



# City of Hastings

# Employee Right-to-Know Manual

## PURPOSE

This program manual is designed to implement the provisions of the Minnesota Employee Right to Know Act of 1983. This manual presents the major aspects of the standards. These standards require employers to evaluate their workplaces for the existence of hazardous substances, harmful physical agents, and infectious agents and to provide training and information to those employees covered under this act who are routinely exposed to those substances and agents.

## SCOPE OF THE EMPLOYEE RIGHT TO KNOW PROGRAM

This Employee Right to Know Program has been developed under applicable state and federal regulations. It has been approved as the City's right-to-know program by the appropriate administrative or governing authority identified below. The use of the word City shall be construed to mean the municipal and such other departments of city government for which this program has been adopted.

This Employee Right to Know Program will be reviewed for relevant updates by the Safety Committee every two years.

See Appendix A for Approval and Revision History

## Administrative Responsibilities

The following person is responsible for administering the Employee Right to Know Program in the City. This person has the primary responsibility to oversee the ERTK program and ensure that it is organized, implemented, and updated as required by the Employee Right to Know Standard.

Program Administrator for City Departments Covered in this program.
Megan Schlei – Human Resources Generalist

To ensure an effective Employee Right to Know Program, the following supervisors are responsible for carrying out the details of this program in their work areas.

Supervisor	Department
Bryan Schowalter	Police Department
Chris Paulson	Fire Department
Cory Likes	Parks & Recreation Department
Charlies Judge	Facilities Management
Joe Spagnoletti	Public Works Superintendent

## Hazard Determination

The City inventories a list of hazardous substances, harmful physical agents, and infectious agents listed in subparts 5206.0400, 5206.0500, and 5206.0700 of the Employee Right to Know rules. The City will exercise reasonable diligence in evaluating the workplace for the presence of recognized hazardous substances, harmful physical agents, and infectious agents and ensure that employees are provided with the rights stated in the standard. The City understands that the hazardous substances list includes the majority of hazardous substances that will be encountered in Minnesota (or other states) and that it does not include all hazardous substances and may not always be current. Therefore, the evaluations conducted by the specific manufacturer of the substances used in the City will be accepted and employees provided with the rights stated in the standard.

## HAZARDOUS SUBSTANCES

The City has developed a list of all hazardous substances and the operations where they are used. The intent is to inform employees about the hazardous substances they may encounter in the workplace.

Work area supervisors or delegated employees will update the list whenever a new hazardous substance is introduced into that work area. Supervisors will report the name of the new hazardous substance and the operation where it will be used to the chemical management system so that it can be added to the list before employees in the work area use it.

Velocity Chemical Management
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The list of hazardous substances used in the City is available for review at the following location(s).

Location
City Intranet Page
Chem Management System
Chem Management App

## Hazardous Substance Container Labeling

The Safety Committee and its members are responsible for coordinating labeling activities among supervisors and employees to make sure they are uniform and follow the rules of the City.

The City understands that the manufacturer of a hazardous substance or mixture of hazardous substances, or of equipment that generates a harmful physical agent is obligated to provide the information necessary for the City to comply with Employee Right to Know requirements. Supervisors at the City will evaluate containers arriving in their work area to ensure that the label, tag, or markings meet the following requirements:

- 1) Identifies the hazardous substance.
- 2) Appropriate hazard warning(s).
- 3) Name and address of the chemical manufacturer, importer, or other responsible parties.

Should a product be received that does not meet the above-stated labeling requirements, the supervisors will immediately label, tag, or mark any hazardous substance container at the City so that it:

- 1) Identifies the hazardous substance and the identity corresponds with the name used on the SDS/MSDS and inventory list.
- 2) Indicates the appropriate hazard warning
- 3) Does not conflict with labels from the Department of Transportation.

Supervisors will also ensure:

- 1) The label, tag, or marking is legible, in English, and is prominently displayed.
- 2) The incoming containers of hazardous substances include the manufacturer's name and address.
- 3) Chemical labels for OSHA-specific standards comply with those regulations.
- 4) The labels on incoming containers of hazardous substances are not removed or defaced unless the container is immediately marked, tagged, or labeled with the required information.
- 5) Stationary processes that contain hazardous substances have the appropriate label or alternative warning attached that conveys the required information.
- 6) Contracted employers working at the facility are notified of the labeling procedure and understand the label (warning) system.
- 7) The City recognizes labeling that complies with the following regulations and meets the requirements of the Employee Right to Know Program:
- 8) Pesticides labeled under the Federal Insecticide, Fungicide, and Rodenticide Act.
- 9) Any food, food additive, color additive, drug, or cosmetic including materials intended for use as ingredients in products labeled under the requirements of the Federal Food, Drug, and Cosmetic Act.
- 10) Distilled spirits (beverages alcohols), wines, or malt beverages labeled under the Federal Alcohol Administration Act.
- 11) Any consumer products as defined in the Consumer Product Safety Act and labeled under the requirements of that act.
- 12) Any hazardous substance as defined in the Federal Hazardous Substance Act and labeled under the requirements of that act.

## In-House Label Explanation and Description

Supervisors will ensure that all secondary containers in the workplace are labeled according to the following requirements:

- 1) Identifies the product and any hazardous substances.
- 2) Appropriate hazard warning(s).
- 3) The label, tag, or marking is legible, in English, and is prominently displayed.



## Material Safety Data Sheets

The City will obtain and collect the safety data sheets (SDS) for all hazardous substances purchased from manufacturers, importers, and distributors of said substances. A current hard copy or an electronic copy will be on file.

Where an in-house process generates hazardous substances, a “generic” SDS/MSDS of the hazardous substance will be obtained and placed in the City SDS/MSDS file. The intent is to provide a “safety data sheet” for all hazardous substances encountered by employees in the workplace.

The following committee/person is responsible for making sure the SDS/MSDS file at the City is maintained and updated as necessary:

Safety Committee & Human Resources Generalist
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Supervisors will notify this person before the time that a new hazardous substance is used in the workplace so that the appropriate SDS can be obtained.

The MSDS file (electronic) at the City is located at the following location(s):

Location
City Intranet
Chem Management Website
Chem Management App

These files are available to all employees at the SDS/MSDS file location or for more information contact your immediate supervisor.

## HARMFUL PHYSICAL AGENTS

The City recognizes the list of harmful physical agents listed/inventoried below. The City will exercise reasonable diligence in evaluating the workplace for the presence of recognized harmful physical agents at a level that may be expected to approximate or exceed the permissible exposure limit or the applicable action level. The City understands that the list/inventory of harmful physical agents includes the majority of harmful physical agents that will be encountered in Minnesota (or other states). The City will make a diligent effort to ensure that this list is updated as necessary. The City will ensure that exposed employees are afforded their rights as established in the Employee Right to Know rules.

### List of Harmful Physical Agents

- 1) Heat
- 2) Noise
- 3) Ionizing Radiation
- 4) Nonionizing Radiation

### Harmful Physical Agent Labeling

The City will ensure that equipment or work areas that specifically generate harmful physical agents at a level that may be expected to approximate or exceed the permissible exposure limit or applicable action will be labeled, marked, or tagged. Labeling will include:

- 1) The name of the physical agent.
- 2) The appropriate hazard warning.

## INFECTIOUS AGENTS

The City recognizes the list of infectious agents listed in Minnesota rule 5260.0600. The City will exercise reasonable diligence in evaluating the workplace for the presence of recognized and other infectious agents. The City understands that the list of infectious agents includes the majority of communicable infectious agents that will be encountered in Minnesota. The City will make a diligent effort to ensure that the most current list is provided in this program. The City will ensure employees who are routinely exposed are provided with the rights established in the Employee Right to Know rules.

## Bloodborne Pathogens

The City maintains a separate bloodborne pathogens program that complies with the OSHA 1910.1030 regulations. This program covers all reasonably anticipated infectious agent exposures in the City.

## EMPLOYEE TRAINING AND INFORMATION

The City provides each employee with information and training about the hazardous substances used in its operations and any exposure to harmful physical agents and/or infectious agents at a level that may be expected to approximate or exceed the permissible exposure limits. Additional employee training will be conducted whenever a new hazardous substance is introduced and/or the work situation changes that may increase the level of exposure to any harmful physical agent or infectious agent. New or transferred employees will receive the appropriate training and information specific to their work assignment, before beginning that assignment.

The following person is responsible for coordinating the employee information and training programs in the City.

Megan Schlei, Human Resources Generalist

(Safety Coordinator)

The City will inform the employees of:

- 1) The requirements of the Minnesota Employee Right to Know law.
- 2) The operations where hazardous substances are used including the hazardous substances that are contained in unlabeled pipes.
- 3) The operations where exposure to harmful physical agents and harmful infectious agents may be expected.
- 4) The location of the written Employee Right to Know Program, the list/inventory of hazardous substances, and the corresponding safety data sheets for those substances.
- 5) The labeling system employed in the City.

