SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION

| Product Identifier Product Code Number Trade Name/Synonyms Material Use Uses Advised Against Manufacturer's name and addre | ARDEX WA[™] Part B (Hardener) 70046450 ARDEX WA Hardener High-Performance, 100% Solids Epoxy Grout and Adhesive. Use only as recommended in the product's Technical Data Sheet. ss: Supplier's name and address Same as manufacturer. |
|---|---|
| ARDEX L.P. 400 Ardex Park Dr. | |
| Aliquippa, PA 15001 USA Information Telephone No. Website Address 24 Hr Emergency Telephone # | 1(888)-512-7339 or 1(724) 203-5000 <u>http://www.ardexamericas.com</u> CHEM-TEL: 1-800-255-3924 OR 1-813-248-0585 (call collect) |
| S | ECTION 2 – HAZARDS IDENTIFICATION |
| GHS Classification per 29 CFR 1 | 910.1200 (OSHA HCS 2012) and HPR (WHMIS 2015) Skin Corrosion/Irritation, 1 Eye Corrosion/Irritation, 1 Skin Sensitization, 1 |
| GHS Pictograms | : |

| Signal Word : | Danger |
|-----------------------------------|--|
| Hazard Statements : | Causes severe skin burns and eye damage. |
| | May cause an allergic skin reaction. |
| Precautionary Statements | Do not breathe dust/vapors. Wear protective gloves/protective clothing/eye protection. Wash hands and exposed skin thoroughly after handling. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not subject to grinding. Store locked up. Dispose of contents / container in accordance with federal, state, and local laws. Do not allow product to enter drains. |
| | Under normal conditions of use, this product will not generate airborne dust. Avoid operations such as grinding, sanding or sawing that produce airborne dust. |
| Hazards Not Otherwise Specified : | None. |
| % Unknown acute toxicity : | 90% by weight of this product consists of ingredients with unknown acute inhalation toxicity. 60% by weight of this product consists of ingredients with unknown acute oral and dermal toxicities. |

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredients | CAS # | % (by weight) | | | | |
|---|-------------------|---------------|--|--|--|--|
| | | | | | | |
| Crystalline silica, quartz | 14808-60-7 | 60 – 100 | | | | |
| Triethylenetetramine | 112-24-3 | 10 – 30 | | | | |
| Polyamide resin | 68410-23-1 | 1 – 5 | | | | |
| Hydrophobic silica | 67762-90-7 | 1 – 5 | | | | |
| Aminoalkoxysilane | 1760-24-3 | 1 – 5 | | | | |
| Isophoronediamine | 2855-13-2 | 1 – 5 | | | | |
| This product contains one or more of the fo | llowing pigments: | | | | | |
| Titanium dioxide, TiO ₂ | 13463-67-7 | < 20 | | | | |
| Chromium (III) oxide, Cr ₂ O ₃ | 1308-38-9 | < 0.5 | | | | |
| Iron (III) oxide, Fe ₂ O ₃ | 1309-37-1 | < 5 | | | | |
| Iron (II-III) oxide, Fe ₃ O ₄ | 1317-61-9 | < 1.0 | | | | |
| Carbon Black | 1333-86-4 | < 5 | | | | |
| Yellow Iron (III) oxide, Fe ₂ O ₃ •H ₂ O | 51274-00-1 | < 5 | | | | |
| Sodium aluminosulphosilicate | 57455-37-5 | < 1.0 | | | | |
| Barium sulfate, BaSO ₄ | 7727-43-7 | < 20 | | | | |
| Exact percentages of the ingredients have been withheld by the manufacturer as trade secrets. | | | | | | |

