

PRODUCT

NALCO® 7346 TAB

EMERGENCY TELEPHONE NUMBER(S)

(800) 424-9300 (24 Hours) CHEMTREC

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:

NALCO® 7346 TAB

APPLICATION:

BIOCIDE

COMPANY IDENTIFICATION:

Naico Company 1601 W. Diehl Road Naperville, Illinois 60563-1198

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1/1

NFPA 704M/HMIS RATING

HEALTH: 3/3*

FLAMMABILITY: 1/1

INSTABILITY:

OX

0 = Insignificant 1 = Slight 2 = Moderate 3 = High 4 = Extreme * = Chronic Health Hazard

OTHER:

2. COMPOSITION/INFORMATION ON INGREDIENTS

Our hazard evaluation has identified the following chemical substance(s) as hazardous. Consult Section 15 for the nature of the hazard(s).

Hazardous Substance(s)	CAS NO	% (w/w)
1,3-Dichloro-5,5-Dimethylhydantoin	118-52-5	10.0 [^] - 30.0
1-Bromo-3-Chloro-5,5-Dimethyl-Hydantoin	16079-88-2	30.0 - 60.0
1,3-Dichloro-5-Ethyl-5-Methylhydantoin	89415-87-2	10.0 - 30.0
3-Bromo-1-Chloro-5.5-Dimethyl-Hydantoin	126-06-7	30.0 - 60.0

HAZARDS IDENTIFICATION 3.

EMERGENCY OVERVIEW

DANGER

HARMFUL IF SWALLOWED. HIGHLY CORROSIVE. Causes eye and skin damage. Irritating to nose and throat, May cause sensitization by skin contact.

Avoid generating dusts. Avoid breathing dust. Use with adequate ventilation. Do not get in eyes, on skin or on clothing. Wear rubber gloves and chemical goggles and face shield when handling. Wash thoroughly after handling. Immediately remove contaminated clothing and wash before reuse.

Oxidizer; material is an oxidizer which may readily react with other materials, especially upon heating. May evolve oxides of carbon (COx) under fire conditions. May evolve oxides of nitrogen (NOx) under fire conditions. May evolve hydrogen bromide and bromine under fire conditions. May evolve chlorine under fire conditions. May evolve HCI under fire conditions. May form explosive dust-air mixtures. Handling operations may generate combustible dust in the finely divided and suspended state. To reduce the potential for dust explosions and/or fire, do not permit dust to accumulate. Empty product containers may contain product residue. Do not pressurize, cut, heat, weld, or expose containers to flame or other sources of ignition.



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PRIMARY ROUTES OF EXPOSURE:

Eye, Skin, Inhalation

HUMAN HEALTH HAZARDS - ACUTE:

EYE CONTACT:

Corrosive. Will cause eye burns and permanent tissue damage.

SKIN CONTACT:

Corrosive; causes permanent skin damage. May cause sensitization by skin contact.

INGESTION:

Corrosive; causes chemical burns to the mouth, throat and stomach. May be harmful or fatal if swallowed.

INHALATION:

Irritating, in high concentrations, to the eyes, nose, throat and lungs.

AGGRAVATION OF EXISTING CONDITIONS:

A review of available data does not identify any worsening of existing conditions.

HUMAN HEALTH HAZARDS - CHRONIC:

No adverse effects expected other than those mentioned above.

4. FIRST AID MEASURES

Call a Poison Control Center or doctor for treatment advice. Have the product container or label with you when calling a Poison Control Center or doctor or going for treatment.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after the first 5 minutes, them continue rinsing eye.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 - 20 minutes.

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water, if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person., IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible., NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

NOTE TO PHYSICIAN:

Probable mucosal damage may contraindicate the use of gastric lavage. Based on the individual reactions of the patient, the physician's judgement should be used to control symptoms and clinical condition.

5. | FIRE FIGHTING MEASURES

FLASH POINT:

287 °F / 142 °C (COC)



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EXTINGUISHING MEDIA:

Dry powder, Foam, Carbon dioxide, Other extinguishing agent suitable for Class B fires, For large fires, use water spray or fog, thoroughly drenching the burning material.

