

# Material Safety Data Sheet

HARLECO® Multi-Terge™ Detergent



## Section 1. Product and Company Identification

**Product name** : HARLECO® Multi-Terge™ Detergent  
**Product code** : 65058  
**Synonym** : Biodegradable Detergent  
**Material uses** : Other non-specified industry: Laboratory Reagent  
**Manufacturer** : EMD Chemicals Inc.  
P.O. Box 70  
480 Democrat Road  
Gibbstown, NJ 08027  
856-423-6300 Technical Service  
Monday - Friday: 8:00 - 5:00 PM  
**Validation date** : **12/4/2006.**  
**Print date** : 12/6/2006.  
**In case of emergency** : 800-424-9300 CHEMTREC (USA)  
613-996-6666 CANUTEC (Canada)  
24 Hours/Day: 7 Days/Week

## Section 2. Hazards Identification

**Physical state** : Liquid.  
**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).  
**Emergency overview** : WARNING!  
CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION.  
CONTAINS MATERIAL WHICH CAUSES DAMAGE TO THE FOLLOWING ORGANS:  
LUNGS, RESPIRATORY TRACT, SKIN, EYE, LENS OR CORNEA.  
MAY BE HARMFUL IF ABSORBED THROUGH SKIN OR IF SWALLOWED.  
CONTAINS MATERIAL WHICH MAY CAUSE DAMAGE TO THE FOLLOWING  
ORGANS: KIDNEYS, BLADDER.  
POSSIBLE CANCER HAZARD  
CONTAINS MATERIAL WHICH CAN CAUSE CANCER  
  
MAY CAUSE EYE BURNS.  
WARNING: This product contains a chemical(s) known to the State of California to cause cancer.  
Do not ingest. Avoid prolonged contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. Risk of cancer depends on duration and level of exposure.  
**Routes of entry** : Absorbed through skin. Dermal contact. Eye contact. Inhalation. Ingestion.  
**Potential acute health effects**  
**Eyes** : Irritating to eyes. May cause eye burns.  
**Skin** : Harmful in contact with skin. Irritating to skin.  
**Inhalation** : Irritating to respiratory system.  
**Ingestion** : Harmful if swallowed.  
**Carcinogenic effects** : Contains material which may cause cancer, based on animal data. Risk of cancer depends on duration and level of exposure.  
**Mutagenic effects** : No known significant effects or critical hazards.  
**Teratogenicity / Reproductive toxicity** : No known significant effects or critical hazards.

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## Section 2. Hazards Identification

**Medical conditions aggravated by over-exposure** : Repeated skin exposure can produce local skin destruction or dermatitis. Repeated or prolonged exposure to the substance can produce lung damage. Repeated or prolonged contact with spray or mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to the substance can produce target organs damage.

See toxicological information (section 11)

## Section 3. Composition/Information on Ingredients

### United States

<u>Name</u>	<u>CAS number</u>	<u>% by Weight</u>
Water	7732-18-5	88.1
Nitriлотriacetic Acid Trisodium	5064-31-3	7.4
Sodium Hydroxide	1310-73-2	<1.5
Emulsifier-K-30	68188-18-1	<1.2
Marlipal MG	9002-92-0	<1.2
Marlophen 820	37205-87-1	<1.2

## Section 4. First Aid Measures

- Eye contact** : Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention.
- Skin contact** : Flush contaminated skin with plenty of water. Continue to rinse for at least 10 minutes. Get medical attention. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing or wear gloves. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Inhalation** : Move exposed person to fresh air. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Ingestion** : Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

## Section 5. Fire Fighting Measures

**Flammability of the product** : No specific hazard.

### Extinguishing media

**Suitable** : Use an extinguishing agent suitable for the surrounding fire.

**Not suitable** : None known.

**Special exposure hazards** : Not available.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

**Special remarks on explosion hazards** : Development of hazardous combustion gases or vapors possible in the event of fire. carbon oxides (CO, CO<sub>2</sub>) and nitrogen oxides (NO, NO<sub>2</sub>...) (Nitriлотriacetic Acid Trisodium)

## Section 6. Accidental Release Measures

- Personal precautions** : Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment.
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
- Methods for cleaning up** : If emergency personnel are unavailable, contain spilled material. For small spills, add absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealable, liquid-proof container for disposal. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

## Section 7. Handling and Storage

- Handling** : Do not ingest. Avoid contact with eyes, skin and clothing. Keep container closed. Use only with adequate ventilation. Avoid breathing vapor or mist. Wash thoroughly after handling.
- Storage** : Keep container tightly closed. Keep container in a cool, well-ventilated area.