Exact percentages of the ingredients have been withheld

SECTION 4 – FIRST AID MEASURES

| General | : IF exposed or concerned: Get medical advice/attention. | | | | | |
|---|---|--|--|--|--|--|
| Inhalation | Remove the person to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. | | | | | |
| Skin contact | : Remove/Take off immediately all contaminated clothing. Rinse SKIN with soap and water/shower. IF SKIN irritation or rash occurs, get medical advice/attention. | | | | | |
| Eye contact | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention. | | | | | |
| Ingestion | Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell. | | | | | |
| Notes for Physician | : Treat symptomatically. | | | | | |
| Signs and symptoms of sh | ort-term (acute) exposure | | | | | |
| Inhalation | : Symptoms may include coughing or irritation. | | | | | |
| Skin | : Direct skin contact may cause skin burns. | | | | | |
| Eyes | Direct contact to the eyes can cause chemical burns, corneal damage, and possibly blindness. Exposure to low vapor concentrations may cause swelling (edema) of the eyes, resulting in blurring of vision with a bluish haze and/or appearance of halos around lights. | | | | | |
| Ingestion | May cause severe irritation and corrosive damage in the mouth, throat and stomach. Symptoms may include abdominal pain, vomiting, burns, and bleeding. | | | | | |
| Effects of long-term (chron | ic) exposure | | | | | |
| | Prolonged inhalation may cause adverse lung effects with symptoms including coughing and shortness of breath. Some individuals may experience a sensitization reaction of the skin after an initial exposure. Subsequent exposures may cause a hypersensitive skin reaction (rash, swelling). | | | | | |
| Indication of need for immediate medical attention or special treatment | | | | | | |
| | : Difficulty breathing persists after removing the person to fresh air. | | | | | |
| | Any exposure to the eye which causes irritation. | | | | | |
| | Chemical burns to the skin. Blue color of the skin (cyanotic) after exposure. | | | | | |
| | Ingestion. | | | | | |
| | | | | | | |

SECTION 5 – FIRE FIGHTING MEASURES

| Suitable extinguishing media | : | Water fog/mist, dry chemical, carbon dioxide, foam. Fight larger fires with water spray or alcohol resistant foam. |
|--------------------------------|---|--|
| Unsuitable extinguishing media | : | High pressure water jet may spread the fire. |

| Hazardous combustion products : | Carbon monoxide carbon dioxide, nitrogen oxides and other vapors and toxic gases. | | | | | |
|--|--|--|--|--|--|--|
| Fire hazards/conditions of flammabil | lity | | | | | |
| : | Not classified for flammability per GHS. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. | | | | | |
| Special fire-fighting procedures/equipment | | | | | | |
| : | Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water fog may be useful in cooling equipment exposed to heat and flame. After fires have been extinguished, carefully clean all equipment and surfaces exposed to fumes. | | | | | |
| Environmental Precautions | Do not allow product to enter drains or contaminate ground water systems. | | | | | |

SECTION 6 – ACCIDENTAL RELEASE MEASURES

| Personal precautions | : | Corrosive! See Section 7 for safe handling procedures. Wear chemically resistant personal protective equipment during cleanup. Restrict access to area until completion of clean-up. All persons dealing with clean-up must be properly trained and wear the appropriate chemically protective equipment. Refer to Section 8 for additional information on acceptable personal protective equipment. |
|-----------------------------------|---|---|
| Environmental precautions | : | Do not allow product to enter waterways. Do not allow material to contaminate ground water system. |
| Spill response / clean-up | : | Ventilate area of release. Stop spill or leak at source if safely possible. Contain product with inert absorbent material, preventing it from entering sewer lines or waterways. Gather up spilled material and place in suitable container for later disposal. (See Section 13.) Residual material can be cleaned up with warm, soapy water. Notify the appropriate authorities as required. |
| Prohibited materials | : | Avoid strong oxidizing agents and isocyanates. Do not allow spilled material to mix with epoxy resins. Chemical reaction with epoxy resins causes polymerization and release of heat energy. |
| Special spill response procedures | : | This product does not contain any chemicals that must be reported to the EPA in the event of a spill or release. For advice on chemical spills with this product, call the emergency number listed in Section 1. |
| | | US CERCLA Reportable quantity (RQ): None Reported. |