The City will train employees routinely exposed to hazardous substances:

- 1) The name or names of the substance including any generic or chemical name, trade name, and commonly used name.
- 2) The level, if any and if known, at which exposure to the substance has been restricted according to standards. If no standard has been adopted, according to guidelines established by competent professional groups, which have researched to determine the hazardous properties of potentially hazardous substances.
- 3) The primary routes of entry and the known acute and chronic effects of exposure at hazardous levels.
- 4) The known symptoms of the effects.
- 5) Any potential for flammability, explosion, or reactivity of the substance.
- 6) Appropriate emergency treatment.
- 7) The known proper conditions for use of and exposure to the substance.
- 8) An explanation of the use and limitations of methods of control that will prevent or reduce exposure to appropriate engineering controls and work practices, personal protective equipment, and housekeeping.
- 9) An explanation of the basis for the selection of personal protective equipment, including information on the types, proper use, location, removal, handling, decontamination, and disposal of personal protective equipment.
- 10) Procedures for cleanup of leaks and spills.
- 11) The name, phone number, and address of a manufacturer of the hazardous substance.
- 12) The location of a written copy/electronic (SDS/MSDS) of the above information

The City will train employees who may be routinely exposed to harmful physical agents. This training will include:

- 1) The name or names of the physical agent including any commonly used synonym.
- 2) The level, if any and if known, at which exposure to the physical agent has been restricted according to adopted standards, or, if no standard has been adopted, according to guidelines established by competent professional groups including but not limited to the American Conference of Governmental Industrial Hygienists, the Center for Disease Control, the Bureau of Radiological Health, and the American National Standards Institute.
- 3) The known acute and chronic effects of exposure at hazardous levels.
- 4) The known symptoms of exposure at hazardous levels.
- 5) The appropriate emergency treatment.
- 6) The known proper conditions for safe use of and exposure to the physical agent.
- 7) An explanation of the use and limitations of methods of control that will prevent or reduce exposure to appropriate engineering controls and work practices, personal protective equipment, and housekeeping.
- 8) An explanation of the basis for the selection of personal protective equipment, including information on the types, proper use, limitations, and location of personal protective equipment.
- 9) The name, phone number, and address, if appropriate, of the manufacturer of the equipment that generates the harmful physical agent.
- 10) A written copy of all of the above information which shall be readily accessible in the area or areas in which the harmful physical agent is present and where the employee may be exposed to the agent through use, handling, or otherwise.

The City will train employees who may be routinely exposed to infectious agents. This training will include:

1. A general explanation of the epidemiology and symptoms of infectious diseases including the hazards to special at-risk employee groups.
2. An explanation of the appropriate methods for recognizing tasks and other activities that may involve exposure to infectious agents including blood and other infectious materials.
3. An explanation of the chain of infection, or infectious disease process, including agents, reservoirs, modes of escape from reservoirs, modes of transmission, modes of entry into host, and host susceptibility.
4. An explanation of the employer's exposure control program.
5. An explanation of the use and limitations of methods of control that will prevent or reduce exposure including universal precautions, appropriate engineering controls and work practices, personal protective equipment, and housekeeping.
6. An explanation of the basis for the selection of personal protective equipment, including information on the types, proper use, location, removal, handling, decontamination, and disposal of personal protective equipment.
7. An explanation of the proper procedures for the cleanup of blood or body fluids.
8. An explanation of the recommended immunization practices, including, but not limited to, the HBV vaccine, and the efficacy, safety, and benefits of being vaccinated.
9. Procedures to follow if an exposure incident occurs, method of reporting the incident, and information on the post-exposure evaluation and medical follow-up that will be available.
10. Information on the appropriate actions to take and persons to contact in an emergency involving blood or other potentially infectious materials.
11. An explanation of the signs, labels, tags, or color coding used to denote biohazards.
12. The location of the regulatory text of this standard and explanation of its contents.
13. The location and contents of other pertinent information that explain the symptoms and effects of each infectious agent that the employee may be exposed to.

NOTE: The Bloodborne Pathogens Program addresses the aspects outlined in the above-stated information.

The City generally schedules employee right-to-know training. Other sessions will be arranged as needed.

Attendance records employee training and information sessions are located:

Location
LaserFiche
KnowBe4



The following supervisors are responsible for ensuring that employees for the respective department receive training whenever a new hazardous substance is introduced and/or the work situation changes that may increase the level of exposure to any harmful physical agent or infectious agent; and new or transferred employees receive the appropriate training and information specific to their work assignment, before beginning that assignment.

Supervisor	Department
Joe Spagnoletti	Public Works
Cory Like	Parks & Recreation
Megan Schlei	Administration
Bryan Schowalter	Police
Chris Paulson	Fire
Charlie Judge	Facilities

## SPECIAL CONSIDERATIONS

### Non-routine and Special Tasks

The program administrator, in cooperation with the Safety Committee, will review known physical and health hazards with employees who must do non-routine and special tasks. This instruction will generally occur at the time the work is scheduled. However, in an emergency, the review may occur immediately before the work begins.

If appropriate, the instruction will include:

- 1) Identification of the hazardous substance involved.
- 2) Methods of detecting the presence or release of the substances.
- 3) Specific physical and health hazards of the substance involved.
- 4) Measures the employee(s) can take to protect themselves from these hazards such as appropriate work practices, emergency procedures, and proper protective equipment.
- 5) An opportunity for employees to review the safety data sheets for any of the hazardous chemicals involved.

## CONTRACTORS

Contractors will be notified of the hazardous substances, harmful physical agents, and infectious agents they may encounter in the City and the protective measures that can be taken to avoid them.

The following supervisors will complete the "Contractor Notification" form and give it to the contractor before the work begins.

Supervisor	Department
Joe Spagnoletti	Public Works
Bryan Schowalter	Police
Chris Paulson	Fire
Cory Likes	Parks & Recreation
Charlie Judge	Facilities
Megan Schlei	Administration

Contractors are required to notify the City of any hazardous substance brought onto a city work site and shall provide the city with a material safety data sheet for each chemical. The department supervisor is responsible for obtaining this information and conveying it to any exposed City employee.

# FORMS



**Purpose:**

The Minnesota Employee Right to Know law requires that the above-named City notify on-site contractors of the hazardous substances, harmful physical agents, and/or infectious agents they may encounter at this workplace and the appropriate protective equipment necessary to avoid those hazards. This form is to be completed by the Department Supervisor and given to the contractor prior to starting the contracted work in an effort to meet the intent of that law.

**Identification:**

Contractor Name: \_\_\_\_\_ Phone: \_\_\_\_\_

Contractor Address: \_\_\_\_\_

Project Name/Location: \_\_\_\_\_

Department Supervisor/Title: \_\_\_\_\_

The hazardous substances used by the City to which the contractor's employees may be exposed are listed on the reverse side.

The material safety data sheets for these chemicals can be found at the following location(s):

Building/Office	Location/Contact Person
City Hall	Charlie Judge or Megan Schlei
Public Works	Joe Spagnoletti
Parks	Cory Likes
Fire	Chris Paulson
Police	Bryan Schowalter

Acknowledged receipt of this form:

\_\_\_\_\_  
Contractor Representative

\_\_\_\_\_  
Date

\_\_\_\_\_  
Municipal City Representative

\_\_\_\_\_  
Date

<b>Harmful Substances Harmful Physical Agents Infectious Agents</b>	<b>Measures to take to avoid exposure</b>	<b>Personal Protective Equipment Required (Contractor Responsibility)</b>

**THE LIST/INVENTORY OF HAZARDOUS CHEMICALS**

City of Hastings

Department \_\_\_\_\_

Location/Work Area \_\_\_\_\_

Contact Person/Phone Number \_\_\_\_\_

Chemical Identity Product Name	Operation Use of Product	SDS Y/N	Extremely Hazardous Substance Y/N	Hazard Rating		
				H	F	R

APPENDIX A  
Approval and Revision History

January 2024



## APPENDIX B -

### Safety Data Sheet Checklist

Each SDS must contain the following information:

- Product or chemical identity used on the label.
- Manufacturer's name and address.
- Chemical and common names of each hazardous ingredient.
- Name, address, and phone number for emergency information.
- Preparation or revision date.
- The hazardous chemical's physical and chemical characteristics (such as vapor pressure and flashpoint).
- Physical hazards, including the potential for fire, explosion, and reactivity.
- Known health hazards.
- OSHA permissible exposure limits (PEL), ACGIH Threshold Limit Value (TLV) or other exposure limits.
- Emergency and first-aid procedures.
- Whether OSHA, NTP or IARC lists the ingredients as a carcinogen.
- Precautions for safe handling and use.
- Control measures such as engineering controls, work practices, or personal protective equipment.
- Primary routes of entry.
- Procedures for spills, leaks and clean-up.