## Section 8. Exposure Controls/Personal Protection

### Product name

### Exposure limits

### United States

Sodium Hydroxide

### **ACGIH (United States).**

CEIL: 2 mg/m<sup>3</sup>

### **OSHA (United States).**

CEIL: 2 mg/m<sup>3</sup>

### **NIOSH REL (United States, 1994).**

CEIL: 2 mg/m<sup>3</sup>

### **OSHA Final Rule (United States, 1989).**

CEIL: 2 mg/m<sup>3</sup>

### **Consult local authorities for acceptable exposure limits.**

- Engineering measures** : Use only with adequate ventilation. If user operations generate dust, fumes, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

### Personal protection

- Eyes** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.  
Recommended: face shield
- Skin** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.  
Body: Recommended: safety apron or lab coat and gloves
- Respiratory** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Hands** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

## Section 9. Physical and Chemical Properties

Physical state	: Liquid.
Color	: Colorless to pale yellow liquid.
pH	: >11 [Basic.]
Boiling/condensation point	: The lowest known value is 99.9°C (211.8°F) (Water).
Melting/freezing point	: May start to solidify at 38.06 to 42.06°C (100.5 to 107.7°F) based on data for: Brij 35. Weighted average: 0.43°C (32.8°F)
Relative density	: Weighted average: 1.44 (Water = 1)
Evaporation rate	: 0.36 (Water) compared with(n-Butyl Acetate =1)

## Section 10. Stability and Reactivity

Stability and reactivity	: The product is stable.
Conditions of instability	: Avoid excessive heat. (Emulsifier-K-30)
Incompatibility with various substances	: Highly reactive or incompatible with the following materials: oxidizing materials and reducing materials. Reactive or incompatible with the following materials: acids, organic materials, metals, alkalis and moisture. Avoid excessive heat.
Hazardous polymerization	: Will not occur.
Conditions of reactivity	: Flammable in the presence of the following materials or conditions: open flames, sparks and static discharge, heat and shocks and mechanical impacts. Explosive in the presence of the following materials or conditions: metals.

## Section 11. Toxicological Information

### Toxicity data

#### United States

<u>Product/ingredient name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
Nitrilotriacetic Acid Trisodium	LD50	1100 mg/kg	Oral	Rat
	LD50	681 mg/kg	Oral	Mouse
	LD50	750 mg/kg	Oral	Monkey.
Sodium Hydroxide	LDLo	500 mg/kg	Oral	Rabbit
	LDLo	500 mg/kg	Oral	Rabbit
	LD50	>2000 mg/kg	Oral	Rat
Brij 35	LD50	8600 mg/kg	Oral	Rat

<b>Chronic effects on humans</b>	: <b>CARCINOGENIC EFFECTS</b> Classified 2B (Possible for humans.) by IARC [Nitrilotriacetic Acid Trisodium]. Contains material which causes damage to the following organs: lungs, upper respiratory tract, skin, eye, lens or cornea. Contains material which may cause damage to the following organs: kidneys, bladder.
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<b>Other toxic effects on humans</b>	: Very hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation (lung irritant). Hazardous in case of eye contact (corrosive), of ingestion. Slightly hazardous in case of skin contact (permeator), .
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<b>Special remarks on other toxic effects on humans</b>	: Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.
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### Specific effects

<b>Carcinogenic effects</b>	: Contains material which may cause cancer, based on animal data. Risk of cancer depends on duration and level of exposure.
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<b>Mutagenic effects</b>	: No known significant effects or critical hazards.
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<b>Teratogenicity / Reproductive toxicity</b>	: No known significant effects or critical hazards.
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### Sensitization

<b>Ingestion</b>	: No known significant effects or critical hazards.
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## Section 11. Toxicological Information

**Inhalation** : Irritating to respiratory system.  
**Eyes** : Irritating to eyes. May cause eye burns.  
**Skin** : Irritating to skin.

## Section 12. Ecological Information

**Environmental precautions** : No known significant effects or critical hazards.  
**Products of degradation** : These products are carbon oxides (CO, CO<sub>2</sub>) and water, nitrogen oxides (NO, NO<sub>2</sub> etc.). Some metallic oxides.  
**Toxicity of the products of biodegradation** : The products of degradation are less toxic than the product itself.