SECTION 7 – HANDLING AND STORAGE

| Safe handling procedures | : Corrosive! Do NOT get into eyes, on skin or on clothing. Do NOT breathe vapor. Observe good hygiene standards. Wash thoroughly after handling. Sanding and grinding dusts may be harmful if inhaled. When removing this product from existing installations (i.e. during a renovation), wear safety goggles and respiratory protection from dust due to blasting, chipping, or mechanically pulverizing. Wear protective clothing to prevent skin contact. Promptly remove any clothing that becomes contaminated. Clean contaminated clothing before reuse. |
|-----------------------------|--|
| Storage requirements | Store locked up. Store away from heat and open flame. Avoid storing in direct sunlight. Store in original container. Keep tightly closed when not in use. Do not reuse empty container without commercial cleaning or reconditioning. |
| Incompatible materials | : See Section 10. |
| Special packaging materials | : Always keep in containers made of the same materials as the supply container. |

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Permissible exposure levels

: No exposure limit has been established for the product itself. The following are the exposure limits for the product components.

| Ingredients | CAS # | ACGIH TLV | | OSHA PEL | |
|----------------------------|------------|----------------------------|------|--|------|
| | | TLV | STEL | PEL | STEL |
| Crystalline silica, quartz | 14808-60-7 | 0.025 mg/m ³ | N/Av | 0.05 mg/m ³ (respirable) | N/Av |

| | | (respirable fraction) | | (final rule limit) | |
|---|---------------------|--|------|--|------|
| | | | | | |
| Triethylenetetramine | 112-24-3 | 1 ppm (skin) | N/Av | N/Av | N/Av |
| Polvamide resin | 68410-23-1 | N/Av | N/Av | N/Av | N/Av |
| | | 10 mg/m ³ (total dust); 3 mg/m ³ | | 6 mg/m ³ | |
| Hydrophobic silica | 67762-90-7 | (respirable) | N/Av | NIOSH | N/Av |
| Aminoalkoxysilane | 1760-24-3 | N/Av | N/Av | N/Av | N/Av |
| Isophoronediamine | 2855-13-2 | N/Av | N/Av | N/Av | N/Av |
| This product contains one or more of | the following pigme | nts: | | | |
| Titanium dioxide, TiO2 | 13463-67-7 | 10 mg/m ³ | N/Av | 15 mg/m ³ | N/Av |
| Chromium (III) oxide, Cr ₂ O ₃ | 1308-38-9 | 0.5 mg/m ³ | N/Av | 0.5 mg/m ³ | N/Av |
| Iron (III) oxide, Fe ₂ O ₃ | 1309-37-1 | 5 mg/m ³ (respirable fraction) | N/Av | 10 mg/m ³ (fume) | N/Av |
| Iron (II-III) oxide, Fe ₃ O ₄ | 1317-61-9 | N/Av | N/Av | N/Av | N/Av |
| Carbon Black | 1333-86-4 | 3.0 mg/m ³ (inhalable) | N/Av | 3.5 mg/m ³ | N/Av |
| Yellow Iron (III) oxide, Fe ₂ O ₃ •H ₂ O | 51274-00-1 | 10 mg/m ³ (total) 3 mg/m ³ (respirable) | N/Av | 15 mg/m ³ (total) 5 mg/m ³ (respirable) | N/Av |
| Sodium aluminosulphosilicate | 57455-37-5 | 15 mg/m ³ (total) 5 mg/m ³ | N/Av | N/Av | N/Av |
| Barium sulfate, BaSO ₄ | 7727-43-7 | (respirable) 10 mg/m ³ (total) | N/Av | 15 mg/m ³ (total) 5 mg/m ³ (respirable) | N/Av |

