



**NORTH CAROLINA DEPARTMENT OF LABOR**

**No. 51-3**

**OSH DIVISION**

**Date: 12/2017**

**OSHNC INDUSTRIAL DATA REPORT**

**Pages: 3**

**Industry: Wholesale Trade**

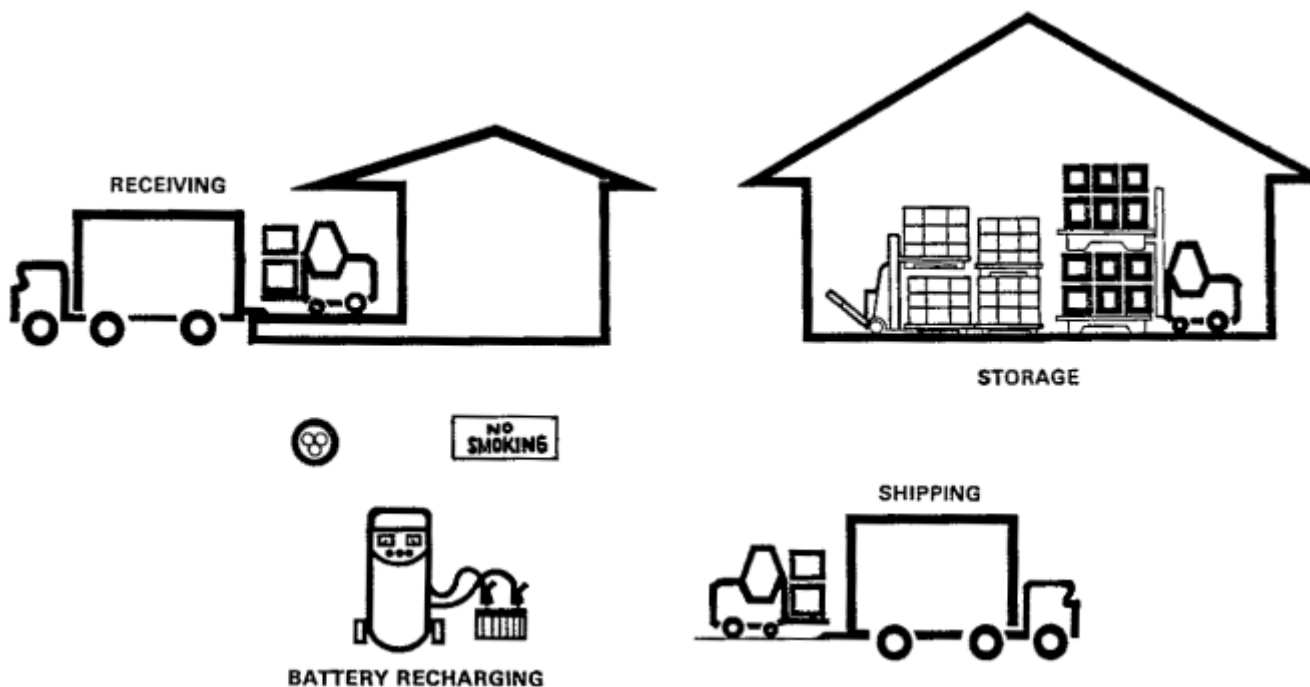
**Sub-Group: Groceries and Related Products**


**SIC: 5141, 5142, 5143, 5414, 5145, 5416, 5417, 5418 and 5149**

**NAICS: 424410, 424420, 424430, 424440, 424450, 424460, 424470, 424480 and 424490**

**PROCESS DESCRIPTION:** This is a service consisting of receiving, storing and wholesale distributing of groceries and related products. A wide variety of materials (groceries) is received by rail or truck in packages of various sizes and weights which are unloaded and stacked in the warehouse. Various pieces of material-handling equipment are used such as stackers, hand trucks and fork trucks. Outgoing merchandise is usually placed either in company-owned trucks or in customer-owned vehicles for delivery to retail stores.

**PROCESS FLOW:**



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### Hazards Analysis


Major Hazards			Other Hazards		
Location	Item	Hazard	Location	Item	Hazard
Racks in warehouse and aisle	Stored goods	Falling objects, striking employees	Docks	Mechanical handling equipment, chocks and dockboards	Falling objects, crushing overturned equipment
	Damaged racks			Aisles, clearance and markings, housekeeping	Fire, tripping and falling
Shipping	Powered Industrial trucks	Accidents, carbon monoxide	Battery charging areas	Acids	Burns, toxic fumes
Throughout	Exits	Fires and fumes and/or vapors	Refrigerated areas	Refrigerant	Eye, respiratory irritation, release

### Key OSHNC Standards

Reference	29 CFR 1910 — General Industry Standards
Subpart D	Walking and working surfaces
Subpart E	Means of egress
Subpart I	Personal protective equipment
1910.22	General Requirements – Paragraph (b), Load Rating Capacity
1910.110	Storage and Handling of Liquefied Petroleum Gases
1910.119	Process safety management
1910.120	Hazardous waste operations and emergency response
1910.141	Sanitation – Paragraph (a)(5), Vermin Control
1910.147	Lockout/Tagout
1910.151	Medical services and first aid – Paragraph (c), Eyewash and emergency showers
1910.157	Portable Fire Extinguishers
1910.176	Handling materials
1910.178	Powered industrial trucks
1910.212	Machine Guarding
1910.303	Electrical, General Requirements
1910.1000	Air contaminants
1910.1026	Hexavalent Chromium
1910.1200	Hazard Communication
NCGS 95-129(1)	General Duty Clause (Ergonomic issues)

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<b>Inspection Analysis</b>		
<p>The inspection should begin in the receiving area, checking for dockboards, wheel chocks on rail cars and highway trucks, and proceed to the warehouse area where powered industrial trucks, such as forklifts, stackers and other equipment must be observed. Also check on walking and working surfaces, and proceed in warehouse checking material stacking, exits, and personal protective equipment. Review guarding of conveyors if in use; particularly motors, drive shafts and the height of belts. Examine battery storage area and if fueled equipment is used, check carbon monoxide levels. Also note housekeeping and adequacy of lighting of warehouse. Inspect the shipping dock for items found in receiving. Determine if mechanical powered truck operators are trained and authorized. If refrigerated storage, check for type and quantity of refrigerant to determine applicability of Process Safety Management and emergency response operations. If stainless steel is used in the facility and maintenance on stainless steel is performed in-house, check for exposure to hexavalent chromium</p>		
<p><b>Other Pertinent Comments:</b> The keys to a safe warehouse are:</p> <ol style="list-style-type: none"> <li>1. Good housekeeping and adequate aisle space.</li> <li>2. Check to ensure fire exits are not blocked by pallets.</li> <li>3. Adequate lighting.</li> <li>4. Well-trained material handling equipment operators and well-maintained material handling equipment.</li> <li>5. Good scheduling to avoid over crowding facilities.</li> <li>6. Personal protective equipment such as safety shoes, gloves, hard hats properly used.</li> <li>7. Prohibition of smoking except in designated area.</li> <li>8. Evaluate ergonomic factors throughout the workplace, especially where lifting is required.</li> </ol>		