## Section 13. Disposal Considerations

**Waste disposal** : The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

**Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.**

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

## Section 14. Transport Information

Regulatory information	UN number	Proper shipping name	Class	PG*	Label	Additional information
DOT Classification	Not available.	CHEMICALS, N.O.S.	Not available.	-		Not available.

PG\* : Packing group

## Section 15. Regulatory Information

### United States

**HCS Classification** : Irritating material  
 Carcinogen  
 Target organ effects  
**U.S. Federal regulations** : TSCA 8(b) inventory: Listed

**Section 15. Regulatory Information**

SARA 302/304/311/312 extremely hazardous substances: No products were found.  
 SARA 302/304 emergency planning and notification: No products were found.  
 SARA 302/304/311/312 hazardous chemicals: Brij 35; Nitritotriacetic Acid Trisodium; Sodium Hydroxide  
 SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Brij 35: Immediate (acute) health hazard, Delayed (chronic) health hazard; Nitritotriacetic Acid Trisodium: Immediate (acute) health hazard, Delayed (chronic) health hazard; Sodium Hydroxide: Immediate (acute) health hazard, Delayed (chronic) health hazard

Clean Water Act (CWA) 307: No products were found.  
 Clean Water Act (CWA) 311: Sodium Hydroxide  
 Clean Air Act (CAA) 112 accidental release prevention: No products were found.  
 Clean Air Act (CAA) 112 regulated flammable substances: No products were found.  
 Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

**State regulations** : Pennsylvania RTK: Sodium Hydroxide: (environmental hazard, generic environmental hazard)  
 Massachusetts RTK: Nitritotriacetic acid trisodium; Sodium Hydroxide  
 New Jersey: Multiterge Solution™  
 WARNING: This product contains a chemical(s) known to the State of California to cause cancer.

<u>Ingredient name</u>	<u>Cancer</u>	<u>Reproductive</u>	<u>No significant risk level</u>	<u>Maximum acceptable dosage level</u>
Nitritotriacetic Acid Trisodium	Yes.	No.	No.	No.

**Canada**

**WHMIS (Canada)** : Class D-2A: Material causing other toxic effects (Very toxic).  
 Class D-2B: Material causing other toxic effects (Toxic).

**CEPA DSL/CEPA NDSL** : CEPA DSL: Brij 35; Marlophen 820; Nitritotriacetic Acid Trisodium; Sodium Hydroxide; Water

**This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.**

**EU regulations**

**Risk phrases** : This product is not classified according to EU legislation.

**International regulations**

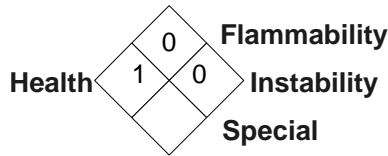
**International lists** : Australia (NICNAS): Brij 35; Marlophen 820; Nitritotriacetic Acid Trisodium; Sodium Hydroxide; Water  
 China: Nitritotriacetic Acid Trisodium  
 Germany water class: Brij 35; Nitritotriacetic Acid Trisodium  
 Japan (METI): Nitritotriacetic Acid Trisodium; Sodium Hydroxide; Water  
 Korea (TCCL): Brij 35; Marlophen 820; Nitritotriacetic Acid Trisodium; Sodium Hydroxide; Water  
 Philippines (RA6969): Brij 35; Marlophen 820; Nitritotriacetic Acid Trisodium; Sodium Hydroxide; Water

**Section 16. Other Information**

**Label requirements** : WARNING!  
 CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION.  
 CONTAINS MATERIAL WHICH CAUSES DAMAGE TO THE FOLLOWING ORGANS:  
 LUNGS, RESPIRATORY TRACT, SKIN, EYE, LENS OR CORNEA.  
 MAY BE HARMFUL IF ABSORBED THROUGH SKIN OR IF SWALLOWED.  
 CONTAINS MATERIAL WHICH MAY CAUSE DAMAGE TO THE FOLLOWING  
 ORGANS: KIDNEYS, BLADDER.  
 POSSIBLE CANCER HAZARD  
 CONTAINS MATERIAL WHICH CAN CAUSE CANCER

MAY CAUSE EYE BURNS.  
 WARNING: This product contains a chemical(s) known to the State of California to  
 cause cancer.

**National Fire Protection Association (U.S.A.)** :



**Notice to reader**

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