Ventilation and engineering measures:Use general or local exhaust ventilation to maintain air concentrations below
recommended exposure limits. Ventilation should effectively remove and prevent
buildup of any vapor generated from the handling of this product.Personal Protection Equipment

| • • | |
|--------------------------------|--|
| Eye / face protection | : Safety glasses must be worn when using this product. |
| Hand protection | : Wear impervious gloves. Materials such as nitrile rubber or Viton (fluorocarbon rubber) are recommended. Refer to glove manufacturer for breakthrough time for the chemicals in this product. (See Section 3.) |
| Body protection | : Wear chemical resistant protective clothing. Where extensive exposure to product is possible, use resistant coveralls, apron, and boots to prevent contact. |
| Respiratory protection | : If work process generates excessive quantities of vapor or dust, or exposures in excess of any PEL, wear an appropriate organic vapor respirator. |
| Other protective equipment | : An eyewash station and safety shower should be made available in the immediate working area. |
| General hygiene considerations | : Avoid contact with eyes, skin and clothing. Do not breathe vapors/dust. Do not eat, drink or smoke when using this product. Clean all equipment and clothing at end of each work shift. |

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

| Physical state | : | Liquid | Appearance | : | Color varies with pigment |
|--|---|------------------|---------------------------------------|---|---------------------------|
| Odor | : | Amine | Odor threshold | : | N/Av |
| рН | : | 11 - 13 | Specific gravity | : | 2.1 |
| Boiling point | : | N/Av | Coefficient of water/oil distribution | : | N/Av |
| Melting/Freezing point | : | N/Av | Solubility in water | : | Not soluble |
| Vapor pressure (mm Hg @ 20°C / 68°F) | : | N/Av | | | |
| Evaporation rate (n-Butyl acetate = 1) | : | N/Av | Viscosity | | : N/Av |
| Vapor density (Air = 1) | : | N/Av | Volatiles (% by weight) | | : N/Av |
| Volatile organic compounds (VOCs) | : | 2.67 g/L A+B, AS | TM D2369 | | |

Flammability classification (OSHA 29 CFR 1910.1200)

| | : | Non-flammable | | | | |
|---|---|----------------------|----------------------------------|---|---------------|--|
| Flash point | : | >100°C (>212°F) | Lower flammable limit (% by vol) | : | N/Av | |
| Flash point method | : | Setaflash closed cup | Upper flammable limit (% by vol) | : | N/Av | |
| Auto-ignition temperature | : | N/Av | Oxidizing properties | : | None | |
| Flame projection length | : | Not available | Flashback observed | : | Not available | |
| Explosion data: Sensitivity to mechanical impact / static discharge | | | | | | |

: Not expected to be sensitive to mechanical impact or static.

SECTION 10 – REACTIVITY AND STABILITY INFORMATION

| Reactivity | : | Product is formulated to react with epoxides, forming a polymer. This reaction evolves heat. | | | | | |
|--|---|--|--|--|--|--|--|
| Stability | : | Stable under the recommended storage and handling conditions prescribed. | | | | | |
| Hazardous polymerization | : | Hazardous auto-polymerization does not occur. | | | | | |
| Conditions to avoid | : | High temperatures. | | | | | |
| Materials to avoid and incompatibility | , | | | | | | |
| | : | Oxidizing agents, isocyanates. | | | | | |
| Hazardous decomposition products | S | | | | | | |

: None known, refer to hazardous combustion products in Section 5.

