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Viscous liquid	UPPER EXPLOSIVE LIMITS:	NA
COLOR:	Orange	LOWER EXPLOSIVE LIMITS:	NA
ODOR:	Orange	VAPOR PRESSURE:	NA
ODOR THRESHOLD:	NA	VAPOR DENSITY:	NA
PH:	11.5 - 14.0	RELATIVE DENSITY:	NA
MELTING POINT:	NA	SOLUBILITY:	Completely Water Soluble
FREEZING POINT:	32.00 F	PARTITION COEFFICIENT:	NA
BOILING POINT:	NA	AUTO-IGNITION TEMPERATURE:	NA
FLASH PT METHOD:	NA	DECOMPOSITION TEMPERATURE:	NA
FLASH POINT:	NA	SPECIFIC GRAVITY:	1.01500
EVAPORATION RATE:	NA	% VOLATILE:	NA
FLAMMABILITY:	Nonflammable	VISCOSITY (cst):	NA

SECTION 10 - STABILITY AND REACTIVITY

REACTIVITY:	HAZARDOUS DECOMPOSITION PRODUCTS
CHEMICAL STABILITY:	Stable under normal conditions.
POSSIBILITY OF HAZARDOUS REACTIONS:	Non-reactive.
CONDITIONS TO AVOID:	Excessive heat or open flame.
INCOMPATIBLE MATERIALS:	Avoid contact with acidic materials and strong oxidizers.

HAZARDOUS

Under normal conditions, none are known.

DECOMPOSITION PRODUCTS:

SECTION 11 - TOXICOLOGICAL INFORMATION

ROUTES OF ENTRY:

Inhalation

Absorption

Ingestion

ACUTE EXPOSURE HAZARDS:

EYE CONTACT:

Irritation, stinging, redness, burns.

DERMAL:

Irritation, burns upon prolonged exposure.

ORAL:

Nausea, vomiting.

INHALATION:

No expected route of entry. Irritation.

2-Butoxyethanol (CAS No. 111-76-2)

Oral LD50: Rat 470 mg/kg

Sodium Laureth Sulfate (CAS No. 9004-82-4)

Oral LD50: Rat 4100 mg/kg

Alkylbenzenesulfonic Acid (CAS No. 68584-22-5)

Oral LD50: greater than 5mg/kg

Nonylphenol ethoxylate (CAS No. 127087-87-0)

Oral LD50: Rat 1600 mg/kg

Sodium Hexametaphosphate (CAS No. 68915-31-1)

Oral LD50: Rat 3053 mg/kg

Solvent (CAS No. 94266-47-4)

Oral LD50: 4,400 mg/kg rat

Tetrasodium EDTA (CAS No. 64-02-8)

Oral LD50: 630-1,260mg/kg, rat

Alkyl dimethyl ammonium chloride (CAS No. 68424-85-1)

Oral LD50: Rat >50-500 mg/kg

SECTION 12 - ECOLOGICAL INFORMATION

ECOTOXICITY:

No data available.

PERSISTENCE & DEGRADABILITY:

No data available.

BIOACCUMULATIVE POTENTIAL:

No data available.

MOBILITY IN SOIL:

No data available.

OTHER ADVERSE EFFECTS:

No data available.

2-Butoxyethanol (CAS No. 111-76-2)

Fish LC50: 1250mg/L, 96h, Inland Solverside

Crustacean LC50: Daphnia 1818 mg/L 24h

Sodium Laureth Sulfate (CAS No. 9004-82-4)

Crustacean LC50: Daphnia >1.0 mg/L 96h

Alkylbenzenesulfonic Acid (CAS No. 68584-22-5)

Fish LC50: greater than 1000mg/L

Crustacean LC50: greater than 1000mg/L daphnia

Sodium Hydroxide 50% (CAS No. 1310-73-2)

Fish LC50: 144mg/L, 96H guppy

Sodium Hexametaphosphate (CAS No. 68915-31-1)

Crustacean LC50: Daphnia 485 mg/L 48h

Solvent (CAS No. 94266-47-4)

Fish LC50: 0.702 mg/L 96h minnow

Tetrasodium EDTA (CAS No. 64-02-8)

Fish LC50: 410mg/kg, 96h, bluegill

SECTION 13 - DISPOSAL CONSIDERATION

Material that cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Processing, use or contamination of the product may change the waste management options. Waste generators must decide if discarded material is a hazardous waste. State and local disposal regulations may differ from federal disposal definitions. Dispose of container and unused contents in accordance with federal, state and local requirements.

SECTION 14 - TRANSPORT INFORMATION

DOT (US)

UN NUMBER: NA

SHIPPING NAME: NA

TECHNICAL NAME: NA

HAZARD CLASS: NA

PACKAGING GROUP: NA

SECTION 15 - REGULATORY INFORMATION

SARA 313 COMPONENTS	CAS NO.	% LESS THAN
2-Butoxyethanol	111-76-2	5 - 10%
CALIFORNIA PROP. 65 COMPONENTS	CAS NO.	% LESS THAN
2-Butoxyethanol	111-76-2	5 - 10%
Nonylphenol ethoxylate	127087-87-0	1 - 5%
Tetrasodium EDTA	64-02-8	< 1.0%

Alkyl dimethyl ammonium chloride

68424-85-1

< 1.0%

This product can expose you to Ethylene Glycol, which is known to the State of California to cause birth defects or other reproductive harm..

