



The following Corporate Express product numbers are related to the attached msds:

1. PRODUCT AND COMPANY IDENTIFICATION**PRODUCT IDENTIFICATION**

Brand Name Fellowes Screen Cleaner
(non-alcoholic)
Chemical Name..... Mixture
Common Name Screen Cleaner
Formula..... Mixture
Molecular Weight N/A
Product Use Screen Cleaner
Product Identification Number..... N/A

MANUFACTURER

Fellowes (Manufacturing) Inc.
1789 Norwood Avenue
Itasca, IL 60143-1095

EMERGENCY TELEPHONE NUMBER

(630) 893-1600 or (800) 893-7661

2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	WEIGHT %
2-Butoxyethanol	111-76-2	1 - 5
Water	7732-18-5	Balance

See Section 15 of this MSDS for OSHA Regulatory Status.

3. HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW**

Clear, colorless liquid with a sweet odor.

CAUTION! May cause eye or skin irritation. May be harmful if inhaled or absorbed through skin.

May flash if vapors are ignited, but product will not burn.

POTENTIAL HEALTH EFFECTS**PRIMARY ROUTE(S) OF ENTRY**

Inhalation (breathing); skin absorption; eye contact.

SYMPTOMS OF EXPOSURE

- Inhalation:** Breathing high concentrations of 2-butoxyethanol may cause respiratory irritation and may cause central nervous system effects (headache, nausea, vomiting, or unconsciousness) and may cause damage to the liver, or kidney, or to the blood or lymph systems.
- Eye Contact:** Direct contact with 2-butoxyethanol or exposure to its vapors may cause irritation; redness, burning sensation.
- Skin Contact:** May cause irritation. 2-Butoxyethanol is readily absorbed through the skin and may cause liver, kidney, blood or lymph system damage, depending on the duration and level of exposure.
- Ingestion:** Headache, nausea, vomiting, dizziness, gastrointestinal upset.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Liver, kidney, blood disease and skin disorders.

REPORTED AS CARCINOGEN OR POTENTIAL CARCINOGEN

Not Applicable

OSHA

National Toxicology Program (NTP)

International Agency for Research on Cancer (IARC)

4. FIRST AID MEASURES

- Inhalation:** Remove from area to fresh air. Seek medical attention if respiratory irritation develops or if breathing becomes difficult.
- Eye contact:** Immediately rinse eyes with water. Remove any contact lenses, and continue flushing eyes with running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eyes and lids with water. Get immediate medical attention.
- Skin Contact:** Wash affected areas with plenty of water, and soap if available, for several minutes. Remove and clean contaminated clothing and shoes. Seek medical attention if irritation develops or persists.
- Ingestion:** Give 3-4 glasses of water, but **DO NOT** induce vomiting. If vomiting occurs, give fluids again. Get medical attention to determine whether vomiting or evacuation of stomach is necessary. Do not give anything by mouth to an unconscious or convulsing person.

NOTE TO PHYSICIAN

This product contains 2-butoxyethanol which can cause CNS effects; and can cause liver, kidney, or lymph system damage by inhalation or through skin absorption.

5. FIRE FIGHTING MEASURES

Flash Point and Method.....>60 °C (2-Butoxyethanol).

GENERAL HAZARD

May flash if vapors are ignited, but product will not burn.

EXTINGUISHING MEDIA

This product is not flammable. If involved in a fire, use media suitable for the material that is burning.

SPECIAL FIREFIGHTING INSTRUCTIONS

Move containers from area if it can be done without risk.

FIREFIGHTING EQUIPMENT

As in any fire, wear NIOSH approved, positive-pressure, self-contained breathing apparatus and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Wear appropriate protective equipment (See Section 8).

Absorb with sand or vermiculite; sweep up and place in a compatible container for later disposal. Residue can be washed with water.

7. HANDLING AND STORAGE

Wear appropriate protective equipment (See Section 8).

HANDLING

Avoid contact with eyes, skin, or clothing. Avoid breathing vapors or mist. Frequent or prolonged contact with the skin could cause defatting, leading to dryness and cracking. The use of an emollient cream is recommended after prolonged skin contact.

Use disposable cloths and discard when soiled. Do not put soiled cloths into pockets.

STORAGE

Store in a cool, dry place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

Use local exhaust or general dilution ventilation to maintain exposures below established permissible exposure levels.

PERSONAL PROTECTION

Respirator: For prolonged exposures, consult an industrial hygienist or other technically qualified person to determine whether respiratory protection is required for the specific work conditions.

Eye Protection: Wear safety glasses if there is a potential for splashing this product in the eyes.