**eBinder Product List**

**Product Name**  
 Industrial Enamel HS Ultradeep Base  
 KRYLON Crystal Clear Acrylic Coating  
 Ursa Super Plus EC SAE 15W-40  
 ZEP GLASS CLEANER\_20N19\_12CT  
 KILZ 2 All-Purpose Interior/Exterior Primer  
 NAPA PREM PERF GEAR OIL SAE 80W-90 Gear Oil  
 SPADNS Reagent for Fluoride  
 ZEP DZ-7 NEUTRAL DISINFECTANT CLEANER 2.5GL  
 Stride Citrus SC Neutral Cleaner  
 3M Neutral Cleaner Concentrate  
 ACE RUST STOP Protective Enamel Indoor/Outdoor Black Gloss  
 WD-40 MULTI-USE PRODUCT - [Aerosol]  
 Wet Ones Antibacterial Hand Wipes Fresh Scent  
 Clorox Disinfecting Wipes1 - Crisp Lemon  
 Armor All Original Protectant - Spray  
 CONSUME ECO-LYZER  
 GOJO Green Certified Foam Hand, Hair & Body Wash  
 CLR CALCIUM, LIME & RUST REMOVER  
 Woolite Clean & Care Laundry Detergent - Sparkling Falls Scent  
 Hard Surface Cleaner  
 Easy-Off Heavy Duty Oven Cleaner  
 TURTLE WAX RUBBING COMPOUND HEAVY DUTY CLEANER  
 845 Insulator Wax  
 Castrol Super Clean AccuVision Direct Apply  
 Gold Class Car Wash Shampoo & Conditioner G71 [G7101 G7116 G7164 G7148K]  
 Brasso Metal Polish  
 PlastX Clear Plastic Cleaner & Polish G123 [G12306 G12310]  
 Ultimate Liquid Wax G182 [G18216 G18220]  
 Rain-X Pro Cerami-X Glass Cleaner + Water Repellent  
 Charcoal Lighter Fluid  
 ACE Premium Enamel Paint + Primer White Gloss  
 ACE RUST STOP INTERIOR/EXTERIOR OIL-BASED PRIMER, GRAY  
 DECK CORRECT REDWOOD  
 STA-BIL Storage Fuel Stabiliser  
 Stops Rust Advanced / Semi-Gloss Protective Enamel Spray Paint  
 RUST-OLEUM SPECIALTY COATINGS FLUORESCENT AEROSOL  
 KRYLON Interior/Exterior Paint Pumpkin Orange  
 Professional / High Performance Enamel Spray Paint - Metallic Coating  
 Hoppes Elite Gun Oil GO4  
 No. 9 Gun Bore Cleaner  
 Centerfire rifle and pistol ammunition (all calibers)  
 PURELL Hand Sanitizing Wipes  
 SPR200 Small Particle Reagent- White  
 Aervoe Construction Marking Paint - Aerosol  
 MetriCide OPA Plus  
 GRAZONNEXT High Load Herbicide  
 Hydrochloric Acid Solution  
 John Deere Hy-Gard and Hy-Gard LV Transmission andHydraulic Fluid  
 Brighton Professional Surface Disinfectant Spray  
 Kingsford Odorless Charcoal Lighter  
 ACCENTS 2X +SSPR 6PK MATTE BLACK  
 Sea Foam Motor Treatment  
 SPRAY PRODUCTS STARTING FLUID  
 TruFuel 4-cycle Fuel  
 F-500 Multi-Purpose Encapsulator Agent  
 ORTHO HOME DEFENSE INSECT KILLER FOR INDOOR & PERIMETER CONCENTRATE  
 AUTORF +SSPR 6PK AUTO PRIME SELF ETCHNG  
 MAG1 HI-TEMP DISC BRAKE WHEEL BEARING GREASE  
 Coil Cleaner (aerosol)  
 MOBIL 1 5W-30  
 Shell Rotella ELC Pre-diluted 50/50  
 MOBIL 1 15W-50

**Location: {All Locations}**

<b>Manufacturer</b>	<b>Revision Date</b>	<b>CAS #</b>	<b>Date Added</b>
THE SHERWIN-WILLIAMS COMPANY	2/4/2024 12:00:00 AM		4/3/2024
Krylon Products Group	1/21/2024 12:00:00 AM		4/3/2024
Chevron Products Company a division of Chevron U.S.A. Inc.	3/27/2024 12:00:00 AM		4/3/2024
ZEP Inc.	10/1/2023 12:00:00 AM		4/3/2024
Masterchem Industries LLC	3/7/2024 12:00:00 AM		3/22/2024
Valvoline Global Operations	1/17/2024 12:00:00 AM		3/22/2024
Hach Company	1/26/2024 12:00:00 AM		3/22/2024
ZEP Inc.	10/1/2023 12:00:00 AM		2/22/2024
Diversey, Inc.	12/19/2023 12:00:00 AM		2/5/2024
3M - Commercial Solutions Division	11/16/2023 12:00:00 AM		1/24/2024
ACE HARDWARE CORPORATION	11/3/2023 12:00:00 AM		1/7/2024
WD-40 Company Limited	2/9/2023 12:00:00 AM		1/7/2024
Edgewell Personal Care, LLC	6/6/2023 12:00:00 AM		1/7/2024
The Clorox Company	5/9/2022 12:00:00 AM		12/8/2023
Energizer Manufacturing, Inc.	9/11/2023 12:00:00 AM		11/21/2023
Spartan Chemical Company, Inc.	5/17/2023 12:00:00 AM		11/21/2023
GOJO Australasia Pty Ltd	11/21/2021 12:00:00 AM		11/21/2023
Jelmar, LLC	7/25/2023 12:00:00 AM		10/23/2023
Reckitt Benckiser LLC	8/1/2018 12:00:00 AM		10/23/2023
The Dial Corporation	2/26/2009 12:00:00 AM		10/23/2023
Reckitt Benckiser LLC	1/20/2021 12:00:00 AM		10/23/2023
Selleys, a division of DuluxGroup (New Zealand) Pty Ltd	5/31/2021 12:00:00 AM		10/23/2023
Collinite Corporation	5/20/2019 12:00:00 AM		10/23/2023
BP Lubricants USA Inc.	12/10/2004 12:00:00 AM		10/23/2023
MEGUIARS'S CANADA INC.	3/31/2020 12:00:00 AM		10/23/2023
Reckitt Benckiser LLC	6/5/2020 12:00:00 AM		10/23/2023
Meguiars United Kingdom Limited	10/8/2020 12:00:00 AM		10/23/2023
Meguiar's, Inc.	2/12/2020 12:00:00 AM		10/23/2023
ITW Global Brands	6/24/2021 12:00:00 AM		10/23/2023
Royal Oak Enterprises, LLC	5/20/2019 12:00:00 AM		10/23/2023
ACE HARDWARE CORPORATION	11/22/2022 12:00:00 AM		10/23/2023
Ace Hardware Corp.	8/8/2023 12:00:00 AM		10/23/2023
The Valspar Corporation - Architectural Coatings Division	3/30/2015 12:00:00 AM		10/23/2023
Trico Products	12/8/2017 12:00:00 AM		10/23/2023
Rust-Oleum Corporation	9/28/2020 12:00:00 AM		10/23/2023
Rust-Oleum Corporation	1/22/2008 12:00:00 AM		10/23/2023
Krylon Products Group	10/13/2020 12:00:00 AM		10/23/2023
Rust-Oleum Corporation	8/21/2023 12:00:00 AM		10/23/2023
Bushnell Holdings Inc	2/8/2019 12:00:00 AM		10/20/2023
Bushnell Holdings Inc	10/13/2022 12:00:00 AM		10/20/2023
Federal Cartridge Company d/b/a CCI/Speer	11/30/2020 12:00:00 AM		10/20/2023
GOJO Industries, Inc.	6/8/2020 12:00:00 AM		10/20/2023
SIRCHIE	2/16/2021 12:00:00 AM		10/20/2023
Aervoe Industries Inc.	3/12/2014 12:00:00 AM		10/20/2023
Metrex Research	7/11/2022 12:00:00 AM	643-79-8	10/20/2023
Dow AgroSciences LLC	5/8/2015 12:00:00 AM		10/20/2023
Transchem Inc	5/30/2018 12:00:00 AM	7647-01-	10/20/2023
Phillips 66 Company Lubricants Division	5/9/2019 12:00:00 AM		10/20/2023
Staples Contract & Commercial, Inc.	4/1/2017 12:00:00 AM		10/20/2023
The Clorox Company	3/6/2019 12:00:00 AM	64742-4	10/19/2023
Rust-Oleum Corporation	10/18/2022 12:00:00 AM		10/19/2023
Sea Foam International, Inc.	6/8/2021 12:00:00 AM		10/19/2023
SPRAY PRODUCTS CORPORATION	7/12/2023 12:00:00 AM		10/19/2023
Calumet Branded Products, LLC	5/8/2023 12:00:00 AM		10/19/2023
Hazard Control Technologies Inc	2/18/2021 12:00:00 AM		10/19/2023
The ORTHO Group	10/12/2020 12:00:00 AM		10/19/2023
Rust-Oleum Corporation	12/5/2022 12:00:00 AM		10/19/2023
Warren Distribution, Inc.	12/31/2002 12:00:00 AM		10/19/2023
PPA Industries Inc	8/30/2022 12:00:00 AM		10/19/2023
Exxon Mobil Corporation	10/28/2022 12:00:00 AM		10/19/2023
Shell Oil Products US	7/16/2021 12:00:00 AM		10/19/2023
Imperial Oil Downstream	11/9/2021 12:00:00 AM		10/19/2023

