

MATERIAL SAFETY DATA SHEET

SECTION 1. PRODUCT/MANUFACTURER'S IDENTITY

PRODUCT NAME: BROTHER'S ORANGE PEEL **PRODUCT I.D. NUMBER (PIN):** N.A.
PRODUCT NUMBER: N/A **WHMIS CLASS:** B3; D2B
PRODUCT USE: All purpose cleaner/degreaser **DOT HAZARD CLASS:** Non-Regulated
COMPANY:
BROTHER'S MANUFACTURING **DOT SHIPPING NAME:**
10900 60TH STREET N. N.A.
GRANT, MN 55082
EMERGENCY PHONE: 800-843-6174

H.M.I.S.

	HEALTH	HAZARD RATING
1		
2	FIRE	4 = Extreme 3 = High
0	REACTIVITY	2 = Moderate 1 = Slight
B	MAXIMUM PERSONAL PROTECTION	0 = Insignificant

A = Goggles B = Goggles & Gloves C = Goggles, Gloves & Apron

ABBREVIATION KEY: N.A. - Not Applicable N.E. = Not Established N.D. = Not Determined

SECTION 2 - HAZARDOUS INGREDIENTS INFORMATION

HAZARDOUS CHEMICAL IDENTITY	CAS NO.	%	PEL	TLV	LD50	LC50
Water	7732-18-5	60-100	N.E.	N.E.	N.D.	N.D.
d-Limonene	5989-27-5	5-10	N.E.	N.E.	>5g/kg	N.D.
Alkanolamide	N.A.	10-30	N.E.	N.E.	N.D.	N.D.
Nonionic surfactants	N.A.	5-10	N.E.	N.E.	N.D.	N.D.

This mixture does not contain components which are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR, Part 372.

SECTION 3 - PHYSICAL DATA

Color: Light Yellow **Boiling Point:** 100°C (212°F) **Vapor Pressure:** <30 mm of Hg **pH:** 8.8 - 9.5
Odor: Citrus **Freezing Point:** 0°C (32°F) **Vapor Density (Air=1):** <1 **1% pH:** 7.6
Physical State: Liquid **Water/Oil Distribution:** N.E. **Evaporation Rate (Water=1):** N.E. **Specific Gravity:** 0.99 gm/ml
Solubility in Water: Complete **Odor Threshold:** N.E. **VOC Content:** 10.0% **Weight per Gallon:** 8.30 lbs./gal.

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Flash Point and Method: 124°F 51°C (C.C.) **Autoignition Temperature:** N.A. **Extinguishing Media:** Use dry chemical or CO2.
Flammable Limits: Combustible Liquid. **LEL:** N.E. **UEL:** N.E. **Special Fire Fighting Procedures:** Use proper protective equipment.
Hazardous Combustion Products: N.A. **Unusual Fire and Explosion Hazards:** Avoid sources of ignition.

SECTION 5 - REACTIVITY DATA

Chemical Stability: Stable. **Hazardous decomposition of By-Products:** None known.
Incompatibility (Materials to Avoid): Strong oxidizers and sources of ignition. **Hazardous Polymerization:** Will not occur.

SECTION 6 - TOXICOLOGICAL PROPERTIES

Routes of Entry: Ingestion, Inhalation, Skin contact. **Toxicologically Synergistic Products:** None known.
Sensitization: No. **Medical Conditions Aggravated by Exposure:** None known.
EFFECTS OF OVEREXPOSURE (Acute and/or Chronic):
Eyes: May cause irritation. **Carcinogenic Effects:** NO carcinogenic effect.
Skin: May cause mild irritation. **Mutagenic Effects:** NO mutagenic effect.
Ingestion: May cause gastrointestinal irritation, nausea, diarrhea. **Teratogenic Effects:** NO teratogenic effect.
Inhalation: Exposure in poorly ventilated area may cause respiratory irritation. **Reproductive Toxicity:** NO reproductive toxicity effect.

SECTION 7 - PREVENTATIVE AND CONTROL MEASURES

Respiratory Protection: None normally required with adequate ventilation. **Ventilation:** Local Exhaust: N.A. Mechanical: Acceptable
Protective Gloves: Rubber if needed to protect sensitive skin.
Protective Clothing and Equipment: As needed to prevent wetting of clothing.
Storage: Store in cool, dry area away from sources of ignition. Empty container retains vapor and product residue; do not puncture or weld on or near container.
Requirements: **Work and Hygienic Practices:** After handling, always wash hands thoroughly with soap and water.
 Other Requirements: Keep out of reach of children.
Steps to be Taken if Material is Spilled or Released: Collect and reuse if possible. Ventilate area and remove all sources of ignition. Collect on inert material (sand, clay, etc.) and place into container for proper disposal. Do not allow runoff into public waterways.
Waste Disposal: Dispose of as permitted by all federal, provincial, state and local regulatory authorities.

SECTION 8 - EMERGENCY FIRST AID PROCEDURES

FIRST AID - NOTES TO PHYSICIAN:
Eyes: Flush with a large amount of water for 15 minutes holding eyelids open.
Skin: Wash with mild soap and water.
Ingestion: Give 2-3 large glasses of water. Seek medical attention. In all cases if symptoms persist, seek medical attention.
Inhalation: Remove to fresh air and rest. In all cases if symptoms persist, seek medical attention.
Note to Physician: No additional information.

SECTION 9 - PREPARATION INFORMATION

Prepared By: Regulatory Affairs Department **Phone:** 651-646-1696 **Date of Preparation:** 6/20/2008.