

# MATERIAL SAFETY DATA SHEET

(Prepared According to 29 CFR 1910.1200)

DATE PREPARED: 06/01/2000

CODE:

SECTION 1 - PRODUCT IDENTIFICATION			
Distributor	Bruske Products	Transportation Emergency Phone: 1-800-255-3924	Refer To Product Code: BL-030
Address: 7747 Duvan Drive, Tinley Park, Illinois 60477			
Trade Name	RDG PLUS RAW #1	Product Type: Industrial Cleaner/Degreaser Component	
SECTION 2 - INGREDIENTS			
CHEMICAL NAME/COMMON NAME	CAS NO.	PERCENT (optional)	TLV (Source)
Potassium Hydroxide	1310-58-3	25 - 35%	2ppm (TWA:STEL)
Sodium Metasilicate	6834-92-0	5 - 10%	None Established
SARA HAZARD: TITLE III, SECTION 313: Contains no Section 313 listed substances subject to reporting.			
SECTION 3 - PHYSICAL DATA			
Boiling point (°F)	212°F	Specific Gravity @20+1.3	1.4 ± 0.005      pH 13.5 ± 0.5
Vapor Pressure (mm Hg)	Not Determined	Vapor Density (Air=1)	Not Determined
Solubility in water	<input checked="" type="checkbox"/> Complete <input type="checkbox"/> Insoluble <input type="checkbox"/> Emulsifiable (or Dispersible) <input type="checkbox"/> Slight (or Partial)		
Evaporation Rate (vs. H <sub>2</sub> O)	<input type="checkbox"/> Faster <input type="checkbox"/> Slower <input checked="" type="checkbox"/> About the Same      Appearance and Odor: Clear liquid with no distinct odor.		
SECTION 4 - FIRE AND EXPLOSION HAZARD DATA			
Flash Point (T.C.C.)	°F: <input checked="" type="checkbox"/> None to Boiling      Flammable Limits: N/A      Upper:      Lower:		
Extinguishing Media	This product is not combustible. Water spray, dry chemical, CO <sub>2</sub> , or foam may be used where this product is stored.		
Special Firefighting Procedures	Do not enter confined fire-spaces without protective clothing and self-contained air supply.		
Unusual Fire and Explosion Hazards	None		
SECTION 5 - REACTIVITY DATA			
Stability	Stable      Incompatibility: Strong acids/oxidizers.		
Hazardous Decomposition Products	Burning may produce oxides of carbon and other substances.		
SECTION 6 - HEALTH HAZARD DATA			
Primary Routes of Exposure	<input checked="" type="checkbox"/> Eye <input checked="" type="checkbox"/> Skin <input checked="" type="checkbox"/> Inh <input type="checkbox"/> Ingestion <input type="checkbox"/> Other		
Signs and Symptoms of Overexposure (Acute)	Corrosive to all body tissues by all routes of exposure. Contact with skin can produce severe burns and destroy tissues; irritation may be delayed. Contact with eyes may cause severe burns, permanent damage and possibly blindness. Harmful or fatal if swallowed — causes severe burns of mouth, throat and stomach. Irritation of generated mists or spray may cause respiratory irritation or damage.		
Signs and Symptoms of Overexposure (Chronic)	Chronic local effect may consist of multiple areas of superficial destruction of the skin or of primary irritant dermatitis.		
Medical Conditions Aggravated by Overexposure	An existing dermatitis.		
Carcinogen or Suspect Carcinogen Ingredients	<input type="checkbox"/> NTP <input type="checkbox"/> IARC <input type="checkbox"/> OSHA <input checked="" type="checkbox"/> NONE		
SECTION 7 - EMERGENCY AND FIRST AID PROCEDURES			
Eyes	Flush eyes with water for at least 15 minutes and call a physician immediately.		
Skin	Wash affected areas with large amounts of soap and water. If irritation persists call a physician.		
Ingestion	Do NOT induce vomiting. Dilute by drinking water. Call a physician immediately.		
Inhalation	Remove to fresh air. Start artificial respiration if necessary. Oxygen may be administered. Call a physician.		
SECTION 8 - SPECIAL PROTECTION INFORMATION			
Respiratory Protection	Not required under normal use conditions. Assure adequate ventilation to prevent release of vapors and/or mists which exceed regulatory limits.		
Ventilation Requirements	Normal <input type="checkbox"/> Local Exhaust <input type="checkbox"/> Mechanical <input type="checkbox"/> Other      Eye Protection: Safety Glasses/Goggles		
Protective Gloves	Rubber/PVC      Other Protective Clothing: Impervious protective clothing appropriate to minimize contact (ie: boots, apron, face shield) especially where spray-back/misting conditions exist.		
SECTION 9 - SPILL OR LEAK PROCEDURES			
If Released or Spilled Steps to be Taken	Do not touch or walk through spilled material. Stop leak if you can do it without risk. Take up small spills with sand or other inert absorbent material and place into containers for later disposal. Dike ahead of large spill for later disposal.		
Waste Disposal Methods	Dispose of in an approved waste facility according to Federal, State and local regulations.		
SECTION 10 - STORAGE AND HANDLING INFORMATION			
Precautions to be Taken in Handling and Storage	WARNING: Corrosive liquid. Handle all containers carefully. Keep container closed when not in use. Wash thoroughly after handling. Remove any contaminated clothing and laundry before reuse. Do not get in eyes, on skin or clothing.		

The health hazards given on this Material Safety Data Sheet apply to this product in its concentrated form (as supplied) and may differ significantly at use dilution. The signs and symptoms of overexposure apply only to negligence in handling or misuse of the concentrated product and not to the routine exposure of the diluted product under conditions of ordinary use.

