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**SECTION 1) CHEMICAL PRODUCT AND SUPPLIER'S IDENTIFICATION**

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Product ID : C-H232  
Product Name : Turbo Clean Heavy Duty Degreaser  
Revision Date : Nov 18, 2016 **Supersedes Date :** Jul 29, 2016  
Version: 1.0  
Manufacturer's Name: HD Chem  
Address : 707 W. 16th St. Long Beach, CA 90813  
**Emergency Phone :** 1-888-403-2436  
**Information Phone :** 1-888-403-2436  
**Fax :** 1-562-495-7716  
**Product/Recommended Uses:** Spray and Wipe Cleaner

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**SECTION 2) HAZARDS IDENTIFICATION**

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**Classification:**

Acute toxicity Dermal Category 5  
Acute toxicity Oral Category 4

**Pictograms:****Signal Word:**

Warning

**Hazardous Statements - Health:**

H313 - May be harmful in contact with skin  
H302 - Harmful if swallowed

**Precautionary Statements - General:**

P101 - If medical advice is needed, have product container or label at hand.  
P102 - Keep out of reach of children.  
P103 - Read label before use.

**Precautionary Statements - Prevention:**

P264 - Wash thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.

**Precautionary Statements - Response:**

P312 - Call a POISON CENTER or doctor/physician if you feel unwell.  
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.

**Precautionary Statements - Storage:**

No precautionary statement available.

**Precautionary Statements - Disposal:**

P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

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**SECTION 3) COMPOSITION / INFORMATION ON INGREDIENTS**

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CAS	Chemical Name	% by Weight
0007732-18-5	WATER	75% - 95%
0000111-76-2	ETHYLENE GLYCOL MONOBUTYL ETHER	2% - 6%

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**SECTION 4) FIRST-AID MEASURES**

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**Inhalation:**

Remove source of exposure or move person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. If breathing has stopped, trained personnel should begin rescue breathing or, if the heart has stopped, immediately start cardiopulmonary resuscitation (CPR) or automated external defibrillation(AED).

**Eye Contact:**

Remove source of exposure or move person to fresh air. Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for a duration of 15-20 minutes. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists: Get medical advice/attention.

**Skin Contact:**

Take off immediately contaminated clothing. Rinse skin with water/shower for 5 minutes or until product is removed. Store contaminated clothing under water and wash before re-use or discard.

**Ingestion:**

Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. If vomiting occurs naturally, lie on your side, in the recovery position.

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**SECTION 5) FIRE-FIGHTING MEASURES**

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**Suitable Extinguishing Media:**

Will not burn. Use extinguishing media suitable for surrounding fire.

**Specific Hazards in Case of Fire:**

None.

**Fire-Fighting Procedures:**

Product is non-combustible.

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely.

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

**Special Protective Actions:**

Wear protective pressure self-contained breathing apparatus (SCBA)and full turnout gear.

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**SECTION 6) ACCIDENTAL RELEASE MEASURES**

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**Emergency Procedure:**

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

Do not touch or walk through spilled material.

Isolate hazard area and keep unnecessary people away. Remove all possible sources of ignition in the surrounding area. Wash product to sewer with large amounts of water in accordance with all federal, state, and local laws.

**Recommended Equipment:**

Safety glasses and gloves

**Personal Precautions:**

Avoid contact with skin, eye or clothing. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

**Environmental Precautions:**

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.

## SECTION 7) HANDLING AND STORAGE

### General:

Wash hands after use.  
Do not get in eyes, on skin or on clothing.  
Use good personal hygiene practices.  
Eating, drinking and smoking in work areas is prohibited.  
Remove contaminated clothing and protective equipment before entering eating areas.

### Ventilation Requirements:

Not normally required.

### Storage Room Requirements:

Keep container(s) tightly closed and properly labeled. Store in cool, dry, well-ventilated areas away from heat, direct sunlight and incompatibilities. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Containers that have been opened must be carefully resealed to prevent leakage. Empty container retain residue and may be dangerous.

## SECTION 8) EXPOSURE CONTROLS, PERSONAL PROTECTION

### Eye Protection:

Wear eye protection with side shields or goggles. Wear indirect-vent, impact and splash resistant goggles when working with liquids. If additional protection is needed for entire face, use in combination with a face shield.

### Skin Protection:

Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Use of an apron and over-boots of chemically impervious materials such as neoprene or nitrile rubber is recommended to avoid skin sensitization. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Launder soiled clothes or properly disposed of contaminated material, which cannot be decontaminated.

### Respiratory Protection:

None normally required

### Appropriate Engineering Controls:

If needed, provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Chemical Name	OSHA TWA (ppm)	OSHA TWA (mg/m3)	OSHA STEL (ppm)	OSHA STEL (mg/m3)	OSHA-Tables-Z1,2,3	OSHA Carcinogen	OSHA Skin designation	NIOSH TWA (ppm)	NIOSH TWA (mg/m3)	NIOSH STEL (ppm)	NIOSH STEL (mg/m3)	NIOSH Carcinogen
ETHYLENE GLYCOL MONOBUTYL ETHER	50	240			1		1	5	24			

Chemical Name	ACGIH TWA (ppm)	ACGIH TWA (mg/m3)	ACGIH STEL (ppm)	ACGIH STEL (mg/m3)
ETHYLENE GLYCOL MONOBUTYL ETHER	20	97		

## SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

### Physical and Chemical Properties

Density

8.31093 lb/gal

% Solids By Weight	0.00000%
Density VOC	0.33161 lb/gal
% VOC	3.99000%
VOC Actual	0.33161 lb/gal
VOC Actual	39.73635 g/l

Appearance	Lime Green Liquid
Odor Threshold	N.A.
Odor Description	Lemon/Lime Fragrance
pH	11.7
Water Solubility	Complete
Flammability	Will not burn
Flash Point Symbol	N.A.
Flash Point	N.A.
Viscosity	N.A.
Lower Explosion Level	N.A.
Upper Explosion Level	N.A.
Vapor Pressure	N.A.
Melting Point	N.A.
Vapor Density	N.A.
Freezing Point	N.A.
Low Boiling Point	215 °F
High Boiling Point	N.A.
Decomposition Pt	N.A.
Auto Ignition Temp	N.A.
Evaporation Rate	N.A.
VOC Composite Partial Pressure	N.A.

