

MATERIAL SAFETY DATA SHEET

Dual



1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT: Dual
PRODUCT DESCRIPTION: Odour Counteractant / Cleaner Degreaser

MANUFACTURER
NPD Products Ltd.
NoHowe Product Development
2325 Old Second South
Midhurst, Ontario, Canada L0L 1X1
Phone (705) 734-0932

24 HOUR EMERGENCY TELEPHONE
CHEMTREC U.S. and CANADA 1-800-424-9300
CHEMTREC All other Areas: 1-703-527-3887

COMMENTS:
NPD's Hours of Operation are 8:00 am to 5:00 pm EST

2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Weight %	CAS#	TWA-TLV
Oleth-3 Phosphate	0-10%	39464-69-2	Not established

Comments:
Ingredients not identified are proprietary or nonhazardous. Values are not product specifications

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

IMMEDIATE CONCERNS:

CAUTION. Mild Eye and Skin Irritant. Harmful if swallowed. Avoid contact with skin and eyes. Wear safety Glasses with side shields and appropriate personal protective equipment when handling this material.

POTENTIAL HEALTH EFFECTS

EYES:

Direct contact can cause temporary irritation, tearing and blurred vision. Flush with water for at least 15 minutes

SKIN:

Can cause mild skin irritation. Prolonged or repeated exposure can cause irritation and reddening of the hide, progressing into dermatitis.

SKIN ABSORPTION:

Not expected.

INGESTION:

Can cause nausea, diarrhoea, and abdominal cramps. Seek medical attention

INHALATION:

Not expected under normal conditions.

MATERIAL SAFETY DATA SHEET

Dual



Page 2 of 4

4. FIRST AID PROCEDURES

Inhalation: Not expected to cause inhalation issues. If breathing is difficult seek medical attention immediately.
Skin Contact: Flush skin with running water until foam has washed away. (Up to 20 minutes). If irritation persists seek medical attention.
Ingestion: Give 1 to 2 glasses of water to dilute material. Seek medical advice and induce vomiting if advised.
Eye Contact: Flush eyes with running water for 20 minutes. Hold eyelids open during flushing. If irritation persists seek Medical Attention.

5. FIRE FIGHTING MEASURES

Fire Extinguishing Media: Foam, Dry Chemical, Carbon Dioxide, and Water Fog
Fire Fighting Procedures: Wear self-contained Breathing Apparatus and impervious clothing. Under fire avoid the use of water as it may spread flame.
Other Fire or Explosion Hazards: Combustible liquid. Keep away from sparks and open flame.

6. ACCIDENTAL RELEASE MEASURES

Spill and Leak Procedures: Stop leak and contain spill. Apply suitable absorbent (like cat litter) and sweep up spilled material. Transfer into waste container for appropriate disposal. Continue to dilute the effected area with water until foam has disappeared. Remove any contaminated soil for proper disposal if so advised.
Waste Disposal: Dispose of empty container in household garbage. Dispose of waste product in accordance with Local, Provincial or Federal government regulations.
Environmental Effects: None expected from product alone. Do not contaminate local water supplies or environment with risings or mixtures. This material on it's own will reduce the surface tension of the water and may have an adverse effect on aquatic life if not suitably diluted.

7. HANDING AND STORAGE

Handling:
Wear personal protective equipment that will prevent skin and eye contact (such as gloves, glasses, coveralls, etc).
Storage:
Store original containers in a room where the temperature range is between 0°C and 35°C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: Prolonged usage requires a NIOSH/MSHA approved respirator,
Eye Protection: Splash goggles
Skin Protection: Chemical resistant gloves.
Other Personal Protective Equipment: Coveralls
Engineering Controls: Local exhaust or ventilation.
Handling Procedures and Equipment: Avoid breathing vapours and/or dust, contact with eyes, skin and clothing. Wash thoroughly after use.

MATERIAL SAFETY DATA SHEET

Dual



9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid	Appearance\Odour: clear
Specific Gravity: 0.840	pH: 7.0
Boiling Point: 176 c	Freezing/Melting Point: -5 ⁰ C
Vapour Pressure: 1.2 mm of Hg @20 c	Vapour Density: Not Applicable
% Volatiles: No Data	Evaporation Rate: Not Applicable
Solubility in water: Fully Soluble	

10. STABILITY AND REACTIVITY

Stable: Yes
Hazardous Polymerization: No
Conditions to avoid: Strong oxidizers and reducing agents

11. TOXICOLOGICAL INFORMATION

No toxicological information is available on this product. None of the components present in this material at concentrations greater than 0.1% are listed by OSHA or ACGIH as being carcinogens.

12. ECOLOGICAL INFORMATION

As a concentrated surfactant this product will have an adverse effect on aquatic environments at high levels. Under normal conditions it is not expected to have any effect on aquatic or terrestrial environments.

13. DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose of empty container in household garbage. Dispose of waste product in accordance with Local, Provincial or Federal government regulations.

14. TRANSPORTATION INFORMATION

Not Regulated.

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES:

FIRE: NO PRESSURE GENERATING: NO REACTIVITY: NO ACUTE: NO

302/304 EMERGENCY PLAN: There are no SARA Title III Section 302 extremely hazardous substances present in this formulation.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA STATUS: All chemical substances found in this product comply with the Toxic Substances Control Act inventory reporting requirements.

MATERIAL SAFETY DATA SHEET

Dual



Page 4 of 4

16. OTHER INFORMATION

REVISION SUMMARY

N/A

HMIS CODES

FIRE: 2 HEALTH: 2 REACTIVITY: 1

HMIS RATINGS NOTES:

We have assigned HMIS ratings to this product based on the hazards of its ingredients and the final product. Since the customer is most aware of the applications and conditions of use, they must ensure that the proper personal protective equipment is provided consistent with the information contained in this MSDS.

COMMENTS:

The information contained herein is considered accurate and offered only as a guide to the handling of this specific material. This information, does not relate to its use with any other material or product or in any process. No warranty, expressed or implied is made regarding the accuracy of the data or the performance of the material by NoHowe Product Development. The information and data contained herein is based on information currently available to NPD, and believed to be factual and the opinions expressed to be those of qualified experts. This Material Safety Data Sheet is valid for three years from Issue Date.

Prepared by: NPD

Issue Date: February 1, 2005

Revision Date: Jan. 1 2007