Gloves: Wear rubber gloves. The use of an emollient cream is recommended after skin contact.

Clothing: Normal work clothing.

Other: Eye wash.

EXPOSURE CONTROLS

COMPONENT	OSHA PEL		ACGIH TLV	
	TWA	STEL	TWA	STEL
2-Butoxyethanol	50 ppm [skin]	N/E	20 ppm [skin]	N/E

9. PHYSICAL AND CHEMICAL PROPERTIES

State	Slightly opaque liquid	PH.....	NA
Color	Clear	Boiling Point.....	NA
Odor	Sweet	Specific Gravity @ 20 °C.....	0.99-1.00

10. STABILITY AND REACTIVITY

REACTIVITY

Stable.

INCOMPATIBILITIES

Strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition will produce CO, CO₂, and oxides of nitrogen.

CONDITIONS TO AVOID

None known.

11. TOXICOLOGICAL INFORMATION

For 2-Butoxyethanol

RTECS KJ8575000

Inhalation LC ₅₀ (rat).....	450 ppm/4 hr.
Inhalation LC ₅₀ (mouse).....	700 ppm/7 hr.
Inhalation TC _{Lo} (human).....	195 ppm/8 hr. (gastrointestinal effects) 100 ppm (Eye, smell, lungs, thorax, respiration effects)
Oral LD ₅₀ (rat).....	470 mg/kg
Oral LD ₅₀ (mouse).....	1,230 mg/kg
Oral LD ₅₀ (rabbit).....	300 mg/kg
Oral TD _{Lo} (woman).....	600 mg/kg
Dermal LD ₅₀ (rabbit).....	220 mg/kg
Dermal LD ₅₀ (guinea pig).....	230 mg/kg
Skin irritation (rabbit).....	Mild
Eye Irritation (rabbit).....	Severe in one study; moderate in a second.

Hazardous Substance Data Bank

The lethal oral dose of various ethylene glycols in humans is approximately 1.4 ml/kg.

12. ECOLOGICAL INFORMATION

For 2-Butoxyethanol

LC50 (96hr) bluegill:.....	1,490 mg/L. Cond: Static, 23° C.
LC50 (24hr) goldfish:.....	1,650-1,700 mg/L.
LC50 (24hr) water flea:.....	1,720 mg/L.

13. DISPOSAL CONSIDERATIONS

RCRA Waste Code:..... Not regulated.

Observe all applicable federal, state, and local regulations.

14. TRANSPORT INFORMATION

DOT Hazard Class..... Not regulated.
TDG Hazard Class..... Not regulated.

15. REGULATORY INFORMATION

OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200)

Hazardous Non-Hazardous

SARA HAZARD CATEGORIES (40 CFR 370)

Acute Chronic Fire Pressure Reactive None

SARA TOXIC CHEMICALS (40 CFR 372)

Chemical Name	CAS Number	%
Glycol ethers, including 2-Butoxyethanol	111-76-2	1-5

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (CPR Section (33))

This product has been classified according to the hazard criteria of the Controlled Products Regulations, and the MSDS contains all required information.

Controlled Product; Classification: D2B Not a Controlled Product

INVENTORY STATUS

This chemicals in this product are either listed on, or exempt from, the US TSCA Chemical Substance Inventory and the Canadian Domestic Substances List.

TOXIC SUBSTANCES CONTROL ACT

2-Butoxyethanol is subject to the Preliminary Assessment Information Rule (40 CFR 712.30 (w)) and Health and Safety Data Reporting (40 CFR 716.120(a)).

STATE REGULATIONS

- Rhode Island Hazardous Substance List2-Butoxyethanol
- Florida Hazardous Substance List2-Butoxyethanol
- Massachusetts Right to Know List2-Butoxyethanol
- Minnesota Hazardous Substance List.....2-Butoxyethanol
- New Jersey Right to Know List.....2-Butoxyethanol
- Pennsylvania Right to Know List2-Butoxyethanol

16. OTHER INFORMATION

ABBREVIATIONS

- C - Ceiling limit
- LC_{Lo} - The lowest concentration of a substance in air that will kill a test animal within a certain exposure period.
- LC₅₀ - The concentration of a substance in air that will kill 50% of test animals within a certain exposure period.
- LD₅₀ - The dose that causes death in 50% of test animals.
- N/A - Not applicable
- N/D - Not determined
- N/E - Not established
- N/K - Not known
- NAERG - North American Emergency Response Guidebook
- RQ - Reportable Quantity
- TPQ - Threshold Planning Quantity

PREPARATION INFORMATION

Date Prepared:.....January 5, 2000