FIRE AND EXPLOSION HAZARD:

Oxidizer; material is an oxidizer which may readily react with other materials, especially upon heating. May evolve oxides of carbon (COx) under fire conditions. May evolve oxides of nitrogen (NOx) under fire conditions. May evolve hydrogen bromide and bromine under fire conditions. May evolve chlorine under fire conditions. May evolve HCI under fire conditions. May form explosive dust-air mixtures. Handling operations may generate combustible dust in the finely divided and suspended state. To reduce the potential for dust explosions and/or fire, do not permit dust to accumulate. Empty product containers may contain product residue. Do not pressurize, cut, heat, weld, or expose containers to flame or other sources of ignition.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTING:

In case of fire, wear a full face positive-pressure self contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

Restrict access to area as appropriate until clean-up operations are complete. Use personal protective equipment recommended in Section 8 (Exposure Controls/Personal Protection). Stop or reduce any leaks if it is safe to do so. Keep people away from and upwind of spill/leak. Ventilate spill area if possible. Remove sources of ignition. Ensure clean-up is conducted by trained personnel only. Do not touch spilled material. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Notify appropriate government, occupational health and safety and environmental authorities.

METHODS FOR CLEANING UP:

Sweep up and shovel. Dispose of material in compliance with regulations indicated in Section 13 (Disposal Considerations).

ENVIRONMENTAL PRECAUTIONS:

Very toxic to aquatic organisms., Prevent material from entering sewers or waterways., If drains, streams, soil or sewers become contaminated, notify local authority.

7. HANDLING AND STORAGE

HANDLING:

Do not get in eyes, on skin, on clothing. Do not take internally. Use with adequate ventilation. Keep the containers closed when not in use. Avoid generating dusts. Classified as an ST-1 dust explosive hazard (ASTM E-1226-88). Airborne dusts of this product in an enclosed space and in the presence of an ignition source may constitute an explosion hazard. Maintain good housekeeping practices. Empty product containers may contain product residue. Do not pressurize, cut, heat, weld, or expose containers to flame or other sources of ignition. Do not use, store, spill or pour near heat, sparks or open flame.

STORAGE CONDITIONS:

Store the containers tightly closed. Store in suitable labeled containers. Keep in dry place. Store away from heat and sources of ignition. Connections must be grounded to avoid electrical charges.



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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS:

Exposure guidelines have not been established for this product. Available exposure limits for the substance(s) are shown below.

Substance(s)	Category:	ppm	mg/m3	Non-Standard Unit
1,3-Dichloro-5,5-Dimethylhydantoin	ACGIH/TWA ACGIH/STEL OSHA Z1/PEL		0.2 0.4 0.2	
1,3-Dichloro-5-Ethyl-5-Methylhydantoin	Manufacturer's Recommendation/TWA		0.2	
1-Bromo-3-Chloro-5,5-Dimethyl-Hydantoin	Manufacturer's Recommendation/TWA		0.2	

ENGINEERING MEASURES:

General ventilation is recommended. Local exhaust ventilation may be necessary when dusts or mists are generated.

RESPIRATORY PROTECTION:

An approved respirator must be worn if the occupational exposure limit is likely to be exceeded. If dusts are generated, use an approved air-purifying respirator. Organic vapor / Acid gas cartridge. with a Particulate pre-filter. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

HAND PROTECTION:

When handling this product, the use of chemical gauntlets is recommended. The choice of work glove depends on work conditions and what chemicals are handled. Please contact the PPE manufacturer for advice on what type of glove material may be suitable. Gloves should be replaced immediately if signs of degradation are observed.

SKIN PROTECTION:

Wear chemical resistant apron, chemical splash goggles, impervious gloves and boots. A full slicker suit is recommended if gross exposure is possible.

EYE PROTECTION:

Wear a face shield with chemical splash goggles.

HYGIENE RECOMMENDATIONS:

Use good work and personal hygiene practices to avoid exposure. Eye wash station and safety shower are necessary. If clothing is contaminated, remove clothing and thoroughly wash the affected area. Launder contaminated clothing before reuse. Always wash thoroughly after handling chemicals. When handling this product never eat, drink or smoke.

HUMAN EXPOSURE CHARACTERIZATION:

Based on our recommended product application and personal protective equipment, the potential human exposure is: Moderate



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9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE

Briquettes

APPEARANCE

White

ODOR

Pungent

SOLUBILITY IN WATER

Partial

pH (1%)

3.6

MELTING POINT

0.0

EVAPORATION RATE

248 - 298 °F / 120 - 148 °C

< 1

VOC CONTENT

61.87 % EPA Method 24

Note: These physical properties are typical values for this product and are subject to change.

10. STABILITY AND REACTIVITY

STABILITY:

Stable under normal conditions.

HAZARDOUS POLYMERIZATION:

Hazardous polymerization will not occur.

CONDITIONS TO AVOID:

Moisture Heat and sources of ignition including static discharges. Avoid generating dusts.