## SECTION 10) STABILITY AND REACTIVITY

### Stability:

The product is stable under normal storage conditions.

### Conditions to Avoid:

No data available.

### Incompatible Materials:

Oxidizing agents, acids.

### Hazardous Reactions/Polymerization:

Will not occur.

### Hazardous Decomposition Products:

None known.

## SECTION 11) TOXICOLOGICAL INFORMATION

### Skin Corrosion/Irritation:

Concentrate can cause irritation.

### Serious Eye Damage/Irritation:

Concentrate can cause irritation, redness, or tearing.

### Carcinogenicity:

No data available

### Germ Cell Mutagenicity:

No data available

### Reproductive Toxicity:

No data available

**Respiratory/Skin Sensitization:**

No data available

**Specific Target Organ Toxicity - Single Exposure:**

No data available

**Specific Target Organ Toxicity - Repeated Exposure:**

No data available

**Aspiration Hazard:**

No data available

**Acute Toxicity:**

If swallowed, product may be irritating to the gastrointestinal system.

0000111-76-2 ETHYLENE GLYCOL MONOBUTYL ETHER

- LC50 (female rat): 450 ppm (4-hour exposure) (2)
- LC50 (male rat): 486 ppm (4-hour exposure) (2)
- LD50 (oral, male weanling rat): 3000 mg/kg (1)
- LD50 (oral, 6-week old male rat): 2400 mg/kg (1)
- LD50 (oral, yearling male rat): 560 mg/kg (1)
- LD50 (oral, female rat): 530 mg/kg; 2500 mg/kg (1)LD50 (oral, male mouse): 1230 mg/kg (1)
- LD50 (oral, rabbit): 320 mg/kg (1)
- LD50 (dermal, male rabbit): 406 mg/kg (cited as 0.45 mL/kg) (1)

**Potential Health Effects - Miscellaneous**

0000111-76-2 ETHYLENE GLYCOL MONOBUTYL ETHER

Can be absorbed through the skin in harmful amounts. May cause injury to the kidneys, liver, blood and/or bone marrow. Repeated overexposure may result in damage to the blood. Eye contact may cause corneal injury. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother.

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**SECTION 12) ECOLOGICAL INFORMATION**

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**Toxicity:**

No data available.

**Persistence and Degradability:**

No data available.

**Bio-Accumulative Potential:**

No data available.

**Mobility in Soil:**

No data available.

**Other Adverse Effects:**

No data available.

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**SECTION 13) DISPOSAL CONSIDERATIONS**

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**Water Disposal:**

Under RCRA, it is the responsibility of the user of the product, to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state, and local laws.

Empty containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

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**SECTION 14) TRANSPORT INFORMATION**

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**U.S. DOT Information:**

Not regulated.

**IMDG Information:**

Not regulated.

**IATA Information:**

Not regulated.

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**SECTION 15) REGULATORY INFORMATION**

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CAS	Chemical Name	% By Weight	Regulation List
0000111-76-2	ETHYLENE GLYCOL MONOBUTYL ETHER	2% - 6%	CERCLA,SARA312,SARA313,VOC,TSCA,ACGIH,OSHA
0007732-18-5	WATER	75% - 95%	TSCA

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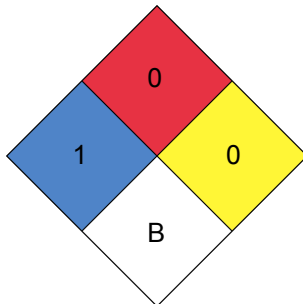
**SECTION 16) OTHER INFORMATION**

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**Glossary:**

ACGIH- American Conference of Governmental Industrial Hygienists; ANSI- American National Standards Institute; Canadian TDG- Canadian Transportation of Dangerous Goods; CAS- Chemical Abstract Service; Chemtrec- Chemical Transportation Emergency Center (US); CHIP- Chemical Hazard Information and Packaging; DSL- Domestic Substances List; EC- Equivalent Concentration; EH40 (UK)- HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA- Emergency Planning and Community Right-To-Know Act; ESL- Effects screening levels; HMIS- Hazardous Material Information Service; LC- Lethal Concentration; LD- Lethal Dose; NFPA- National Fire Protection Association; OEL- Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of Labor; PEL- Permissible Exposure Limit; SARA (Title III)- Superfund Amendments and Reauthorization Act; SARA 313- Superfund Amendments and Reauthorization Act, Section 313; SCBA- Self-Contained Breathing Apparatus; STEL- Short Term Exposure Limit; TCEQ - Texas Commission on Environmental Quality; TLV- Threshold Limit Value; TSCA- Toxic Substances Control Act Public Law 94-469; TWA - Time Weighted Value; US DOT- US Department of Transportation; WHMIS- Workplace Hazardous Materials Information System.

KEEP AWAY FROM CHILDREN  
FOR INDUSTRIAL AND INSTITUTIONAL USE ONLY  
FOR USE BY TRAINED PERSONNEL ONLY  
KEEP CONTAINER CLOSED DURING STORAGE

**HMIS**

Chronic :



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