Material Safety Data Sheet

Take Off RF

Section 1. Chemical Product and Company Identification

Product

Take Off RF

Name

Product Number BL0812

Product Use Very Aggressive No-Rinse Stripper

Manufacturer/

Amrep, Inc.

Supplier 990 Industrial Park Drive

Marietta, GA 30062

Phone Number (770) 422-2071 (Mon-Fri/ 8am- 5pm ET)

D.O.T. Emergency Phone:

CHEM TEL (800) 255-3924 INTERNATIONAL: +

01-813-248-0584

Date of Preparation

April 27 2009 Revision Number 1.0

Section 2. Hazards Identification

Emergency overview This product is a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

DANGER!

Keep out of reach of children.

Keep container closed during storage.

Potential Acute Health

Effects

Corrosive to skin and eyes on contact. Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may

produce burns. Inhalation of the spray mist may produce severe irritation of respiratory tract,

characterized by coughing, choking, or shortness of breath.

Routes of Entry Absorbed through skin. Eye contact. Inhalation. Ingestion.

Eyes Corrosive to eyes on contact. Eye contact can result in corneal damage or blindness.

Skin Corrosive to skin and eyes on contact. Tissue Destruction Possible. Skin contact may

produce burns.

Inhalation The product is a severe irritant for lungs and respiratory tract. Liquid or spray mist may

produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory

tract.

Ingestion Harmful if swallowed. Burns to mouth, throat and stomach. May be fatal if swallowed.

Medical conditions aggravated by exposure:

May aggravate existing respiratory conditions such as asthma. Severe over exposure may cause nervous system damage and kidney damage. Repeated or prolonged exposure to the

substance may produce liver damage, blood disorders.

Potential Chronic Health

Effects

May aggravate existing respiratory conditions such as asthma. Severe over exposure may cause nervous system damage and kidney damage. Repeated or prolonged exposure to the

substance may produce liver damage, blood disorders.

Carcinogenic Effects Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

Target organs

Environmental effects

Section 3. Composition and Information on Ingredients

Name	CAS#	% by Weight	Exposure Limits	LC ₅₀ /LD ₅₀
2-Butoxyethanol	111-76-2	<21	TWA: 20 (ppm) from ACGIH (TLV) [United States] TWA: 50 (ppm) from OSHA (PEL) [United States]	ORAL (LD50): Acute: 1746 mg/kg [Rat].
Potassium Hydroxide	1310-58-3	<10	Not available.	Not available.
Sodium Xylene Sulfonate	1300-72-7	<7	Not available.	ORAL (LD50): Acute: 650 mg/kg [Rat]. 5939 mg/kg [Mouse].
Monoethanolamine	141-43-5	<5	TWA: 3 (ppm) TWA: 6 (ppm) from OSHA (PEL) [United States] STEL: 6 (ppm)	Not available.

Section 4. First Aid Measures

Avoid contact with eyes Call a poison control center or doctor immediately for treatment **Eye Contact**

advice. Hold eye open and rinse slowly and thoroughly with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

Rinse skin immediately with plenty of water for 15 to 20 minutes. **Skin Contact**

Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give Inhalation

artificial respiration., preferably mouth to mouth if possible.

Call a poison control center immediately for treatment advice. Have person sip a glass of **Ingestion**

water if able to swallow. Do NOT induce vomiting unless instructed to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person

In case of Accident or if you feel unwell, seek medical advice immediately (show label or General Advice

MSDS where possible).

Notes to Physician

Section 5. Fire Fighting Measures

Non-flammable. **Flammability**

Fire Fighting Media

Non-flammable substance.

and Instructions

Products of Combustion Not available.

Special Remarks on Fire No additional remark.

Hazards

Special Remarks on

Explosion Hazards

Sensitivity to Mechanical

N/A

Impact

Sensitivity to

Static Discharge N/A

No additional remark.

Protection of Fire Fighters

See special remarks on Fire Hazards

Section 6. Accidental Release Measures

Personal Precautions Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be

sufficient; consult a specialist BEFORE handling this product.

Methods for Containment Corrosive liquid. Do not touch damaged container or spilled material. Isolate the

area, do not attempt to clean-up spill, notify your manager for additional instructions.

Environmental precautions

See Methods for Containment

Methods for Clean Up

See Methods for Containment

Section 7. Handling and Storage

Precautions After handling, always wash hands thoroughly with soap and water. Do not breathe

gas/fumes/ vapor/spray. Do not ingest. Good general ventilation should be sufficient to

control airborne levels.

Incompatibility acids, oxidizing materials, metals

Storage Corrosive materials should be stored in a separate safety storage cabinet or room. Handle

and open container with care Keep out of the reach of children. Not for use or storage in or

around the home.

Keep out of reach of children.

Keep container closed during storage.

Section 8. Exposure Controls/Personal Protection

Engineering Controls

Personal Protection Good general ventilation should be sufficient to control airborne levels.

Eyes Splash goggles.

Body Wear overalls or long sleeved shirt and long trousers, nitrile rubber or neoprene gloves, rubber

boots.

Respiratory Wear appropriate respirator when ventilation is inadequate. Be sure to use a MSHA/NIOSH

approved respirator or equivalent.

