

“CHEMICAL SOLUTIONS THROUGH ADVANCED TECHNOLOGY”

MATERIAL SAFETY DATA SHEET

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Date Prepared: 02/10/2006

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity

Product Name: **TOUGH-STUF (HEAVY DUTY ALL PURPOSE CLEANER)**

General or Generic ID: PROPRIETARY MIXTURE

Product Use: CLEANER

Prepared By: Safety Department

Telephone: (613) 992-4624

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s)	TLV	CAS Number	% (by weight)
Sodium Metasilicate	2Mg/Kg	6834-92-0	1.0 - 5.0
Sodium Hydroxide	N/A	1310-73-2	5.0 - 10.0
Tetrasodium Ethylene Diamine Acetate	N/A	64-02-8	1.0 - 5.0
Sodium Xylene Sulfonate	N/A	1300-72-7	6.0 - 10.0
Nonyl Phenol Ethoxylate	N/A	68412-54-4	3.0 - 5.0
Sodium Tripolyphosphate	N/A	13573-18-7	1.0 - 5.0
Dodecylbenzene Sulphonic Acid	N/A	27176-87-0	1.0 - 5.0
Laureth Sulfate, Sodium Salt	N/A	68585-34-2	6.0 - 10.0
Cocoanut Diethanolamine	3 PPM	111-42-2	1.0 - 5.0

3. HAZARDS IDENTIFICATION

Potential Health Effects

Eye

Eye irritant. Can cause redness.

Skin

Can cause skin irritation. Burns can result from prolonged contact

Ingestion

Low acute oral toxicity. May cause nausea, diarrhea, abdominal cramps.

Inhalation

Inhalation not likely. Mists may cause upper respiratory tract irritation.

4. FIRST AID MEASURES

Eyes

If material gets into the eyes, immediately flush eyes gently with water for at least 15 minutes while holding eyelids apart. Get medical attention.

Skin

In case of contact, immediately wash with plenty of soap and water for at least 5 minutes. Seek medical attention if irritation develops or persists. Remove contaminated clothing and shoes. Clean contaminated clothing and shoes before re-use.

Ingestion

Seek immediate medical attention. **DO NOT induce vomiting.** Vomiting will cause further damage to the mouth and throat. If possible, do not leave individual unattended.

Inhalation

Remove individual away from exposure and into fresh air. Seek immediate medical attention. Keep person warm and quiet.

5. FIRE FIGHTING MEASURES**Flash Point**

No Data

Explosive Limit

No Data

Auto Ignition Temperature

No Data

Hazardous Products of Combustion

No Data

Fire and Explosion Hazards

No Data

Extinguishing Media

No Data

Fire Fighting Instructions

Wear a self-contained breathing apparatus with a full-face piece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment. Refer to the personal protective equipment section of this MSDS.

6. ACCIDENTAL RELEASE MEASURES**Cleanup and disposal of Spills:**

Absorb with an inert absorbent. Shovel up into an appropriate closed container. (see Section 7: Handling and storage).

7. HANDLING AND STORAGE

Do not handle unless the safety precautions have been read and understood. Avoid skin and eye contact. Keep containers tightly closed when not in use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Eye Protection**

Chemical splash goggles and face shield (8" min.) in compliance with OSHA regulations are advised; however, OSHA regulations also permit other types of safety glasses. (Consult your industrial hygienist).

Skin Protection

Wear impervious gloves (consult your safety equipment supplier). To prevent skin contact, wear impervious clothing and boots.

Respiratory Protections

If workplace exposure limit(s) of product or any component is exceeded (see exposure guidelines), a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions (see your industrial hygienist). Engineering or administrative controls should be implemented to reduce exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES**Boiling Point**

105°C

Freezing Point

No Data

TOUGH-STUF

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Vapour Pressure

No Data

Vapour Density

No Data

Specific Vapour Density

No Data

Specific Gravity

1.15

Evaporation Rate

No Data

Solubility in Water

Complete

Appearance

Clear red solution

State

Liquid

Physical Form

Homogeneous Solution

Colour

Red

Odour

Bland

pH

13 – 14

10. STABILITY AND REACTIVITY

Hazardous Polymerization

Product will not undergo hazardous polymerization.

Hazardous Decomposition

Smoke

Oxides of carbon

Chemical Stability

Stable.

Incompatibility

Oxidizing Agent.

11. TOXICOLOGICAL INFORMATION

LD 50 and LC 50 Data – **Sodium Metasilicate** (6834-92-0)

Oral LD50 (rat): 1600 Mg/Kg

Dermal LD50 (rabbit): N/A

Inhalation LC50 (rat): N/A

LD 50 and LC 50 Data – **Sodium Hydroxide** (1310-73-2)

Oral LD50 (rat): 365 Mg/Kg

Dermal LD50 (rabbit): N/A

Inhalation LC50 (rat): N/A

LD 50 and LC 50 Data – **Tetrasodium Ethylene Diamine Acetate** (64-02-8)

Oral LD50 (rat): 0.6 G/Kg

Dermal LD50 (rabbit): N/A

Inhalation LC50 (rat): N/A

D 50 and LC 50 Data – **Sodium Xylene Sulfonate** (1300-72-7)

Oral LD50 (rat): N/A

Dermal LD50 (rabbit): N/A

Inhalation LC50 (rat): N/A

LD 50 and LC 50 Data – **Nonyl Phenol Ethoxylate** (68412-54-4)

Oral LD50 (rat): 3,000 Mg/Kg

Dermal LD50 (rabbit): 2,830 Mg/Kg

Inhalation LC50 (rat): N/A

LD 50 and LC 50 Data – **Sodium Tripolyphosphate** (13573-18-7)

Oral LD:50 (rat): 6,500 Mg/Kg

LD 50 and LC 50 Data – **Dodecylbenzene Sulphonic Acid** (27176-87-0)

Oral LD:50 (rat): 650 Mg/Kg

Dermal LD:50 (rabbit): N/E

LD 50 Data – **Laureth Sulfate, Sodium Salt** (68585-34-2)

Oral LD:50 (rat): 7,700 Mg/Kg

Dermal LD:50 (rabbit): N/A

LD 50 Data – **Cocoonut Diethanolamine** (111-42-2)

Oral LD:50 (rat): 680 Mg/Kg

Dermal LD:50 (rabbit): > 8,200 Mg/Kg

12. ECOLOGICAL INFORMATION

No data

13. DISPOSAL CONSIDERATION

Waste Management Information

Dispose of in accordance with Local, Provincial and Federal Regulations.

14. TRANSPORT INFORMATION

TDG Information

Description:

Not Regulated

15. REGULATORY INFORMATION

Canadian Regulations

CEPA/DSL (Domestic Substances List) Status

The intentional ingredients of this product are listed.

WHMIS (Workplace Hazardous Materials Information System) Classification

CLASS D2B; E – Toxic Material - Corrosive Material

16. OTHER INFORMATION

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.