Avoid temperatures greater than

165 °C

MATERIALS TO AVOID:

Strong acids Strong Bases Contact with organic materials (e.g. rags, sawdust, hydrocarbon oils or solvents) and avoid reducing agents (e.g. hydrazine, sulfites, sulfide, aluminum or magnesium dust) which can generate heat, fires, explosions and the release of toxic fumes. Organic materials and reducing agents Oxidizing agents Combustible materials

HAZARDOUS DECOMPOSITION PRODUCTS:

Under fire conditions:

Oxides of carbon, Oxides of nitrogen, HCI, Hydrogen bromide, Chlorine gas,

Bromine

11. TOXICOLOGICAL INFORMATION

The following results are for the product along with results on the active substances.

ACUTE ORAL TOXICITY:

Species:

Rat

LD50:

468 - 477 mg/kg

Test Descriptor:

Product



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ACUTE DERMAL TOXICITY:

Species:

Rabbit

LD50:

> 2,000 mg/kg

Test Descriptor:

Active Substance

SENSITIZATION:

Repeated or prolonged contact may cause sensitization in some individuals.

CARCINOGENICITY:

None of the substances in this product are listed as carcinogens by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP) or the American Conference of Governmental Industrial Hygienists (ACGIH).

HUMAN HAZARD CHARACTERIZATION:

Based on our hazard characterization, the potential human hazard is: High

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL EFFECTS:

The following results are for the product along with results on the active substances.

ACUTE FISH RESULTS:

Species	Exposure	LC50	Test Descriptor
Rainbow Trout	96 hrs	0.5 mg/l	Product
Bluegill Sunfish	96 hrs	1.2 mg/l	Product
Sheepshead Minnow	96 hrs	1.4 mg/l	value expressed as Br2
Fathead Minnow	96 hrs	0.71 mg/l	Product

ACUTE INVERTEBRATE RESULTS:

Species	Exposure	LC50	EC50	Test Descriptor
Daphnia magna	48 hrs	0.4 mg/l		Product
Mysid Shrimp (Mysidopsis bahia)	96 hrs	0.93 mg/l		Product
American Oyster	96 hrs	0.84 mg/l		value expressed as Br2

AQUATIC PLANT RESULTS:

Species	Exposure	EC50/LC50	Test Descriptor
Green Algae (Pseudokirchneriella	72 hrs	0.12 mg/l	Active Substance (1,3-Dichloro-5-Ethyl-5-Methylhydantoin)
subcapitata, previously Selenastrum capricornutum)		e e	

AVIAN RESULTS:

Species	Exposure	LC50	Test Descriptor
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Mallard Duck	-	> 5,620 mg/kg	Similar active ingredients
Bobwhite Quail		> 5,620 mg/kg	Similar active ingredients

MOBILITY:

The environmental fate was estimated using a level III fugacity model embedded in the EPI (estimation program interface) Suite TM, provided by the US EPA. The model assumes a steady state condition between the total input and output. The level III model does not require equilibrium between the defined media. The information provided is intended to give the user a general estimate of the environmental fate of this product under the defined conditions of the models.

If released into the environment this material is expected to distribute to the air, water and soil/sediment in the approximate respective percentages;

Air	Water	Soil/Sediment
<5%	30 - 50%	10 - 30%

The portion in water is expected to be soluble or dispersible.

BIOACCUMULATION POTENTIAL

This preparation or material is not expected to bioaccumulate.

ENVIRONMENTAL HAZARD AND EXPOSURE CHARACTERIZATION

Based on our hazard characterization, the potential environmental hazard is: High

Based on our recommended product application and the product's characteristics, the potential environmental exposure is: Moderate

If released into the environment, see CERCLA/SUPERFUND in Section 15.

13. DISPOSAL CONSIDERATIONS

If this product becomes a waste, it could meet the criteria of a hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Before disposal, it should be determined if the waste meets the criteria of a hazardous waste.

As a pesticide waste, consult the FIFRA label for any additional handling, treatment, or disposal requirements. For disposal, contact a properly licensed waste treatment, storage, disposal or recycling facility.

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or other procedures approved by state and local authorities. If burned, stay out of smoke.

14. TRANSPORT INFORMATION

The information in this section is for reference only and should not take the place of a shipping paper (bill of lading) specific to an order. Please note that the proper Shipping Name / Hazard Class may vary by packaging, properties, and mode of transportation. Typical Proper Shipping Names for this product are as follows.

LAND TRANSPORT:

Proper Shipping Name:

OXIDIZING SOLID, CORROSIVE, N.O.S.



