



Material Safety Data Sheet

Big red

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Id: big red

Product Name: big red

Synonyms: mixture

Chemical Family: mixture

Application: cleaner degreaser

Manufactured By:

AXSYS Direct mfg. 4523-97st
Edmonton ,AB, Canada,T8R1P4
1-866-543-5276

Prepared By: The Safety, Health and Environment Department of AXSYS DIRECT MFG.

Preparation date of MSDS: July 24, 2015

Telephone number of preparer: 1-866-543-5276

24-Hour Emergency Telephone Number 1-866-543-5276

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Percentage(W/W)	LD50s and LC50s Route & Species
Ethylene Glycol Monobutyl Ether Cas#111-76-2	11.5 % to 19.0%	100 Oral LD50 (Mouse) 1167 mg/kg Dermal LD50 (Rabbit) 220 mg/kg Inhalation LC50 (Mouse) 3380 mg/m ³ /7H Inhalation LC50 (Rat) 2900 mg/m ³ /7H
Disodium Metasilicate: Cas# 6834-92-0	7.0% to 10.0%	Oral LD50 Rat : 1153 mg/kg Oral LD50 Mouse : 770 mg/kg
Water 7732-18-5	71 to 81.5%	Not available.

All surfactants are non-hazardous –not controlled

Note: No additional remark.



3. HAZARDS IDENTIFICATION

Potential Acute Health Effects:

Eye Contact: May cause severe eye irritation. Symptoms include pain, redness and tearing.

Skin Contact: Brief contact may cause slight irritation with itching and local redness. Prolonged or repeated exposure may cause skin irritation, even a burn if product is a concentrate.

Inhalation: May cause irritation of upper respiratory tract. Irritation (upper respiratory): signs/symptoms can include soreness of the nose and throat, coughing and sneezing. May cause headache.

Ingestion: Harmful if swallowed. Moderately toxic. Small amounts swallowed incidental to normal handling operations are not likely to cause injury. Large doses are harmful if swallowed.

4. FIRST AID MEASURES

Eye Contact: In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

Skin Contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes. Get medical attention.

Inhalation: Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth if victim is rapidly losing consciousness, unconscious or convulsing. Seek medical attention.

Notes to Physician: Treatment based on sound judgment of physician and individual reactions of patient.

5. FIRE FIGHTING MEASURES

Flash Point 100 °C / 212 °F

Flash Point Method: Tag Closed Cup

Autoignition Temperature: n/a

Flammable Limits in Air (%): n/a

Extinguishing Media: Use DRY chemicals not likely to burn

Special Exposure Hazards: n/a

Hazardous Decomposition/Combustion Materials (under fire conditions): n/a

Special Protective Equipment: Fire fighters should wear full protective clothing.

NFPA RATINGS FOR THIS PRODUCT ARE: HEALTH 1, FLAMMABILITY 0, REACTIVITY 0

WHMIS RATINGS FOR THIS PRODUCT ARE: HEALTH 1, FLAMMABILITY 0, REACTIVITY 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures: Wear appropriate protective equipment.

Environmental Precautionary Measures: Prevent entry into sewers or streams, dike if needed.

Procedure for Clean Up: Isolate hazard area and restrict access. Stop leak only if safe to do so. Residue may be washed into sewer in accordance with local and federal regulations.

Small spills: soak up with absorbent material and scoop into containers.

Large spills: prevent contamination of waterways. Dike and pump into suitable containers. Clean up residual with absorbent material, place in appropriate container and flush with water.

7. HANDLING AND STORAGE

Handling: For industrial use only. Handle and open containers with care. Avoid contact with eyes, skin and clothing. Do not ingest. Avoid inhalation of chemical. Keep the containers closed when not in use. Protect against physical damage. Use appropriate personnel protective equipment.

Storage: Store in a cool, dry, well ventilated area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

Local exhaust ventilation as necessary to maintain exposures to within applicable limits.

Respiratory Protection: If exposure exceeds occupational exposure limits, use an appropriate NIOSH approved respirator. In case of spill or leak resulting in unknown concentration, use NIOSH approved supplied air respirator.

Gloves: Appropriate chemical resistant gloves should be worn.

Skin Protection: Impervious clothing. Rubber apron. The selection of personal protective equipment varies depending upon conditions of use.

Eyes: Chemical goggles. If exposure causes eye discomfort, use a full-face respirator.

Other Personal Protection Data: Ensure that eyewash stations and safety showers are proximal to the work-station location.

Ingredients	Exposure Limit - ACGIH	Exposure Limit – OSHA	Immediately Dangerous to Life or Health - IDLH
Ethylene Glycol Monobutyl Ether	20 ppm (97 mg/m ³) TLV-TWA	50 ppm (240 mg/m ³), skin, PEL-TWA	700 ppm

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Colour: Colour red

Odour: Ether.

pH 14

Specific Gravity: 1.019 @ 20°C

Boiling Point: 100 °C / 212 °F

Freezing/Melting Point: -0°C / -32 °F

Vapour Pressure: n/a

Vapour Density: 1.0

% Volatile by Volume: 90% Wt @ 20°C

Evaporation Rate: n/a

Solubility: complete

VOCs: Not Available.