Final Charge Global 50/50 Prediluted Antifreeze and Coolant	Old World Industries, LLC	11/1/2019 12:00:00 AM	10/19/2023
STIHL WOODCUTTER BAR & CHAIN LUBRICANT	OMNI Specialty Packaging	8/9/2019 12:00:00 AM	10/19/2023
Pennzoil High Mileage Vehicle SAE 10W-30 Motor Oil	Shell Oil Products US	2/17/2023 12:00:00 AM	10/19/2023
MM PSF W/SL UNIVRSL 12/32OZ	Niteo Products, LLC	3/29/2023 12:00:00 AM	10/19/2023
XPS 2T Synthetic Blend Engine Oil	BRP US Inc.	8/29/2019 12:00:00 AM	10/19/2023
Arctic Cat Chain Lube	Arctic Cat Inc	5/26/2015 12:00:00 AM	10/19/2023
DIESEL 9+1-1	Power Service Products, Inc.	3/23/2022 12:00:00 AM	10/19/2023
Geocel PRO FLEX RV Flexible Sealant Bright White	Geocel Products Group A Business Unit of The Sherwin-Williams Company	8/2/2023 12:00:00 AM	10/19/2023
BG In-Force Penetrating Oil (Bulk)	BG PRODUCTS, INC.	4/16/2019 12:00:00 AM	10/19/2023
3-IN-ONE Multi-Purpose Oil - [Aerosol]	WD-40 Company Limited	9/26/2022 12:00:00 AM	10/19/2023
Battery Terminal Protector - 7.5 oz	CRC Industries, Inc.	6/30/2021 12:00:00 AM	10/19/2023
QD Electronic Cleaner - 11 oz	CRC Industries, Inc.	8/18/2023 12:00:00 AM	10/19/2023
Goof Off Pro Strength Remover Aerosol	W. M. Barr	6/28/2022 12:00:00 AM	10/19/2023
NAPA Mac's Ignition & Battery Sealer	Balkamp, Inc.	9/3/2017 12:00:00 AM	10/19/2023
Valvoline Professional Series DOT 3 Brake Fluid	Valvoline LLC	5/17/2023 12:00:00 AM	10/19/2023
Clorox Toilet Bowl Cleaner Bleach - All Scents	The Clorox Company	9/8/2020 12:00:00 AM	10/18/2023
ZEP PROFESSIONAL HEAVY-DUTY DEGREASER 1GL 4CT	ZEP Inc.	2/16/2023 12:00:00 AM	10/18/2023
FRMLA ZEP FORMULA 50	ZEP Inc.	1/25/2023 12:00:00 AM	10/18/2023
3M Yellow Super Weatherstrip and Gasket Adhesive, 08001, 08002	3M - Construction and Home Improvement Products	3/28/2023 12:00:00 AM	10/19/2023
CAT ELC (Extended Life Coolant)	Chevron Products Company Global Lubricants	2/23/2023 12:00:00 AM	10/19/2023
NAPA Quality AW Hydraulic Oil	Warren Oil Company, LLC	5/28/2019 12:00:00 AM	10/19/2023
PEAK -30 °F ALL-IN-ONE Windshield Wash	Old World Industries, LLC	6/15/2020 12:00:00 AM	10/19/2023
Synthetic Compressor Oil	Amsoil Inc	9/8/2023 12:00:00 AM	10/19/2023
3M General Purpose Adhesive Cleaner, PN 08987	3M Canada Company	5/19/2023 12:00:00 AM	10/19/2023
Goo Gone Pro Power	Goo Gone	11/19/2021 12:00:00 AM	10/19/2023
Alex Plus Acrylic Latex Caulk Plus Silicone - All Colors	DAP Global Inc.	8/22/2023 12:00:00 AM	10/19/2023
LPS 1 - Greaseless Lubricant	KIMBALL-MIDWEST	7/1/2008 12:00:00 AM	10/19/2023
A07327 ZEP 45 NC 014901 20N15OBS	ZEP Inc.	1/5/2018 12:00:00 AM	10/19/2023
Liquid Wrench Lock & Hinge Dry Lube	Blumenthal Brands Integrated, LLC	5/27/2020 12:00:00 AM	10/19/2023
Valvoline Heavy Duty Carb & Throttle Body Cleaner	Valvoline LLC	9/11/2018 12:00:00 AM	10/19/2023
NAPA Foam Sealant	ICP Adhesives & Sealants, Inc.	7/26/2016 12:00:00 AM	10/19/2023
YAMALUBE Utility Performance Four Stroke 5W-30	Phillips 66 Spectrum Corporation	1/7/2021 12:00:00 AM	10/19/2023
Instant Cyanoacrylate Adhesive	J-B WELD COMPANY	11/11/2014 12:00:00 AM	10/19/2023
NAPA Automatic Transmission Fluid	Valvoline LLC	5/22/2017 12:00:00 AM	10/18/2023
INSTANT HULL CLEANER GEL FORMULA	Star brite Inc.	1/21/2015 12:00:00 AM	10/18/2023
HOT SAUCE	Boat Bling Inc	1/16/2020 12:00:00 AM	10/18/2023
NAPA Mac's Engine Cleaner & Degreaser	Balkamp, Inc.	2/3/2017 12:00:00 AM	10/18/2023
Isopropyl Alcohol (IPA)	Cumberland Swan	7/1/2006 12:00:00 AM	10/18/2023
Kleer View	Noble Chemical	11/10/2014 12:00:00 AM	10/18/2023
ZEP CONCENTRATED GLASS CLEANER	ZEP Inc.	4/22/2020 12:00:00 AM	10/18/2023
Georgia-Pacific Heavy Duty Industrial Hand Cleaner	Georgia-Pacific Consumer Products LP	7/2/2019 12:00:00 AM	10/18/2023
ZEP ORIGINAL ORANGE 20GL	ZEP Inc.	3/25/2019 12:00:00 AM	10/18/2023
Cottonelle Flushable Wipes	Kimberly-Clark Corporation	6/10/2019 12:00:00 AM	10/18/2023
Great Value Clear Ammonia All Purpose Cleaner	KIK International LLC	1/8/2018 12:00:00 AM	10/18/2023
PROFESSIONAL DRAIN OPENER	G.K. Chemical Specialties Co	8/25/2021 12:00:00 AM	7664-93 10/18/2023
TOUGH ON GREASE	Spartan Chemical Company, Inc.	10/30/2014 12:00:00 AM	10/18/2023
HDX Cleaning Vinegar 64 fl oz	KIK International LLC	1/26/2021 12:00:00 AM	10/18/2023
WINDEX CLEANER OUTDOOR	S.C. Johnson and Son, Limited	6/10/2014 12:00:00 AM	10/18/2023
RUG DOCTOR Professional Oxy Deep Cleaner	Rug Doctor, LLC	2/5/2016 12:00:00 AM	10/18/2023
Concrobium Mold Control	Siamons International	6/12/2018 12:00:00 AM	10/18/2023
Clorox Pro Results Outdoor Bleach	The Clorox Company	12/9/2020 12:00:00 AM	10/18/2023
OFF! ACTIVE PUMP SPRAY INSECT REPELLENT (REG. NO. 28058 P.C.P. ACT)	S.C. Johnson and Son, Limited	7/31/2017 12:00:00 AM	10/18/2023
Equate DF-374-33-2 Sport Performance SPF50 CS	Fruit of the Earth, Inc.	2/6/2018 12:00:00 AM	10/18/2023
Formula 409 Multi-Surface Cleaner – Lemon Fresh	The Clorox Company	5/16/2018 12:00:00 AM	10/18/2023
ZEP ZEPYNAMIC A II SURFACE DISINFECTANT	ZEP Inc.	2/12/2018 12:00:00 AM	10/18/2023
enMotion Gentle Foam Soap with Moisturizers Fragrance Free	Georgia-Pacific Consumer Products LP	2/27/2020 12:00:00 AM	10/18/2023
S.O.S Steel Wool Soap Pads	The Clorox Company of Canada Ltd.	8/27/2021 12:00:00 AM	10/18/2023
Clorox Disinfecting Wipes - Lemon Fresh	The Clorox Company of Canada Ltd.	8/27/2021 12:00:00 AM	10/18/2023
Clorox Disinfecting Wipes - Fresh Scent	The Clorox Company of Canada Ltd.	8/27/2021 12:00:00 AM	10/18/2023
Tide PODS Ultra Oxi	Procter & Gamble, Fabric and Home Care Division	3/14/2022 12:00:00 AM	10/18/2023
Bounce Fresh Fabric Softener Sheets	Kleen Test Products Corp	11/28/2018 12:00:00 AM	10/18/2023
Cascade Complete Gel Dishwasher Detergent, Citrus Scent	Procter & Gamble, Fabric and Home Care Division	9/16/2021 12:00:00 AM	10/18/2023
Cascade ActionPacs Complete Lemon	Procter & Gamble, Fabric and Home Care Division	5/27/2022 12:00:00 AM	10/18/2023
HDX Germicidal Bleach2	KIK International LLC	8/16/2019 12:00:00 AM	10/18/2023