SECTION 11 – TOXICOLOGICAL INFORMATION

| | Inhalation: YES | Skin Absorption: | NO Skin and Eye | s: YES Ingestion: YES |
|---|-------------------|-----------------------|-------------------------------|-----------------------|
| Symptoms of exposure : S | See Section 4. | | | |
| Calculated Acute Toxicity Estimates for t | he Product | | | |
| Inhalation : : | > 40 mg/L | | | |
| Oral : : | > 6,000 mg/kg | | | |
| Dermal | > 4,000 mg/kg | | | |
| | , 00 | vidual ingredient act | ute toxicity data. | |
| | | LC50 (4 hr) | LD50 | |
| Ingredients | CAS No. | Inhalation, rat, | Oral, rat | Dermal, rabbit |
| | | mg/L | mg/kg | mg/kg |
| Crystalline silica, quartz | 14808-60-7 | N/Av | N/Av | N/Av |
| Triethylenetetramine | 112-24-3 | N/Av | 2500 | 805 |
| Polyamide resin | 68410-23-1 | N/Av | > 2000 | > 2000 |
| Hydrophobic silica | 67762-90-7 | N/Av | > 1000 (Max dose in study) | > 2000 |
| Aminoalkoxysilane | 1760-24-3 | 1.49 - 2.44 (1 hr) | 2413 | >2009 (rat) |
| Isophoronediamine | 2855-13-2 | > 5.01 | 1030 | > 2000 |
| Depending on the color, the product ma | ay contain one or | more of the followin | g pigments: | |
| Titanium dioxide, TiO ₂ | 13463-67-7 | > 6.82 | > 24,000 | > 10,000 |
| Chromium (III) oxide, Cr ₂ O ₃ | 1308-38-9 | > 5.41 | > 5,000 | N/Av |
| Iron (III) oxide, Fe ₂ O ₃ | 1309-37-1 | N/Av | > 5,000 | 5,500 (rat) |
| Iron (II-III) oxide, Fe ₃ O ₄ | 1317-61-9 | N/Av | > 5,000 | N/Av |
| Carbon Black | 1333-86-4 | 6.75 | > 15,400 | > 3000 |
| Yellow Iron (III) oxide, Fe ₂ O ₃ •H ₂ O | 51274-00-1 | N/Av | > 5,000 | N/Av |
| Sodium aluminosulphosilicate | 57455-37-5 | N/Av | > 10,000 | N/Av |
| Barium sulfate, BaSO ₄ | 7727-43-7 | N/Av | > 15,000 | N/Av |

Repeated Dose Effects

: None known.

Carcinogenic status

: This product contains Crystalline silica (quartz), which is listed as a known human carcinogen (by inhalation) by IARC (Group 1) and NTP. Some colors contain Titanium dioxide and/or Carbon black. Titanium dioxide is suspected to be

| | carcinogenic by inhalation (IARC 2B). Carbon black is suspected to be carcinogenic by inhalation (IARC 2B) and classified as a carcinogen by NPT. Under normal conditions of use, this product will not produce airborne dust. Avoid operations such as grinding, sanding or sawing which will produce airborne dust. See Section 7 for more information. |
|---------------------------|---|
| Reproductive Toxicity | : This product contains trace amounts of methanol (< 0.1%). |
| Teratogenicity | : None known. |
| Mutagenicity | : None known. |
| Epidemiology | : Not available. |
| Target Organ Effects | : None known. |
| Sensitization to material | : Contains components which are known to cause skin sensitization reactions. |
| Synergistic materials | : Not available. |
| Irritancy/Corrosivity | : Corrosive to skin and eyes. |
| Other important hazards | : See hazards listed in Section 2. |
| | |

SECTION 12 – ECOLOGICAL INFORMATION **Environmental effects** : The product should not be allowed to enter drains or water courses or be deposited where it can affect ground or surface waters. Ecotoxicological : No data is available on the product itself. Ecotoxicity : No data available. Biodegradability : No data available. Bioaccumulative potential : No data available. Mobility in soil : No data available. PBT and vPvB assessment : No data available.

SECTION 13 – DISPOSAL CONSIDERATION

: No data available.

Handling for disposal Methods of disposal

Other adverse effects

- : Handle waste according to recommendations in Section 7.
- : Dispose in accordance with all applicable federal, state, provincial and local regulations. Contact your local, state, provincial or federal environmental agency for specific rules.
- : For disposal of unused or waste material, check with local, state and federal environmental agencies.

SECTION 14 – TRANSPORTATION INFORMATION

| Regulatory Information | UN Number | Shipping Name | Class | Packing Group | Label | | |
|---|---|--|-------|------------------|----------------|--|--|
| TDG | UN 2735 | Amines, liquid, corrosive, n.o.s. (Contains: Triethylenetetramine, Isophoronediamine) | 8 | II | CORROSIVE 8 | | |
| TDG Additional Information | This product ships as a Limited Quantity per TDGR 1.17. | | | | | | |
| 49 CFR/DOT | UN 2735 | Amines, liquid, corrosive, n.o.s. (Contains: Triethylenetetramine, Isophoronediamine) | 8 | II | CORROSIVE 8 | | |
| 49 CFR/DOT Additional Information | This product | ships as a Limited Quantity per 49 CFR 173.154 (b |). | | | | |

SECTION 15 – REGULATORY INFORMATION

RCRA

Canadian Information:

This product has been classified according to the hazard criteria of the Hazardous Products Regulations (HPR). This SDS contains all information required by the HPR.