HMIS  
HAZARD  
RATING

HEALTH	3
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	X

0 - LEAST  
1 - SLIGHT  
2 - MODERATE  
3 - HIGH  
4 - EXTREME

**MATERIAL SAFETY DATA SHEET**  
(Prepared According to 29 CFR 1910.1200)

DATE PREPARED: 6/1/2000

SECTION 1 - PRODUCT IDENTIFICATION			
Distributor	Bruske Products	Transportation Emergency Phone: 800.621.8553	Refer To Product Code:
Address	7747 Duvan Drive, Tinley Park, Illinois 60477		
Trade Name	RDG PLUS RAW #2	Product Type:	Industrial Cleaner/Degreaser Component

SECTION 2 - INGREDIENTS			
CHEMICAL NAME/COMMON NAME	CAS NO.	PERCENT(optional)	TLV(Source)
Nonionic Surfactant	9016-45-9	20 - 30%	None Established
Tetrasodium E.D.T.A.	64-02-8	10 - 15%	None Established

SARA HAZARD: TITLE III, SECTION 313: Contains no Section 313 listed substances subject to reporting.

SECTION 3 - PHYSICAL DATA			
Boiling point (°F.)	212°F	Specific Gravity (H <sub>2</sub> O=1.0)	1.07 ± 0.005
Vapor Pressure (mm Hg)		Not Determined	
Solubility in water		pH	
<input checked="" type="checkbox"/> Complete <input type="checkbox"/> Insoluble <input type="checkbox"/> Emulsifiable (or Dispersible) <input type="checkbox"/> Slight (or Partial)		12.9 ± 0.5	
Evaporation Rate (vs. H <sub>2</sub> O)	<input type="checkbox"/> Faster <input checked="" type="checkbox"/> Slower <input type="checkbox"/> About the Same	Appearance and Odor	Clear colored liquid with characteristic odor.

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA			
Flash Point (T.C.C.)	°F. <input checked="" type="checkbox"/> None to Boiling		
Flammable Limits	N.A.	Upper	Lower
Extinguishing Media	This product is noncombustible. Water Spray, Dry Chemical, CO <sub>2</sub> ; or foam may be used where this product is stored.		
Special Firefighting Procedures	Do not enter confined fire-spaces without protective clothing and self-contained air supply.		
Unusual Fire and Explosion Hazards	None		

SECTION 5 - REACTIVITY DATA	
Stability	Stable
Incompatibility	Strong Acids/Oxidizers. Do not mix with chlorinated detergents (bleach).
Hazardous Decomposition Products	Burning may produce oxides of carbon and other substances.

SECTION 6 - HEALTH HAZARD DATA	
Primary Routes of Exposure	<input checked="" type="checkbox"/> Eye <input checked="" type="checkbox"/> Skin <input checked="" type="checkbox"/> Oral <input type="checkbox"/> Inhalation <input type="checkbox"/> Other
Signs and Symptoms of Overexposure (Acute)	Direct contact with eyes may cause severe irritation, pain, swelling of conjunctiva and possible corneal damage if not promptly treated. May cause moderate to severe skin irritation with prolonged or repeated contact. Ingestion can cause severe irritation or burns of the mouth, nose, throat and stomach along with nausea and vomiting.
Signs and Symptoms of Overexposure (Chronic)	None currently known.
Medical Conditions Aggravated by Overexposure	An existing dermatitis.
Carcinogen or Suspect Carcinogen Ingredients	<input type="checkbox"/> NTP <input type="checkbox"/> IARC <input type="checkbox"/> OSHA <input checked="" type="checkbox"/> NONE

SECTION 7 - EMERGENCY AND FIRST AID PROCEDURES	
Eyes	Flush eyes with water for at least 15 minutes and call a physician immediately.
Skin	Wash affected areas with large amounts of soap and water. If irritation persists call a physician.
Ingestion	Do NOT induce vomiting. Dilute by drinking water. Call a physician immediately.
Inhalation	Remove to fresh air. Start artificial respiration if necessary. Oxygen may be administered. Call a physician.

SECTION 8 - SPECIAL PROTECTION INFORMATION	
Respiratory Protection	Not required under normal conditions with good general ventilation.
Ventilation Requirements	Normal <input type="checkbox"/> Local Exhaust <input type="checkbox"/> Mechanical <input type="checkbox"/> Other <input type="checkbox"/> Eye Protection Safety Glasses/Goggles
Protective Gloves	Rubber/PVC <input type="checkbox"/> Other Protective Clothing Protective clothing appropriate to minimize contact during specific operations.

SECTION 9 - SPILL OR LEAK PROCEDURES	
If Released or Spilled Steps to be Taken	Do not touch or walk through spilled material. Stop leak if you can do it without risk. Take up small spills with sand or other inert absorbent material and place into containers for later disposal. Dike ahead of large spill for later disposal.
Waste Disposal Methods	Dispose of in an approved waste facility according to Federal, State and local regulations.

SECTION 10 - STORAGE AND HANDLING INFORMATION	
Precautions to be Taken in Handling and Storage	No special requirements if product is handled according to good manufacturing practices. Keep container closed when not in use. Wash thoroughly after handling. Remove any contaminated clothing and launder before reuse. Do not get in eyes, on skin or clothing.

The health hazards given on this Material Safety Data Sheet apply to this product in its concentrated form (as supplied) and may differ significantly at use dilution. The signs and symptoms of overexposure apply only to negligence in handling or misuse of the concentrated product and not to the routine exposure of the diluted product under conditions of ordinary use.

HMIS  
HAZARD  
RATING

HEALTH	2
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	X

0 - LEAST  
1 - SLIGHT  
2 - MODERATE  
3 - HIGH  
4 - EXTREME