Defend	Continental Research Corporation	1/20/2023 12:00:00 AM	10/18/2023
Windex Streak-free Shine! Original (liquid)	S.C. Johnson & Son Pty Ltd	1/10/2023 12:00:00 AM	10/18/2023
Great Value Bleach Concentrated 81 fl oz	KIK International LLC	5/26/2020 12:00:00 AM	10/18/2023
Shout Advanced Action Gel	S.C. Johnson & Son, Inc.	8/12/2020 12:00:00 AM	10/18/2023
Formula 409 Multi-Surface Cleaner	The Clorox Company	2/14/2022 12:00:00 AM	10/18/2023
TOUGH ON GREASE	Spartan Chemical Company, Inc.	5/1/2020 12:00:00 AM	10/17/2023
PLEDGE EXPERT CARE WIPES – LEMON SCENT	S.C. Johnson & Son, Inc.	12/22/2021 12:00:00 AM	10/16/2023
FREEZE + P NF Aerosols various sizes	AERKO INTERNATIONAL	3/22/2018 12:00:00 AM	10/13/2023
Satellite	Dalco	11/3/2016 12:00:00 AM	10/13/2023
Lime Solvent	Dalco	4/7/2019 12:00:00 AM	10/13/2023
Stainless Steel Cleaner	Multi-Clean	1/1/2020 12:00:00 AM	10/12/2023
Raid Ant Killer 16 - Unscented (Aerosol)	S.C. Johnson & Son, Inc.	5/15/2003 12:00:00 AM	10/12/2023
Blast Off	Dalco Enterprises	8/7/2015 12:00:00 AM	10/12/2023
The Wave 1.5	Fresh Products, LLC	6/3/2019 12:00:00 AM	10/12/2023
Crew Super Blue	Diversey, Inc.	5/11/2017 12:00:00 AM	10/12/2023
ZEP DRAIN DEFENSE PIPE BUILD-UP RMVR	ZEP Inc.	7/1/2019 12:00:00 AM	10/12/2023
BACTERIAL DRAIN MAINTAINER	W.W. Grainger, Inc.	2/3/2020 12:00:00 AM	10/12/2023
Ace Wasp & Hornet Killer4	CHEMISCO DIV OF UNITED INDUSTRIES CORP	4/16/2015 12:00:00 AM	10/12/2023
Big O	Northland Chemical Supply	5/13/2015 12:00:00 AM	10/12/2023
Industrial Choice Aerosol - Solvent Based Inverted Marking Paint	Rust-Oleum Corporation	6/7/2006 12:00:00 AM	10/12/2023
Noxon Metal Polish Liquid	Reckitt Benckiser LLC	6/9/2016 12:00:00 AM	10/12/2023
SHINE	CONTINENTAL RESEARCH CORP	1/13/2015 12:00:00 AM	10/12/2023
Original Krud Kutter concentrated Cleaner / Degreaser	Rust-Oleum Europe - Martin Mathys NV	2/15/2022 12:00:00 AM	10/12/2023
Big D Granular Deodorant All Fragrances	Big D Industries, Inc.	1/30/2023 12:00:00 AM	8031-18 10/12/2023
MURPHY OIL SOAP WOOD CLEANER LIQUID - ORIGINAL B02906500003	Colgate-Palmolive Company	10/18/2022 12:00:00 AM	10/12/2023
3M Quat Disinfectant Cleaner Ready-to-Use (Product No. 5, 3M Chemical Management Systems)	3M Canada Company	10/20/2020 12:00:00 AM	10/12/2023
Tri-Flow Industrial Lubricant with Teflon- 12 oz. aerosol (TF20027)	KIMBALL-MIDWEST	1/1/2013 12:00:00 AM	10/12/2023
ORTHO HOME DEFENSE ANT, ROACH & SPIDER KILLER2	The ORTHO Group	4/26/2017 12:00:00 AM	10/12/2023
Hot Shot Ant, Roach & Spider Killer (Fragrance Free)	Spectrum Group - Division of United Industries	8/19/2019 12:00:00 AM	10/12/2023
DRANO MAX GEL CLOG REMOVER	S.C. Johnson & Son, Inc.	5/25/2021 12:00:00 AM	10/12/2023
DPD Free Chlorine Reagent	Hach Company	2/8/2023 12:00:00 AM	10/5/2023
SCRUB_ENDER	STATE INDUSTRIAL PRODUCTS	5/3/2022 12:00:00 AM	7/27/2023
ClearLane enhanced deicer	Cargill Incorporated	4/16/2018 12:00:00 AM	6/5/2023
TYPHOON	Hillyard Industries	8/24/2021 12:00:00 AM	5/5/2023
Suprox - Heavy Duty	Hillyard Industries	5/22/2019 12:00:00 AM	5/5/2023
Phenol Red Indicator Solution	Hach Company	2/8/2023 12:00:00 AM	3/15/2023
NATURALIZER ED	CERTIFIED LABS, DIV. OF NCH CORP.	4/8/2022 12:00:00 AM	2/26/2023
Original Pine-Sol Multi-Surface Cleaner	The Clorox Company	1/23/2023 12:00:00 AM	2/20/2023
Mr Clean Clean Freak Zero	Procter & Gamble, Fabric and Home Care Division	9/26/2022 12:00:00 AM	2/15/2023
Lenox Saw Blades	Lenox Tools	11/10/2022 12:00:00 AM	1/27/2023
YIELD AEROSOL	CHEMSEARCH DIV. OF NCH CORP.	1/11/2023 12:00:00 AM	1/22/2023
Clorox Urine Remover For Stains & Odors	The Clorox Company	12/1/2021 12:00:00 AM	11/27/2022
ICE FIGHTER PLUS	Morgro, Inc.	8/25/2022 12:00:00 AM	11/27/2022
NATURALIZER VC	CHEMSEARCH DIV. OF NCH CORP.	4/8/2022 12:00:00 AM	11/27/2022
WINDEX CLEANER WITH VINEGAR	S.C. Johnson & Son, Inc.	7/15/2020 12:00:00 AM	11/3/2022
WINDEX Glass & Surface Wipes Original Intermediate (Material 213067)	S.C. Johnson & Son, Inc.	8/26/2021 12:00:00 AM	11/3/2022
NOVUS PLASTIC POLISH #1 (Plastic Clean & Shine, NOVUS No 1)	NOVUS 2 LLC	10/21/2020 12:00:00 AM	9/28/2022
THREAD-EZE ULTRA AEROSOL	CHEMSEARCH DIV. OF NCH CORP.	6/2/2022 12:00:00 AM	9/22/2022
Potassium Iodide	Hach Company	8/10/2021 12:00:00 AM	8/12/2022
DOWTHERM SR-1 Heat Transfer Fluid, Dyed	Dow Chemical Canada ULC	5/5/2022 12:00:00 AM	107-21-1 7/18/2022
DPD Total Chlorine Reagent	Hach Company	6/1/2022 12:00:00 AM	7/11/2022
Fluoride Standard Solution 1.00 mg/L as F	Hach Company	8/10/2021 12:00:00 AM	4/18/2022
SPADNS2 (Arsenic-Free) Fluoride Reagent	Hach Company	9/7/2021 12:00:00 AM	4/12/2022
Construction Marking Paint	Aerovee Industries Inc.	1/4/2022 12:00:00 AM	3/9/2022
ICEB'GONE	Taconic Maintenance	5/13/2020 12:00:00 AM	2/17/2022
ICEB'GONE MAGIC	Taconic Maintenance	5/13/2020 12:00:00 AM	7647-14 2/17/2022
AA-315	International Chemtex Corporation	7/24/2018 12:00:00 AM	2/15/2022
NEUTRALIZER	Hillyard Industries	12/2/2021 12:00:00 AM	2/5/2022
Sodium Thiosulfate Standard Solution, Stabilized, 0.0246 N	Hach Company	8/10/2021 12:00:00 AM	12/12/2021
Foremost 5051-ES Weedzout	DELTA FOREMOST CHEMICAL CORPORATION	9/9/2020 12:00:00 AM	12/6/2021
CAN DO	Continental Research Corporation	3/25/2015 12:00:00 AM	9/20/2021
Turbochef Oven Cleaner	CHEMCO CORP.	7/29/2019 12:00:00 AM	8/27/2021
ORANGE TOUGH 15	Spartan Chemical Company, Inc.	7/2/2021 12:00:00 AM	7/29/2021
KaiO Water Soluble Cleaner	Kaivac, Inc.	2/26/2021 12:00:00 AM	7/12/2021

