

S.C. Johnson Wax  
 Racine, Wisconsin 53403-5011  
 Phone: (414) 631-2777  
 Emergency Phone: (800) 228-5635  
 Extension 092  
 International Emergency Phone:  
 Extension 092

4=Very High  
 3=High  
 2=Moderate  
 1=Slight  
 0=Insignificant

HAZARD RATING	
HMIS	NFPA
3 Health	
0 Flammability	
0 Reactivity	

## MATERIAL SAFETY DATA SHEET

### SECTION I-PRODUCT IDENTIFICATION

PRODUCT NAME: BRAVO EXTRA HEAVY DUTY STRIPPER			PRODUCT CODE: 14585-2-3 to 14589-2-3		
CHEMICAL OR COMMON NAME: NA	DATE ISSUED: 07/10/92	SUPERSEDES: 02/25/91	MSDS SECTIONS WITH CHANGES: IX X XI	PREPARED BY: Terry A. Meyers Chemical Info. Adm.	

### SECTION II-INGREDIENT INFORMATION

INGREDIENTS	WEIGHT %	EXPOSURE LIMIT
Alkali Metasilicate (CAS# 1344-09-8)	3-6	NOT ESTABLISHED
[PA,NJ,MA] Sodium Hydroxide (CAS# 1310-73-2)	3-5	2 MG/M3 ACGIH/OSHA CEILING
[PA,NJ,MA] Monoethanolamine (CAS# 141-43-5)	3-6	3 PPM ACGIH/OSHA TWA, 6 PPM ACGIH/OSHA STEL
Water (CAS# 7732-18-5)	75-90	NA
See Regulatory Information (Section XII) for explanation of bracketed information.		

### SECTION III-PHYSICAL DATA

APPEARANCE/ODOR: Clear liquid with citrus odor	SPECIFIC GRAVITY (H2O=1): 1.1
VAPOR PRESSURE (mm Hg): ND	PERCENT VOLATILE BY VOLUME (%): NA
SOLUBILITY IN WATER: Complete	VAPOR DENSITY (Air=1): ND
FREEZING POINT (°F): ND	BOILING POINT (°F): above 200
pH: 12.8Min. (undiluted)	EVAPORATION RATE (Butyl Acetate=1): NA
VOC (as packaged, minus H2O): ND	THEORETICAL VOC (lb/gal): ND

### SECTION IV-FIRE AND EXPLOSION INFORMATION

FLASH POINT (°F) (Method Used): NA
FLAMMABLE LIMITS: NA
EXTINGUISHING MEDIA: Foam. CO2. Dry Chemical. Water Fog.
SPECIAL FIREFIGHTING PROCEDURES: Normal fire fighting procedures may be used.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Corrosive Material (See Sections VI, VIII).

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**SECTION V-HEALTH HAZARD DATA**

**PRIMARY ROUTE OF ENTRY:** Skin contact.

**SIGNS AND SYMPTOMS:** Direct contact of product with eyes can cause severe irritation and damage. Prolonged or repeated contact of product with skin may cause irritation. If taken internally, product may cause corrosive damage to mouth, throat or stomach.

**FIRST AID PROCEDURES:** Flush eyes with water for 15 minutes. If irritation persists, seek medical aid. If product gets on skin, remove with soap and water. If product is swallowed, drink large amounts of water or milk and seek medical aid. For ingestion, due to the extreme pH of the product, the possibility of corrosive damage to mouth, throat and stomach should be considered in treatment.

**MEDICAL CONDITIONS GENERALLY RECOGNIZED AS BEING AGGRAVATED BY EXPOSURE:** Persons with pre-existing skin disorders may be more susceptible to irritating effects.

**SECTION VI-REACTIVITY DATA**

**STABILITY:** Stable

**STABILITY-CONDITIONS TO AVOID:** None known

**INCOMPATIBILITY:** Strong acids (e.g., muriatic acid). Aluminum, tin, zinc, and copper alloys

**HAZARDOUS DECOMPOSITION PRODUCTS:** When exposed to fire, produces normal products of combustion.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**HAZARDOUS POLYMERIZATION-CONDITIONS TO AVOID:** None known

**SECTION VII-SPILL OR LEAK PROCEDURES**

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Absorb with oil-dri or similar inert material. Sweep or scrape up and containerize. Rinse affected area thoroughly with water.

**WASTE DISPOSAL INFORMATION:** For undiluted product: Disposal is regulated under the Resource Conservation and Recovery Act as a corrosive waste (40 CFR 261.22). Disposal of regulated quantities should be by neutralization at a permitted facility in accordance with all Federal/State regulations and local ordinances regarding disposal of corrosive wastes. Waste from normal product use may be sewerred to a public-owned treatment works (POTW) in compliance with applicable Federal, State, and local pretreatment requirements.

**SECTION VIII-SPECIAL PROTECTION INFORMATION**

**RESPIRATORY PROTECTION:** No special requirements under normal use conditions.

**VENTILATION:** General room ventilation adequate.

**PROTECTIVE GLOVES:** Rubber.

**EYE PROTECTION:** For undiluted product: Chemical workers splash-proof goggles

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**SECTION VIII-SPECIAL PROTECTION INFORMATION (cont.)**

**OTHER PROTECTIVE MEASURES:** Use good personal hygiene practices. Where gross eye/skin contact may be a problem, wear/use appropriate protective equipment. Wear protective shoes or boots when working with product.

**SECTION IX-SPECIAL PRECAUTIONS**

**PRECAUTIONARY LABELING:** WARNING: Contains caustic alkali. Can cause eye damage. Avoid contact with eyes, skin, and clothing. Harmful if swallowed. Wear eye protection and rubber gloves when handling concentrate. Wear protective shoes or boots when working with product to avoid contact with feet. Keep out of reach of children. FOR INDUSTRIAL USE ONLY.

**OTHER HANDLING AND STORAGE CONDITIONS:** Product residue may remain on/in empty containers. All precautions for handling the product must be used in handling the empty container and residue. Keep from freezing. Keep out of reach of children. Wash thoroughly after handling.

**SECTION X-ADDITIONAL INFORMATION**

**ADDITIONAL INFORMATION:** This MSDS also covers product codes: 04586,04587,04588.

**EPA REGISTRATION #:** NA

**SECTION XI-TRANSPORTATION INFORMATION**

**DOT CLASS:** Corrosive Material (Liquid).

**DOT #:** NA 1760.

**SHIPPING NAME:** Compound, Cleaning Liquid (Containing Sodium Hydroxide), Corrosive Material, NA 1760.

**SECTION XII-REGULATORY INFORMATION**

All components of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

There are no ingredients subject to the reporting requirements under California's Proposition 65.

MA - These ingredients are subject to the reporting requirements under the Massachusetts Hazardous Substance List.

NJ - These ingredients are subject to the reporting requirements under the New Jersey Right to Know Hazardous Substance List.

PA - These ingredients are subject to the reporting requirements under the Pennsylvania Hazardous Substance List.

NA-Not Applicable, NE-Not Established, NSR-No Special Requirement, ND-Not Determined

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R-106 (Rev 5 - 10/90)