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Technical Name(s):

BROMOCHLORO-5,5-DIMETHYLHYDANTOIN. 1,3-DICHLORO-5,5-DIMETHYLHYDANTOIN

UN/ID No:

UN 3085

Hazard Class - Primary: Hazard Class - Secondary: 5.1 8

Packing Group:

II

Flash Point:

142 °C / 287 °F

AIR TRANSPORT (ICAO/IATA):

Proper Shipping Name:

OXIDIZING SOLID, CORROSIVE, N.O.S.

Technical Name(s):

BROMOCHLORO-5,5-DIMETHYLHYDANTOIN, 1.3-DICHLORO-5,5-DIMETHYLHYDANTOIN

UN 3085

UN/ID No: Hazard Class - Primary:

5.1

Hazard Class - Secondary:

8

Packing Group:

Ш

MARINE TRANSPORT (IMDG/IMO):

Proper Shipping Name: Technical Name(s):

OXIDIZING SOLID, CORROSIVE, N.O.S. BROMOCHLORO-5,5-DIMETHYLHYDANTOIN,

1.3-DICHLORO-5,5-DIMETHYLHYDANTOIN

UN/ID No:

UN 3085

Hazard Class - Primary: Hazard Class - Secondary: 5.1 8

Packing Group:

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*Marine Pollutant:

BROMOCHLORO-5,5-DIMETHYLHYDANTOIN

*Note: This product is regulated as a Marine Pollutant when shipped by Rail, Highway, or Air in bulk quantities (greater than 119 gallons) and when shipped by water in all quantities.

REGULATORY INFORMATION 15.

This section contains additional information that may have relevance to regulatory compliance. The information in this section is for reference only. It is not exhaustive, and should not be relied upon to take the place of an individualized compliance or hazard assessment. Nalco accepts no liability for the use of this information.

NATIONAL REGULATIONS, USA:

OSHA HAZARD COMMUNICATION RULE, 29 CFR 1910.1200:

Based on our hazard evaluation, the following substance(s) in this product is/are hazardous and the reason(s) is/are shown below.

1,3-Dichloro-5,5-Dimethylhydantoin: Corrosive, Dermal Sensitizer

1-Bromo-3-Chloro-5,5-Dimethyl-Hydantoin: Corrosive, Oxidizer, Dermal Sensitizer

1,3-Dichloro-5-Ethyl-5-Methylhydantoin: Corrosive, Dermal Sensitizer, Eye irritant, Oxidizer

3-Bromo-1-Chloro-5,5-Dimethyl-Hydantoin: Corrosive



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CERCLA/SUPERFUND, 40 CFR 302:

Notification of spills of this product is not required.

SARA/SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (TITLE III) - SECTIONS 302, 311, 312, AND 313:

SECTION 302 - EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355):

This product does not contain substances listed in Appendix A and B as an Extremely Hazardous Substance.

SECTIONS 311 AND 312 - MATERIAL SAFETY DATA SHEET REQUIREMENTS (40 CFR 370):

Our hazard evaluation has found this product to be hazardous. The product should be reported under the following indicated EPA hazard categories:

- X Immediate (Acute) Health Hazard
 Delayed (Chronic) Health Hazard
- X Fire Hazard
- Sudden Release of Pressure Hazard
- Reactive Hazard

Under SARA 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are: 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

SECTION 313 - LIST OF TOXIC CHEMICALS (40 CFR 372):

This product does not contain substances on the List of Toxic Chemicals.

TOXIC SUBSTANCES CONTROL ACT (TSCA):

This product is exempted under TSCA and regulated under FIFRA. The inerts are on the Inventory List.

FOOD AND DRUG ADMINISTRATION (FDA) Federal Food, Drug and Cosmetic Act:

When use situations necessitate compliance with FDA regulations, this product is acceptable under: 21 CFR 176.300 Slimicides

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Follow Directions for Use on label.

NSF NON-FOOD COMPOUNDS REGISTRATION PROGRAM (former USDA List of Proprietary Substances & Non-Food Compounds):

NSF Registration number for this product is: 141570

This product is acceptable for treating boilers, steam lines, and/or cooling systems (G7) where neither the treated water nor the steam produced may contact edible products in and around food processing areas.

FEDERAL INSECTICIDE, FUNGICIDE AND RODENTICIDE ACT (FIFRA): EPA Reg. No. 6836-115-1706

In all cases follow instructions on the product label.



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This product has been certified as KOSHER/PAREVE for year-round use INCLUDING THE PASSOVER SEASON by the CHICAGO RABBINICAL COUNCIL.

FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT, 40 CFR 401.15 / formerly Sec. 307, 40 CFR 116.4 / formerly Sec. 311 :

Substances listed under this regulation are not intentionally added or expected to be present in this product. Listed components may be present at trace levels.