KaiDri			
VOLTZ II			
LIME-A-WAY			
Hydrofluosilicic Acid			
Sodium Bicarbonate			
CHEVRON Turbine Oil GST			
Red Line SuperCool Concentrate Antifreeze/Coolant			
REGAL R & O			
KaiBlooey (Concentrate and 64:1 water dilution)			
Q.T. Plus			
Suprox - GLASS & FLOOR			
MURPHY OIL SOAP LIQUID - ORIGINAL BDC B02906500019			
3M Quat Disinfectant Cleaner Ready-to-Use (Product No. 5, Twist 'n Fill System)			
PRIZM			
Molecules Dry			
LIMEAWAY			
HighLight			
GENERAL PURPOSE SPOTTER			
FORMULA 815MX RTU			
ENGAGE			
Citric Acid 50% FG			
Chlorine - EPA Reg. No. 7870-2			
DROP DEAD AEROSOL (15 OZ)			
CREW SUPER BLUE MILD ACID BOWL CLEANER			
CRACK BACK			
CONJURE - MISTY MOUNTAIN			
CONJURE - APPLE BLOSSOM			
COMET DISINFECTANT CLEANSER w/CHLORINOL			
AJAX CLEANER POWDER-OXYGEN BLEACH			
BLACK BELT - Gloss & Satin Black			
PERMATEx #133 Anti-Seize Lubricant - 8 oz. brush top bottle			
Philips T8 Fluorescent Lamps -- All Types All ALTO, non-ALTO, Standard, HO, Circular, U-Bent and TuffGuard All lengths, coatings, wattage			
Ajax Oxygen Bleach Cleanser			
CONSUME			
FIX TERG-O-CIDE/FIX TERG-O-CIDE IN A CAN			
Cleaning Companion Q.T. Plus			
THE WAVE 3D AIR FRESHENER (Mango)			
WIWAX Cleaning and Maintenance Solution			
Propane			
Northland Eliminate			
NABC URINAL SCREEN WITH DEODORIZING BLOCK & BLUE DYE INDICATOR			
Kresto Classic			
KAIBLOOEY			
3M Heavy Duty Multi-Surface Cleaner Concentrate (Product No. 2, 3M Chemical Management Systems)			
3M Glass Cleaner Concentrate			
GERMICIDAL BOWL CLEANSE			
Gasoline			
End Bac II Spray Disinfectant			
DuPont FREON 22 Refrigerant			
CONCRETE ICE RINK SEALER, CLEAR			
Clorox Commercial Solutions Clorox Urine Remover for Stain & Odor			
CS-4241			
APS-20			
ARC-PREP ELECTRODE			
DURA-WELD ELECTRODE			
SCOTCHGARD TILE AND GROUT PROTECTOR			
Azone 15 - EPA Reg. No. 7870-5			
4NA76 - Oil Multi Purpose 4 Oz			
WASP AWAY NG			
Vinegar			
Sani Screens			
Sani Flush			
Swirl Cleaner			
Spotlite Swipes			
Kaivac, Inc.	2/26/2021 12:00:00 AM		6/17/2021
CHEMSEARCH DIV. OF NCH CORP.	11/24/2020 12:00:00 AM		5/31/2021
Ecolab Inc.	3/11/2021 12:00:00 AM		4/14/2021
Hawkins, Inc.	3/5/2021 12:00:00 AM		3/10/2021
Rhone-Poulenc Basic Chemicals Co.	4/25/1994 12:00:00 AM	144-55-E	3/1/2021
Chevron Products Company	6/1/2001 12:00:00 AM		3/1/2021
RED LINE SYNTHETIC OIL CORP	1/21/2021 12:00:00 AM		2/26/2021
Equilon Enterprises, LLC	1/4/1999 12:00:00 AM		2/26/2021
Kaivac, Inc.	10/29/2020 12:00:00 AM		1/28/2021
Hillyard Industries	8/1/2019 12:00:00 AM		11/20/2020
Hillyard Industries	5/22/2019 12:00:00 AM		11/20/2020
Colgate-Palmolive Company	8/20/2020 12:00:00 AM		11/8/2020
3M - Commercial Solutions Division	9/23/2014 12:00:00 AM		10/23/2020
Drummond American Corporation	9/15/2018 12:00:00 AM		10/23/2020
NORTHLAND CHEMICAL CORPORATION	7/1/2010 12:00:00 AM		10/23/2020
Ecolab Inc.	4/30/1998 12:00:00 AM		10/23/2020
NORTHLAND CHEMICAL CORPORATION	8/1/2010 12:00:00 AM	68476-8	10/23/2020
Johnson Wax Professional	5/20/2003 12:00:00 AM		10/23/2020
BRULIN & COMPANY, INC.	4/10/2015 12:00:00 AM		10/23/2020
Drummond American, A Lawson Products Company	1/27/2012 12:00:00 AM		10/22/2020
Hawkins, Inc.	1/28/2020 12:00:00 AM	77-92-9	10/22/2020
Hawkins, Inc.	7/6/2016 12:00:00 AM	7782-50	9/29/2020
CHEMSEARCH DIV. OF NCH CORP.	8/30/2013 12:00:00 AM		7/17/2020
JohnsonDiversey, Inc.	4/14/2004 12:00:00 AM		7/15/2020
Drummond, A Lawson Brand	3/20/2013 12:00:00 AM		7/15/2020
Drummond American, A Lawson Products Company	1/27/2012 12:00:00 AM		7/13/2020
Drummond American, A Lawson Products Company	1/27/2012 12:00:00 AM		7/13/2020
Namco Manufacturing Inc	2/15/1999 12:00:00 AM		7/7/2020
Colgate-Palmolive Company	12/15/2016 12:00:00 AM		7/2/2020
CONTINENTAL RESEARCH CORP	10/10/2012 12:00:00 AM		6/3/2020
Permatex, Inc.	6/30/2012 12:00:00 AM		5/20/2020
Philips Lighting Company A Division of Philips Electronics North America Corporation	7/10/2013 12:00:00 AM	65997-1	5/20/2020
Colgate-Palmolive Company	6/4/2007 12:00:00 AM	1317-65	5/20/2020
Spartan Chemical Company, Inc.	3/25/2020 12:00:00 AM		5/6/2020
STATE INDUSTRIAL PRODUCTS	11/8/2019 12:00:00 AM		5/6/2020
Hillyard Industries	8/1/2019 12:00:00 AM		4/22/2020
Hillyard	4/23/2015 12:00:00 AM		4/22/2020
Diversey, Inc.	9/13/2018 12:00:00 AM		4/22/2020
Enable Midstream Partners	1/1/2020 12:00:00 AM		4/22/2020
NORTHLAND CHEMICAL CORPORATION	10/1/2013 12:00:00 AM		4/22/2020
Spartan Chemical Company, Inc.	9/17/2019 12:00:00 AM		4/22/2020
Deb-STOKO USA LLC	6/1/2015 12:00:00 AM		4/22/2020
Kaivac, Inc.	4/12/2016 12:00:00 AM		4/22/2020
3M - Commercial Solutions Division	1/19/2018 12:00:00 AM		4/22/2020
3M - Commercial Solutions Division	1/19/2018 12:00:00 AM		4/22/2020
Spartan Chemical Company, Inc.	9/17/2019 12:00:00 AM		4/22/2020
HTP Energy	4/13/2020 12:00:00 AM		4/22/2020
Diversey, Inc.	11/26/2019 12:00:00 AM		4/22/2020
DuPont	3/16/2015 12:00:00 AM	75-45-6	4/22/2020
Sierra Corp/TK Products	1/2/2007 12:00:00 AM		4/22/2020
Clorox Professional Products Company	1/5/2015 12:00:00 AM		4/22/2020
International Chemtex Corporation	9/21/2004 12:00:00 AM		4/22/2020
International Chemtex Corporation	7/8/2015 12:00:00 AM		4/22/2020
X-ERGON, A PARTSMASER CO., DIV OF NCH	6/3/2013 12:00:00 AM		4/20/2020
X-ERGON, A PARTSMASER CO., DIV OF NCH	5/22/2007 12:00:00 AM		4/20/2020
3M - Building & Commercial Services Division	8/3/2011 12:00:00 AM		4/19/2020
Hawkins, Inc.	2/8/2019 12:00:00 AM		4/15/2020
LA-CO INDUSTRIES, INC.	10/26/2010 12:00:00 AM		4/15/2020
Continental Research Corporation	10/23/2014 12:00:00 AM		4/15/2020
Fleischmann's Vinegar Company	7/23/2019 12:00:00 AM	64-19-7	4/15/2020
NORTHLAND CHEMICAL CORPORATION	7/1/2010 12:00:00 AM		4/15/2020
Northland Chemical Supply	5/20/2015 12:00:00 AM		4/15/2020
Drummond American, A Lawson Products Company	1/27/2012 12:00:00 AM		4/15/2020
Drummond American, A Lawson Products Company	1/24/2012 12:00:00 AM		4/15/2020