RQ 1,000#

127087-87-0 Nonylphenol polyethylene glycol ether 90 - 100 %

25322-68-3 Polyethylene glycol 1 - 5 %

123-91-1 1,4-Dioxane 0 - 0.1 %

64-19-7 Acetic acid 0 - 0.1 %

75-21-8 Ethylene oxide 0 - 0.1 %

RTK: MA, PA, NJ,

WARNING! This product contains a chemical known to the State of California to cause cancer birth defects or other reproductive harm.

123-91-1 1,4-Dioxane 0 - 0.1 %

64-19-7 Acetic acid 0 - 0.1 %

75-21-8 Ethylene oxide 0 - 0.1 %

RTK: PA, NJ

contains Nitro Acetic Acid <0.3% max and arsenic (max 1ppm) as contaminants or bi-products

which are known to the State of

California to cause cancer or reproductive toxicity as listed under Prop. 65 State Drinking Water and

Toxic Enforcement Act.

SECTION 16 - OTHER INFORMATION

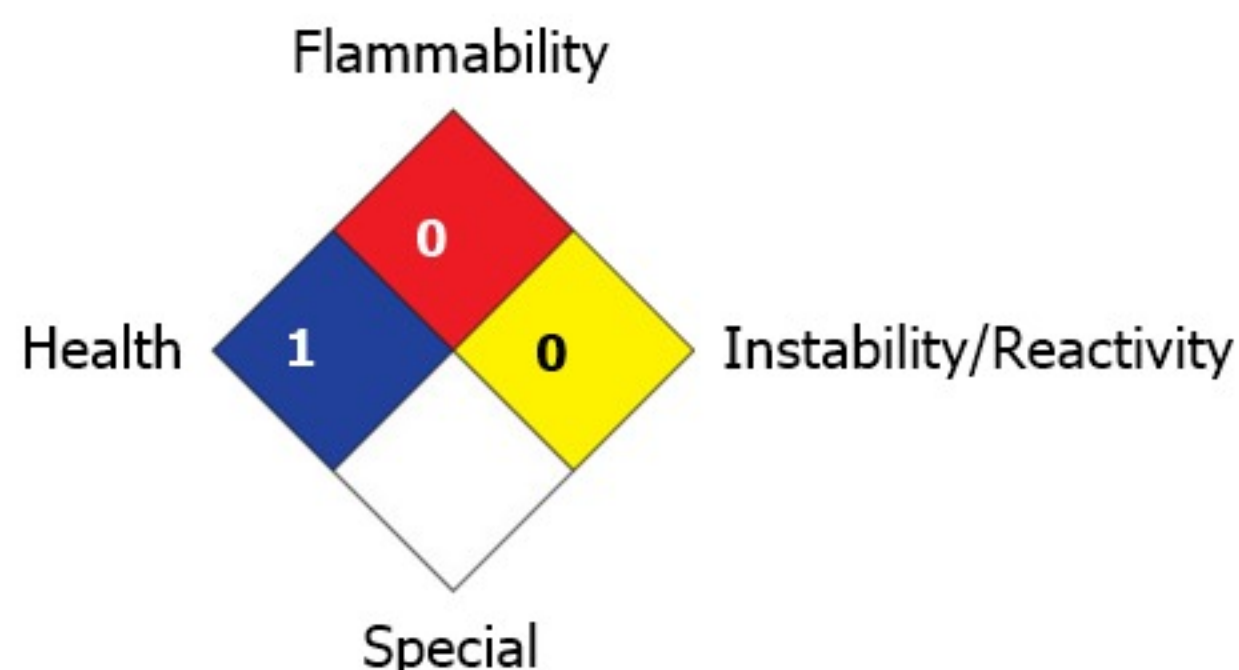
HAZARDOUS MATERIAL INFORMATION SYSTEM (U.S.A.)

Health Hazard	1
Fire Hazard	0
Reactivity	0
Personal Protection	B

Caution: HMIS ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks and 4 representing significant hazards or risks.

- A Safety Glasses
- B Safety Glasses, Gloves
- C Safety Glasses, Gloves, Apron
- D Face Shield, Gloves, Apron
- E Safety Glasses, Gloves, Dust Respirator
- F Safety Glasses, Gloves, Apron, Dust Respirator
- G Safety Glasses, Gloves, Vapor Respirator
- H Splash Goggles, Gloves, Apron, Dust & Vapor Respirator
- I Safety Glasses, Gloves, Dust & Vapor Respirator
- J Splash Goggles, Gloves, Apron, Dust & Vapor Respirator
- K Airline Hood or Mask, Gloves, Full Suit, Boots
- X Consult your supervisor for special handling directions

NATIONAL FIRE PROTECTION ASSOCIATION (U.S.A.)



NFPA warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health,

and reactivity hazards of chemicals.

Information on this form is furnished solely for the purpose of compliance with the Occupational Safety and Health Act of 1970 and shall not be used for any other purpose. Use or dissemination of all or any part of this information can be grounds for legal action.

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