

MATERIAL SAFETY DATA SHEET

(Prepared According to 29 CFR 1910.1200)

DATE PREPARED: 2/4/2004

Code: 8856

SECTION 1 - PRODUCT IDENTIFICATION			
Distributor Bruske Products	Transportation Emergency Phone: 800.621.8553	Refer To Product Code:	
Address 7447 Duvan Drive, Tinley Park, Illinois 60477			
Trade Name Release D' Grease # 2 (MSDSRDG 1/2)		Product Type Surfactant/Builder Concentrate	
SECTION 2 - INGREDIENTS			
CHEMICAL NAME/COMMON NAME	CAS NO.	PERCENT(optional)	TLV(Source)
Nonionic Surfactant	9016-45-9	30-40%	None Established
Tetrasodium E.D.T.A.	64-02-8	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(1BP)	Specific Gravity (H2O=1.0)	1.06 ± 0.005	pH 12.5 ± 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. H2O) <input type="checkbox"/> Faster <input type="checkbox"/> Slower <input checked="" type="checkbox"/> About the Same		
Appearance and Odor Dark purple 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 Product is noncombustible. Water Spray(Fog); Dry Chemical; CO2; or Foam may be used where 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 carbon monoxide and/or carbon dioxide.			
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 & 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 use conditions with good general ventilation.			
Ventilation Requirements Normal <input type="checkbox"/> Local Exhaust <input type="checkbox"/> Mechanical <input type="checkbox"/> Other	Eye Protection Chemical Goggles		
Protective Gloves Rubber/PVC	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. Dike ahead of large spills to prevent run off. Mop, pump or take up with sand or other inert absorbent and reclaim into containers for reuse, recycle or proper 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.			

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

MATERIAL SAFETY DATA SHEET

(Prepared According to 29 CFR 1910.1200)

DATE PREPARED: 2/4/2004

Code: 8964

SECTION 1 - PRODUCT IDENTIFICATION			
Distributor	Bruske Products	Transportation Emergency Phone: 800.621.8553	Refer To Product Code
Address: 7447 Duvan Drive, Tinley Park, Illinois 60477			
Trade Name	Release D'Grease # 1 (MSDSRDG 1/2)	Product Type: Alkaline Conditioner / Builder	
SECTION 2 - INGREDIENTS			
CHEMICAL NAME/COMMON NAME	CAS NO.	PERCENT(optional)	TLV(Source)
Potassium Hydroxide	1310-58-3	20-30%	2ppm (TWA;STEL)
Dipotassium E.D.T.A.	2001-94-7	15-25%	Not Established
Potassium Silicate	1312-76-1	30-50%	Not Established
SARA HAZARD: TITLE III, SECTION 313:			
SECTION 3 - PHYSICAL DATA			
Boiling point (°F.)	212°F (IBP)	Specific Gravity (H ₂ O=1.0)	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 ₂ O)	<input type="checkbox"/> Faster <input type="checkbox"/> Slower <input checked="" type="checkbox"/> About the Same	Appearance and Odor: Clear, colorless 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	Product is noncombustible. Water Spray (Fog), Dry Chemical; CO ₂ ; or Foam may be used where 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	Acids/oxidizers. Do not mix with chlorinated detergents (bleach).
Hazardous Decomposition Products	Burning may produce carbon monoxide and/or carbon dioxide.		
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)	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 & possible blindness. Harmful or fatal if swallowed- causes severe burns of mouth, throat and stomach. Inhalation 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	Provide ventilation to keep concentration of listed components below TLV.		
Ventilation Requirements	Normal <input type="checkbox"/> Local Exhaust <input type="checkbox"/> Mechanical <input type="checkbox"/> Other	Eye Protection	Face Shield / Chemical Goggles
Protective Gloves	Rubber/PVC	Other Protective Clothing	Impervious protective clothing appropriate to minimize contact (IE: boots,apron,faceshield) depending on operation.
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. Dike ahead of large spills to prevent run-off. Mop, pump or take up with sand or other inert absorbent & reclaim for reuse, recycle or proper 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. Do not get in eyes, on skin or clothing. Keep container closed when not in use. Wash thoroughly after handling.		

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