Northland Snake Drain Opener	NORTHLAND CHEMICAL CORPORATION	10/27/2015 12:00:00 AM	4/15/2020
Shower Power	NORTHLAND CHEMICAL CORPORATION	5/1/2012 12:00:00 AM	4/15/2020
TRI-FLOW Red Grease	Sherwin-Williams Company - Consumer Group - Industrial	4/22/2013 12:00:00 AM	4/15/2020
TUFF STUFF	CONTINENTAL RESEARCH CORP	4/18/2016 12:00:00 AM	4/15/2020
THREAD-EZE-#2 CAN	CHEMSEARCH DIV. OF NCH CORP.	12/3/2009 12:00:00 AM	4/9/2020
TerraCair Ultrapure Diesel Exhaust Fluid	Terra Environmental	10/22/2012 12:00:00 AM	57-13-6 4/9/2020
T-SHIELD AEROSOL	Mantek, Division of NCH Corp	8/30/2013 12:00:00 AM	4/9/2020
SUPER HUSKY 303 Toilet Bowl Cleaner	Canberra Corporation	12/31/2014 12:00:00 AM	4/9/2020
HOST Pre-Clean	RACINE INDUSTRIES, INC.	6/5/2019 12:00:00 AM	3/27/2020
Sodium Carbonate	FMC Wyoming Corporation - Alkali Chemicals Division	8/3/2011 12:00:00 AM	497-19-£ 3/16/2020
Sleet	Drummond, A Lawson Brand	2/10/2014 12:00:00 AM	3/12/2020
STODDARD SOLVENT	Phillips 66 Company	10/1/1985 12:00:00 AM	8052-41- 3/12/2020
Sani-Flush	NORTHLAND CHEMICAL CORPORATION	3/1/2012 12:00:00 AM	3/12/2020
Salt Rinse	Goldstar Products Inc	3/28/2013 12:00:00 AM	3/12/2020
RECLAIM	Drummond, A Lawson Brand	4/24/2014 12:00:00 AM	Floor Ca 3/12/2020
Purple Power Concentrated Industrial Strength Cleaner/Degreaser	Aiken Chemical Company, Inc.	9/16/2016 12:00:00 AM	3/11/2020
Kresto Citrus	Deb USA, Inc.	10/7/2015 12:00:00 AM	3/11/2020
ROUNDUP WEED & GRASS KILLER CONCENTRATE PLUS	Monsanto Company	5/17/2016 12:00:00 AM	3/11/2020
Acrylic Floor Wax	Lundmark Wax Company	11/22/2014 12:00:00 AM	3/11/2020
NOVUS PLASTIC POLISH #2	NOVUS Inc.	8/29/2018 12:00:00 AM	3/11/2020
Deep Blue Concentrate 1:20	BETCO CORPORATION	8/28/2018 12:00:00 AM	3/11/2020
3M Neutral Cleaner Concentrate (Product No. 3, 3M Chemical Management Systems)	3M - Commercial Solutions Division	5/22/2018 12:00:00 AM	3/11/2020
3M Non-Acid Disinfectant Bathroom Cleaner Concentrate (Product No.15, 3M Chemical Management Systems)	3M New Zealand Ltd	11/21/2017 12:00:00 AM	3/11/2020
3M Bathroom Disinfectant Cleaner Concentrate (Product No. 4, 3M Chemical Management Systems)	3M - Commercial Solutions Division	1/19/2018 12:00:00 AM	3/11/2020
Continental Joe Industrial Cleaner	CONTINENTAL RESEARCH CORP	5/21/2014 12:00:00 AM	3/11/2020
SPARCLING	Spartan Chemical Company, Inc.	9/17/2019 12:00:00 AM	3/11/2020
ENDBAC II AEROSOL	Diversey, Inc.	5/25/2011 12:00:00 AM	3/10/2020
BANANAS FOSTER BASE	Fruitcrown Products Corporation	10/29/2019 12:00:00 AM	3/10/2020
GEM GLO CHERRY MAHOGANY A/C ST	Gemini Coatings	2/20/2020 12:00:00 AM	3/10/2020
Natural Cherry Flavor WONF	FLAVOR PRODUCERS	2/21/2020 12:00:00 AM	3/10/2020
Banana Boat Kids Tear-Free Sunscreen Spray SPF 50+	Edgewell Personal Care Canada, ULC	1/30/2020 12:00:00 AM	3/10/2020
RALLY HONEYSUCKLE	Drummond American, A Lawson Products Company	1/27/2012 12:00:00 AM	3/6/2020
RHOMA-SOL	RHOMAR INDUSTRIES INC	9/13/2017 12:00:00 AM	3/6/2020
3M QUAT DISINFECTANT CLEANER Ready-to-Use (Product No. 5, Twist 'n Fill System)	3M - Building & Commercial Services Division	6/2/2010 12:00:00 AM	3/6/2020
QPR	Lafarge North America Inc.	4/20/2005 12:00:00 AM	3/6/2020
P.O.G. Spotter Gel	Diversey, Inc.	5/21/2014 12:00:00 AM	2/27/2020
Drummond Pentox Calcium Lime and Rust Remover	Drummond, A Lawson Brand	7/26/2018 12:00:00 AM	2/27/2020
PEARLUX PEARLIZED HAND CLEANER, HAIR & BODY SHAMPOO	Spartan Chemical Company, Inc.	12/16/2016 12:00:00 AM	2/27/2020
Pipe Sealant W/Teflon	Loctite Corporation	1/1/1994 12:00:00 AM	2/26/2020
Odor-Sorb	NORTHLAND CHEMICAL CORPORATION	8/1/2010 12:00:00 AM	2/26/2020
MOBIL DELVAC 1300 SUPER 15W40	Imperial Oil Products Division	5/4/2012 12:00:00 AM	2/25/2020
UNIVERZOL NON-DETERGENT MOTOR OIL SERIES	Lubrication Technologies, Inc.	6/10/2002 12:00:00 AM	2/24/2020
3M NEUTRAL CLEANER READY-TO-USE (Product No. 3, Twist 'n Fill System)	3M - Building & Commercial Services Division	5/4/2011 12:00:00 AM	2/24/2020
Natures Way	NORTHLAND CHEMICAL CORPORATION	5/22/2015 12:00:00 AM	2/24/2020
GASOLINE	Flint Hills Resources Corpus Christi, LLC	9/4/2018 12:00:00 AM	2/21/2020
Shower Power	Northland Chemical Supply	10/23/2014 12:00:00 AM	2/21/2020
Molecules Dry	Northland Chemical Supply	11/11/2014 12:00:00 AM	2/21/2020
LUBRIPLATE FGL-1	LUBRIPLATE Lubricants Co.	12/20/2012 12:00:00 AM	2/19/2020
ORIGINAL KRUD KUTTER	SUPREME CHEMICALS OF GEORGIA, INC.	6/8/2011 12:00:00 AM	2/19/2020
RANDO HD	Equilon Enterprises, LLC	7/15/1999 12:00:00 AM	2/19/2020
HYDROFLUOROSILICIC ACID	DPC INDUSTRIES INC	5/1/2015 12:00:00 AM	2/19/2020
LIGHT FORCE	NORTHLAND CHEMICAL CORPORATION	5/1/2012 12:00:00 AM	2/18/2020
19 OZ GLEME GLASS CLEANER LT 12PK	Claire Manufacturing Co.	3/10/2017 12:00:00 AM	2/18/2020
Big D D'vour	Big D Industries, Inc.	10/18/2018 12:00:00 AM	9003-04 2/18/2020
Foremost 529-ES Winter Slix	DELTA FOREMOST CHEMICAL CORPORATION	3/18/2015 12:00:00 AM	2/18/2020
Foremost 615-ES Super Transpo Wash	DELTA FOREMOST CHEMICAL CORPORATION	6/12/2013 12:00:00 AM	2/18/2020
Foremost 1111-ES Salt Free	DELTA FOREMOST CHEMICAL CORPORATION	11/10/2014 12:00:00 AM	2/18/2020
Foremost 1801 Citri-Soy	DELTA FOREMOST CHEMICAL CORPORATION	10/13/2014 12:00:00 AM	2/18/2020
Foremost 1817 Citri-Kote NA1993	DELTA FOREMOST CHEMICAL CORPORATION	10/10/2014 12:00:00 AM	2/18/2020
EXTRACTION SC - USE SOLUTION	Johnson Wax Professional	12/17/2002 12:00:00 AM	1300-72 2/14/2020
DROP DEAD II AEROSOL	CHEMSEARCH DIV. OF NCH CORP.	8/15/2013 12:00:00 AM	2/12/2020
Drop Dead Aerosol (15 OZ)	CHEMSEARCH DIV. OF NCH CORP.	2/21/2002 12:00:00 AM	2/12/2020
Dawn Professional Manual Pot and Pan Detergent - Made From Concentrate	Procter & Gamble Professional	5/14/2018 12:00:00 AM	2/12/2020
FUEL OIL NO. 2 (LOW SULFUR)	Koch Refining Company	6/15/1998 12:00:00 AM	68476-3 2/12/2020

3M Creme Cleanser Ready-To-Use  
 Drummond Crack Back Asphalt Crack Repair/Sealing Compound  
 Conquer  
 CHLORINE (LIQUEFIED GAS UNDER PRESSURE)  
 MOBIL RARUS 427  
 Comet Deodorizing Cleanser with Chlorinol  
 Coil-Brite  
 Thawrox Treated Salt Liquid Additive  
 PULSAR DRY CHLORINATOR GRANULAR  
 Foremost 1817 Citri-Kote  
 CENLUBE SUB-ZERO RO-AW  
 3M BATHROOM DISINFECTANT CLEANER Ready-to-Use (Product No. 4, Twist 'n Fill System and Product No. 4P, 3M Portable Dispensing System)  
 Brilliance Car and Truck Wash  
 Alive Liquid Bacteria  
 Ajax Cleanser with Bleach  
 Nitrogen balance - Acetylene 0.1ppm - 0.4%, Ethylene 0.1ppm - 3.2%  
 Oxygen, compressed  
 Nat Banana Flavor WONF

3M - Commercial Solutions Division	5/22/2018 12:00:00 AM	2/11/2020
Drummond, A Lawson Brand	7/25/2018 12:00:00 AM	2/11/2020
Ultra-Chem Inc.	5/22/2015 12:00:00 AM	2/11/2020
Occidental Chemical Corporation	11/4/2019 12:00:00 AM	7782-50 2/10/2020
MOBIL OIL CORPORATION	3/29/1994 12:00:00 AM	64742-5 2/7/2020
Procter & Gamble Professional	5/14/2018 12:00:00 AM	2/7/2020
Ultra-Chem Inc.	5/22/2015 12:00:00 AM	2/6/2020
North American Salt Co.	4/1/2014 12:00:00 AM	2/6/2020
Olin Corporation	8/1/1994 12:00:00 AM	2/6/2020
DELTA FOREMOST CHEMICAL CORPORATION	10/10/2014 12:00:00 AM	2/6/2020
CENEX, Inc.	12/1/1996 12:00:00 AM	2/6/2020
3M - Building & Commercial Services Division	5/17/2013 12:00:00 AM	2/5/2020
NORTHLAND CHEMICAL CORPORATION	5/20/2015 12:00:00 AM	2/5/2020
NORTHLAND CHEMICAL CORPORATION	5/1/2012 12:00:00 AM	2/5/2020
Colgate-Palmolive Company	8/2/2007 12:00:00 AM	2/5/2020
Praxair, Inc.	1/7/2020 12:00:00 AM	7727-37 2/5/2020
Praxair, Inc.	10/21/2016 12:00:00 AM	7782-44 2/5/2020
Givaudan Flavors Corporation	12/9/2019 12:00:00 AM	2/4/2020

## APPENDIX C

### Industrial sources of non-ionizing radiation\*

Sources	Uses	Comments
Broadcast	AM Radio FM Radio  VHF TV UHF TV	535-1605 kHz. 88-108 MHz  54-72, 76-88, 174-216 MHz 470-890 MHz
Communications	Fixed systems; troposphere scatter; satellite communication; microwave point-to-point (relay); high-frequency radio.  Mobile systems; CB radios; walkie-talkies	0.8-15 GHz; generally well controlled  27-800 MHz; may produce high field strengths near antennae
Induction heaters	Deep hardening; forging; welding; soft soldering; brazing; annealing; tempering metals and semiconductors; heat and draw optical fibers; epitaxial growth; plasma torching	250-500 kHz and ELF; may produce high E and/or H fields
Electronic Equipment	Switching regulator in copying machines, microcomputers, etc.	Usually shielded.
Electronic security systems	Intrusion alarms; theft detection; speed sensors; distance monitor; motion detection	Usually microwave frequencies
Microwave heaters (including microwave ovens)	Drying wood, paper, film, inks; thawing, cooking, baking, dehydrating, pasteurizing, and sterilizing foodstuffs; curing plastics; solvent desorption	915 and 2450 MHz
Radar	Acquisition and tracking; air and auto traffic control; marine uses; surveillance	1-15 GHz; usually PW
Welding	Production of pipe, tube, and beam; spot welding	RF-stabilized; 0.4-100 MHz with harmonics

\* Not all sources shown in this table are in the electromagnetic frequencies covered by ERTK.