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on either the Domestic Substances List (DSL) or the Non- Domestic Substances List (NDSL).

US Federal Information:

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

CERCLA Reportable Quantity (RQ) (40 CFR 117.302): None reported.

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes:

Immediate (Acute) Health Hazard

Chronic Health Hazard.

Under SARA Sections 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.

SARA TITLE III: Sec. 313, Toxic Chemicals Notification, 40 CFR 372: This product is not subject to SARA notification requirements, since it does not contain any Toxic Chemical constituents above *de minimus* concentrations.

U.S. State Right To Know Laws

California Proposition 65: See product label for information regarding Proposition 65.

Other State Right to Know Laws:

| Component | CAS | CA | MA | MN | NJ | NY | PA | RI | |
|---|------------|-----|-----|-----|-----|----|-----|-----|--|
| Crystalline silica, quartz | 14808-60-7 | No | Yes | Yes | Yes | No | Yes | Yes | |
| Triethylenetetramine | 112-24-3 | No | Yes | No | Yes | No | Yes | No | |
| Isophoronediamine | 2855-13-2 | No | No | Yes | Yes | No | No | No | |
| Some colors may contain the following pigments: | | | | | | | | | |
| Titanium dioxide | 13463-67-7 | No | Yes | Yes | Yes | No | Yes | Yes | |
| Chromium (III) Oxide, Cr2O3 | 1308-38-9 | No | Yes | No | Yes | No | No | No | |
| Iron (III) Oxide, Fe2O3 | 1309-37-1 | Yes | Yes | No | Yes | No | Yes | Yes | |
| Carbon Black | 1333-86-4 | Yes | Yes | Yes | Yes | No | Yes | Yes | |
| Barium sulfate | 7727-43-7 | No | Yes | No | Yes | No | Yes | No | |

SECTION 16 – OTHER INFORMATION

HMIS Rating

: *- Chronic Hazard 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe Health: *2 Flammability 1 Physical Hazard 1 PPE: B Gloves, safety glasses

Legend

: ACGIH: American Conference of Governmental Industrial Hygienists CAS: Chemical Abstract Services CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980 CFR: Code of Federal Regulations

DOT: Department of Transportation

DSL: Domestic Substances List

EPA: Environmental Protection Agency

GHS: Globally Harmonized System

HPR: Hazardous Products Regulations

IARC: International Agency for Research on Cancer

Inh: Inhalation

N/Av: Not Available

N/Ap: Not Applicable

NIOSH: National Institute of Occupational Safety and Health NTP: National Toxicology Program OSHA: Occupational Safety and Health Administration PEL: Permissible exposure limit RCRA: Resource Conservation and Recovery Act SARA: Superfund Amendments and Reauthorization Act STEL: Short Term Exposure Limit TDG: Canadian Transportation of Dangerous Goods Act & Regulations TLV: Threshold Limit Values TSCA: Toxic Substance Control Act TWA: Time Weighted Average WHMIS: Workplace Hazardous Materials Identification System

Disclaimer of Liability

The Information presented herein is supplied as a guide to those who handle or use this product and has been prepared in good faith by technically knowledgeable personnel. It is not intended to be all-inclusive. The manner and conditions of use and handling may involve other and additional considerations. Safe work practices must be employed when working with any materials. It is important that the end user determines the adequacy of the safety procedures employed during the use of this product. No warranty of any kind is given or implied. ARDEX L.P. will not be liable for any damages, losses, injuries or consequential damages which may result from the use or reliance on any information contained herein.

Prepared By:

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End of Document