Hands Gloves (impervious).

Protective Clothing (Pictograms)









Exposure Limits 2-Butoxyethanol

TWA: 25 (ppm)

TWA: 50 (ppm) from OSHA (PEL)

Monoethanolamine

TWA: 3 (ppm)

TWA: 6 (ppm) from OSHA (PEL)

STEL: 6 (ppm)

Consult local authorities for acceptable exposure limits.

Section 9. Physical and Chemical Properties

Physical State and

Appearance

Liquid. (Liquid.)

Odor Color Characteristic.
Colorless.

Molecular Weight

Not applicable. 13.5 to 14 [Basic.]

Boiling/Condensation

Point

pН

214°F initial

Melting/Freezing Point

Not available.

Not available. **Critical Temperature Instability Temperature** Not available. **Specific Gravity** 1.04 (Water = 1)20mm Hg @ 68°F Vapor Pressure

Vapor Density >1 (Air = 1)

Volatility 90

VOC Not available.

Evaporation Rate <1 compared to Water **Dispersion Properties** See solubility in water. **Solubility** Easily soluble in cold water.

The Product is: May be combustible at high temperature.

Not available. **Auto-ignition**

Temperature

Flash Points Not available. Flammable Limits Not available. Fire Hazards in Presence

of Various Substances

Non-flammable.

Explosion Hazards in Presence of Various

Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Substances

Section 10. Stability and Reactivity Data

The product is stable. **Stability**

Incompatibility with **Various Substances**

acids, oxidizing materials, metals

Hazardous Decomposition Will not occur.

Products

Section 11. Toxicological Information

Routes of Entry

Toxicity to Animals Absorbed through skin. Eye contact. Inhalation. Ingestion.

Acute Effects on Humans WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A

4-HOUR EXPOSURE.

Acute oral toxicity (LD50): 1746 mg/kg [Rat]. (2-Butoxyethanol).

Acute toxicity of the gas (LC50): 926 ppm 4 hour(s) [Mouse]. (2-Butoxyethanol).

Eves Corrosive to eyes on contact. Eye contact can result in corneal damage or blindness. Corrosive to skin and eyes on contact. Tissue Destruction Possible. Skin contact may Skin

produce burns.

Inhalation The product is a severe irritant for lungs and respiratory tract. Liquid or spray mist may

produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory

Ingestion Harmful if swallowed. Burns to mouth, throat and stomach. May be fatal if swallowed.

Chronic Effects on

Humans

May aggravate existing respiratory conditions such as asthma. Severe over exposure may cause nervous system damage and kidney damage. Repeated or prolonged exposure to the

substance may produce liver damage, blood disorders.

Special Remarks on

Toxicity to Animals

No additional remark.

Special Remarks on **Chronic Effects on**

Humans

No additional remark.

Section 12. Ecological Information

Ecotoxicity Not available. BOD5 and COD Not available.

Products of Possibly hazardous short term degradation products are not likely. However, long term

Biodegradation degradation products may arise.

Toxicity of the Products of Not available.

Biodegradation

Special Remarks on the

Products of Biodegradation

No additional remark.

Section 13. Disposal Considerations

Waste Information Any method in accordance with applicable laws.

Waste Stream Not available.

Section 14. Transport Information

DOT (U.S.A) (Pictograms)



TDG Classification 8



PIN UN, Proper Shipping Shipping name: Corrosive liquids n.o.s. UNNA: UN1760 PG: Il Name, PG

Maritime Transportation Not available.

Special Provisions for

Transport

Not available.

Section 15. Other Regulatory Information and Pictograms

Regulatory Lists No products were found.

Other Regulations OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications HCS (U.S.A.) HCS CLASS: Corrosive liquid.

USA Regulatory

Lists

This product does NOT contain components that are known to the state of California to Cause Cancer or Reproductive Harm at or above California

Prop 65 No Observable Effect Level (NOEL) (Safe Harbor Level).

SARA 311/312 MSDS distribution - chemical inventory - hazard Page 6 of 6 identification: 2-Butoxyethanol: immediate health hazard, delayed health

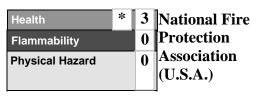
hazard; Potassium Hydroxide: immediate health hazard SARA 313 toxic chemical notification and release reporting:

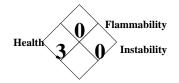
2-Butoxyethanol

DSD (EEC) R35- Causes severe burns.

International **Regulations Lists** No products were found.

Hazardous Material Information System (U.S.A.)





Specific Hazard

WHMIS (Classification) E D-1B





The Hazard Ranking systems presented on this MSDS provide only a quick reference for hazard information. The ENTIRE MSDS must be consulted to determine any specific hazards, First Aid measures, and PPE associated with this product.

Section 16. Other Information

Expiry date 3 (Three Years) from the date of preparation indicated in Section 1 Verified by CRushton. Validated by CRushton on 4/27/2009. Printed 4/27/2009.

Information Contact Amrep, Inc.

990 Industrial Park Drive Marietta, GA 30062

Notice to Reade

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Validated on 4/27/2009.

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