Viscosity: Not Available.

Molecular Weight: Not Available



10. STABILITY AND REACTIVITY

Chemical Stability: Stable.

Hazardous Polymerization: Will not occur.

Materials to Avoid: Oxidizing agents. Strong acids

Hazardous Decomposition Products: carbon monoxide, carbon dioxide.

Additional Information:

No additional remark.

11. TOXICOLOGICAL INFORMATION

Principle Routes of Exposure

Ingestion: Harmful if swallowed. Moderately toxic. Small amounts swallowed incidental to normal handling operations are not likely to cause injury. Large doses are harmful if swallowed.

Skin Contact: Brief contact may cause slight irritation with itching and local redness. Prolonged or repeated exposure may cause skin irritation, even a burn.

Inhalation: May cause irritation of upper respiratory tract. Irritation (upper respiratory): signs/symptoms can include soreness of the nose and throat, coughing and sneezing. May cause headache.

Eye Contact: May cause severe eye irritation. Symptoms include pain, redness and tearing.

Additional Information: Excessive exposure to ethylene glycol monobutyl ether may cause hemolysis, thereby impairing the blood's ability to transport oxygen. Repeated exposure may cause red blood cell hemolysis, leading to possible kidney and liver damage.

Acute Test of Product:

Acute Oral LD50: Not Available.

Acute Dermal LD50: Not Available.

Acute Inhalation LC50: Not Available.

Carcinogenicity:

Ingredients IARC - Carcinogens ACGIH - Carcinogens

Ethylene Glycol Monobutyl Ether Group 3 A3 - Confirmed animal carcinogen with unknown relevance to humans

Carcinogenicity Comment: In long-term animal studies with ethylene glycol butyl ether, small but statistically significant increases in tumors were seen in mice but not rats. These effects are not believed to be relevant to humans, if the material is handled in accordance with proper industrial handling, exposures should not pose any carcinogenic risk to man.

Reproductive Toxicity/ Teratogenicity/ Embryotoxicity/ Mutagenicity: Ethylene glycol monobutyl ether did not cause birth defects in animals; other effects were seen in the fetus only at doses with caused toxic effects to the mother. In laboratory animal studies for Glycol Ether , effects on reproduction have been seen only at doses that produced significant toxicity to the parent animals.

12. ECOLOGICAL INFORMATION

Ecotoxicological Information:

Ingredients	Ecotoxicity - Fish Species Data	Acute Crustaceans Toxicity:	Ecotoxicity – Freshwater Algae Data
Ethylene Glycol Monobutyl Ether	LC50 (bluegill) 1490 mg/L LC50 (goldfish) 1650 mg/L	Not Available	Not Available

Other Information:

Material is practically non-toxic to fish on an acute basis.



13. DISPOSAL CONSIDERATIONS

Disposal of Waste Method: Disposal of all wastes must be done in accordance with municipal, provincial and federal regulations.

Contaminated Packaging: Empty containers should be recycled or disposed of through an approved waste management facility.

14. TRANSPORT INFORMATION

DOT (U.S.):

DOT Shipping Name: Not Regulated.

DOT Hazardous Class: Not Applicable.

DOT UN Number: Not Applicable.

DOT Packing Group: Not Applicable.

DOT Reportable Quantity (lbs): Not Applicable.

Note: No additional remark.

Marine Pollutant: No.

ICAO/IATA:

IATA Proper Shipping Name: Not Regulated.

IATA Hazard Class: Not Applicable.

UN Number: Not Applicable.

Packing Group: Not Applicable.

IATA Label: Not Applicable.

IATA Remarks: No additional remark.

IMDG:

IMDG Proper Shipping Name: Not Regulated.

Hazard Class: Not Applicable.

UN Number: Not Applicable.

Packing Group: Not Applicable.

Marine Pollutant: No.

IMDG Label: Not Applicable.

Remarks: No additional remark.

TDG (Canada):

TDG Proper Shipping Name: Not Regulated.

Hazard Class: Not Applicable.

UN Number: Not Applicable.

Packing Group: Not Applicable.

Note: No additional remark.

Marine Pollutant: No.

15. REGULATORY INFORMATION

U.S. TSCA Inventory Status: All components of this product are either on the Toxic Substances Control Act (TSCA) Inventory List or exempt.

Canadian DSL Inventory Status: All components of this product are either on the Domestic Substances List (DSL), the Non-Domestic Substances List (NDSL) or exempt.

Note: Not available.

WHMIS Hazardous Class E CORROSIVE MATERIAL

WHMIS Hazardous Class MATERIALS CAUSING OTHER TOXIC EFFECTS (DIVISION 2)



16. OTHER INFORMATION

Additional Information: This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

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*****END OF MSDS*****