## APPENDIX D

### Stress evaluation—heat

Heat stress may occur year-round in areas with heat-producing equipment such as in foundries, kitchens, or laundries. In Minnesota, high temperatures and humidity are common during the summer with daily temperatures routinely varying up to 30 degrees. This variation does not always allow people to become acclimatized and stay acclimatized, thereby increasing the risk of heat stress.

Heat stress results from a combination of internal heat production from doing work and external heat exposure from the environment. Both aspects need to be addressed properly to control heat stress.

Two commonly used instruments to obtain heat stress measurements are the heat stress monitor and a sling psychrometer. The heat stress monitor measures several temperatures simultaneously and accounts for radiant heat and air movement. The sling psychrometer is a much cheaper and simpler device but does not take into account radiant heat, and air movement must be determined separately.

The measurements obtained from either of these instruments are converted to one value, the wet bulb globe temperature (WBGT), for determining compliance with Minnesota Rules. WBGT is an index of heat stress indicating relative comfort. It considers temperature, humidity, and air movement. The calculated value can be then compared to those found in Minnesota Rules 5205.0110, subpart 2a. (see this Appendix).

Minnesota Rules 5205.0110, subpart 2a, is the Minnesota standard for heat exposure. The standard is based on wet bulb globe temperature (WBGT) and level of work activity. Typically, one will determine the WBGT by using a heat stress monitor, or by using a sling psychrometer to obtain the effective temperature, then converting the effective temperature to WBGT. If the heat stress limit is approached or exceeded, Employee Right to Know requirements specified in Minnesota Rules 5206.0700, subparts 1 and 3, "Training Program for Harmful Physical Agents," and Minnesota Rules 5206.110, "Labeling harmful Physical Agents; Label Content," also apply.

## APPENDIX E

### Sources of information

This program manual was prepared using information provided by the following sources:

Minnesota Rules and Statutes  
5206.0100 – 5206.2000  
182.

Federal Regulations  
29 CFR 1910.1200  
29 CFR 1910.95 – 1910.97  
29 CFR 1910.1030

American Industrial Hygiene Association

American Conference of Governmental Industrial Hygienists (ACGIH)

National Institute for Occupational Safety and Health (NIOSH)

National Toxicology Program (NTP)

Minnesota Department of Health – Environmental Health Division

Centers for Disease Control and Prevention

Occupational Safety and Health Administration (OSHA)

## GLOSSARY

**acidosis** – a condition of decreased alkalinity of the blood.

**ACGIH** – American Conference of Governmental Industrial Hygienists, Inc.

**action level** – the exposure level that triggers some but not all requirements in certain OSHA standards.

**acute toxicity** – the adverse effects resulting from a single dose of or exposure to a substance.

**alkali** – any compound having highly basic properties.

**anesthesia** – loss of sensation or feeling.

**asphyxia** – lack of oxygen thus interference with oxygenation of the blood.

**asphyxiant** – a vapor or gas that can cause unconsciousness or death by suffocation.

**boiling point, BP** – the temperature at which the vapor pressure of a liquid is equal to the surrounding atmospheric pressure.

**BZ** – breathing zone

**carcinogen** – a chemical that has been demonstrated to cause cancer in humans.

**CAS number** (chemical abstract service number) – an assigned number used to identify a material; the numbers have no chemical significance.

**ceiling value, CV** – the concentration that should not be exceeded during any part of the working exposure.

**CFM** (cubic feet per minute) – the volume of airflow.

**chemical pneumonitis** – inflammation of the lungs due to chemical irritation.

**CNS** – central nervous system.

**CO** (carbon monoxide) – a colorless, odorless, highly poisonous gas, formed by the incomplete combustion of carbon or carbonaceous material, including gasoline. A chemical asphyxiant, it reduces the blood's ability to carry oxygen.

**CO<sub>2</sub>** (carbon dioxide) – a colorless, odorless, incombustible gas formed during respiration, combustion, and organic decomposition and used in food refrigeration, carbonated beverages, inert atmospheres, fire extinguishers, and aerosols. High concentrations can create hazardous oxygen-deficient environments that can cause asphyxiation.

**combustible** – OSHA defines combustible liquid as any liquid having a flash point at or above 100F (38C), but below 200F (93.3).

**conjunctivitis** – inflammation of the conjunctiva, the delicate membrane that lines the eyelids.

**corrosive** – a chemical that causes visible destruction of or irreversible alterations in living tissue.

**cutaneous** – about the skin.

**dermal** – used on or applied to the skin.

**dermatitis** – inflammation of the skin.

**dyspnea** – a sense of difficulty in breathing; shortness of breath.

**edema** – an abnormal accumulation of clear, watery fluid in the tissues.

**evaporation rate** – the rate at which a particular material will vaporize from the liquid or solid state to the gas state.

**f/cc** – fibers per cubic centimeter of air.

**flammable** – describes any solid, liquid, or gas that will ignite easily and burn rapidly. Has a flash point below 100F (38C).

**flash point** – the lowest temperature at which a flammable liquid gives off sufficient vapors to form an ignitable mixture.

**FPM** (feet per minute) – velocity of airflow.

**grounding** – a safety practice to conduct an electrical charge to the ground.

**hazardous material** – a substance or mixture of substances having properties capable of producing adverse health or safety effects.

**hematuria** – the presence of blood in the urine.

**HEPA** (high-efficiency particulate air purifying) – most efficient mechanical filter commonly available.

**IARC** – International Agency for Research on Cancer.

**IDLH** – immediately dangerous to life and health.

**jaundice** – yellowish discoloration of tissues.

**LC 50** – the lethal concentration of a material in air that based on laboratory tests is expected to kill 50 percent of a group of test animals.

**LD 50** – the lowest published lethal dose that will kill 50 percent of a group of test animals.

**LEL** (lower explosive limit) – refers to the lowest concentration of gas or vapor that will burn or explode if an ignition source is present.

**LFM or lfm** (linear feet per minute) – velocity of airflow.

**mg/m<sup>3</sup>** – milligrams of material per cubic meter of air.

**MSDS** – material safety data sheet

**mutagen** – a chemical or physical agent that induces genetic mutations.

**narcosis** – stupor or unconsciousness produced by a narcotic drug or chemical.

**NFPA** – National Fire Protection Association

**NIOSH** – National Institute for Occupational Safety and Health

**NTP** – National Toxicology Program

**odor threshold** – the lowest concentration of a material’s vapor in air that can be detected by smell.

**particulate** – small, separate pieces of an airborne material.

**peak** – maximum instantaneous allowable exposure for hazardous substances.

**PEL** (permissible exposure limit) – an exposure limit established by OSHA.

**pH** – the value that represents the acidity or alkalinity of an aqueous solution [pH 7 = neutral; pH 0 = strong acid; pH 14 = strong alkaline.]

**ppb** (parts per billion) – parts of material per billion parts of air.

**ppm** (parts per million) – parts of material per million parts of air.

**psychotropic** – acting on the mind.

**pulmonary edema** – fluid in the lungs.

**pyrophoric** – a material that will ignite spontaneously in air below 130F (54C).

**Reactivity** – a description of the tendency of a substance to undergo chemical reaction either by itself or with other materials with the release of energy.

**Reproduction health hazard** – any agent that harms the adult male or female reproductive system of the developing fetus or child.

**SDS** – Safety Data Sheet

**Sensitization** – an immune-response reaction state in which further exposure elicits an immune or allergic response.

**silicosis** – a condition of massive fibrosis of the lungs causing shortness of breath.

**Skin-notation** is used to indicate possible exposure to a chemical by absorption through the skin.

**specific gravity** –

**STEL** – short-term exposure limit.

**subcutaneous** – beneath the skin.

**target organ effects** – chemically caused effects upon specifically listed organs and systems.

**teratogen** – an agent or substance that causes physical defects in developing embryos.

**TLV** (threshold limit value) – a term established by ACGIH to express the airborne concentration of a material to which nearly all workers can be exposed day after day without adverse effects.

**TWA** (time-weighted average) – the expression for average exposure which accounts for fluctuating levels during a given time period.

**UEL** (upper explosive limit) – the highest concentration of a material in air that will produce an explosion.

**unstable** – tending toward decomposition or other unwanted chemical change during normal handling or storage.

**vapor density** – the weight of a vapor or gas compared to an equal volume of air.

**vapor pressure** –

**vertigo** – a feeling of revolving in space; dizziness, giddiness.

**viscosity** – measurement of the flow properties of a material.

**water reactive** – a chemical that releases a hazardous gas, often violently, upon contact with water.