CLEAN AIR ACT, Sec. 112 (Hazardous Air Pollutants, as amended by 40 CFR 63), Sec. 602 (40 CFR 82, Class I and II Ozone Depleting Substances):

Substances listed under this regulation are not intentionally added or expected to be present in this product. Listed components may be present at trace levels.

CALIFORNIA PROPOSITION 65:

Substances known to the State of California to cause cancer and/or reproductive toxicity are present as an impurity or residue.

Substance(s)	Concentration	EFFECTS
Bromoform	< .002 %	Causes Cancer

MICHIGAN CRITICAL MATERIALS:

Substances listed under this regulation are not intentionally added or expected to be present in this product. Listed components may be present at trace levels.

STATE RIGHT TO KNOW LAWS:

This product is a registered biocide and is exempt from State Right to Know Labelling Laws.

1.3-Dichloro-5.5-Dimethylhydantoin

118-52-5

INTERNATIONAL CHEMICAL CONTROL LAWS:

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA):

Substances regulated under the Pest Control Products Act are exempt from CEPA New Substance Notification requirements.

AUSTRALIA

All substances in this product comply with the National Industrial Chemicals Notification & Assessment Scheme (NICNAS).

CHINA

All substances in this product comply with the Provisions on the Environmental Administration of New Chemical Substances and are listed on the Inventory of Existing Chemical Substances China (IECSC).

EUROPE

The substances in this preparation have been reviewed for compliance with the EINECS or ELINCS inventories.



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JAPAN

All substances in this product comply with the Law Regulating the Manufacture and Importation Of Chemical Substances and are listed on the Existing and New Chemical Substances list (ENCS).

KOREA

All substances in this product comply with the Toxic Chemical Control Law (TCCL) and are listed on the Existing Chemicals List (ECL)

NEW ZEALAND

All substances in this product comply with the Hazardous Substances and New Organisms (HSNO) Act 1996, and are listed on or are exempt from the New Zealand Inventory of Chemicals.

PHILIPPINES

All substances in this product comply with the Republic Act 6969 (RA 6969) and are listed on the Philippines Inventory of Chemicals & Chemical Substances (PICCS).

16. OTHER INFORMATION

Due to our commitment to Product Stewardship, we have evaluated the human and environmental hazards and exposures of this product. Based on our recommended use of this product, we have characterized the product's general risk. This information should provide assistance for your own risk management practices. We have evaluated our product's risk as follows:

- * The human risk is: Moderate
- * The environmental risk is: Moderate

Any use inconsistent with our recommendations may affect the risk characterization. Our sales representative will assist you to determine if your product application is consistent with our recommendations. Together we can implement an appropriate risk management process.

This product material safety data sheet provides health and safety information. The product is to be used in applications consistent with our product literature. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. For any other uses, exposures should be evaluated so that appropriate handling practices and training programs can be established to insure safe workplace operations. Please consult your local sales representative for any further information.

REFERENCES

Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices, American Conference of Governmental Industrial Hygienists, OH., (Ariel Insight™ CD-ROM Version), Ariel Research Corp., Bethesda, MD.

Hazardous Substances Data Bank, National Library of Medicine, Bethesda, Maryland (TOMES CPS™ CD-ROM Version), Micromedex, Inc., Englewood, CO.

IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man, Geneva: World Health Organization, International Agency for Research on Cancer.



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Integrated Risk Information System, U.S. Environmental Protection Agency, Washington, D.C. (TOMES CPS™ CD-ROM Version),
Micromedex, Inc., Englewood, CO.

Annual Report on Carcinogens, National Toxicology Program, U.S. Department of Health and Human Services, Public Health Service.

Title 29 Code of Federal Regulations, Part 1910, Subpart Z, Toxic and Hazardous Substances, Occupational Safety and Health Administration (OSHA), (Ariel Insight™ CD-ROM Version), Ariel Research Corp., Bethesda, MD.

Registry of Toxic Effects of Chemical Substances, National Institute for Occupational Safety and Health, Cincinnati, OH, (TOMES CPS™ CD-ROM Version), Micromedex, Inc., Englewood, CO.

Ariel Insight™ (An integrated guide to industrial chemicals covered under major regulatory and advisory programs), North American Module, Western European Module, Chemical Inventories Module and the Generics Module (Ariel Insight™ CD-ROM Version), Ariel Research Corp., Bethesda, MD.

The Teratogen Information System, University of Washington, Seattle, WA (TOMES CPS™ CD-ROM Version), Micromedex, Inc., Englewood, CO.

Prepared By: Product Safety Department

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