

## SAFETY DATA SHEET

### SECTION 1 - IDENTIFICATION

**Product identifier used on the label:** DIN2 IMUS INDUSTRIAL LAUNDRY DETERGENT

**Other means of Identification:** CABVI - 640.5.1

**Chemical Family:**

**Recommended use of the chemical:** Laundry Detergent

**Manufacturer/Supplier:** The Deirdre Imus Environmental Health Center®  
Hackensack University Medical Center

**Address:** 30 Prospect Avenue  
Hackensack, NJ 07601

**Telephone:** (551)-996-8071

**24 Hr. Emergency Tel. #:** Infotrac 1-800-535-5053 (North America), 011-1-352-323-3500 (International)

### SECTION 2 - HAZARDS IDENTIFICATION

**Classification of the chemical:**

Skin Corrosion/Irritation 2

Eye Damage/Irritation 2A

**Label elements:**

**Signal Word:** Warning

**Hazard statement(s)**

H315 Causes skin irritation

H319 Causes serious eye irritation

**Precautionary statement(s)**

P264 Wash exposed areas thoroughly after handling

P280 Wear protective gloves/protective clothing/eye protection/face protection

P302+352 IF ON SKIN: Wash with soap and water

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing

P321 Specific treatment (see section 4 of SDS)

P332+313 If skin irritation occurs: Get medical advice/attention

P337+313 If eye irritation persists get medical advice/attention

P362 Take off contaminated clothing and wash before reuse

P501 Dispose of contents/container in accordance with local regulation

## Hazard pictogram(s)



Other hazards not otherwise classified: None Known

## SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name, Common Name & Synonyms:	CAS #	Concentration %
Sodium Lauryl Sulfate	151-21-3	10-30
Undeceth-5	34398-01-1	3-7
Alkyl (C10-16) benzenesulfonic acid	68584-22-5	1-5
Sodium Hydroxide	1310-73-2	1-5
Citric acid	77-92-9	1-5
Sodium Iminodisuccinate	144538-83-0	0.1-1
Polyacrylic Acid, Sodium Salt	68479-09-4	0.1-1
Lipase	9001-62-1	0.1-1
Fragrance	Mixture	0.1-1
Ethanolamine	141-43-5	0.1-1
Aspartic acid, disodium salt	144589-95-6	<0.1
Alkyl Benzene-Ln (C10-13)	129813-58-7	<0.1
Sulfuric Acid	7664-93-9	<0.1

**\*\* If the chemical name/CAS # is "proprietary" and/or the weight % is shown as a range, this information had been withheld as a trade secret.**

## SECTION 4 – FIRST-AID MEASURES

### Description of first aid measures:

**If swallowed:** Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.

**If on skin (or hair):** Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs get medical advice/attention.

**If inhaled:** Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.

**If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists get medical advice/attention

**Most Important symptoms and effects, both acute and delayed:** Causes skin irritation and serious eye irritation

**Indication of any immediate medical attention and special treatment needed:** Treat symptomatically

## SECTION 5 - FIRE-FIGHTING MEASURES

### Extinguishing media:

**Suitable extinguishing media:** Carbon dioxide (CO<sub>2</sub>); Dry chemical; Alcohol-resistant foam; water fog.

**Unsuitable extinguishing media:** Do not use a solid water stream as it may scatter and spread fire.

**Special hazards arising from the substance or mixture:** No applicable information available

**Flammability classification:** Not flammable

**Hazardous combustion products:** Carbon oxides, other unidentified organic compounds.

**Special protective equipment and precautions for firefighters:**

**Protective equipment for fire-fighters:** Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

**Special fire-fighting procedures:** Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from firefighting to enter drains or water courses. Dike for water control.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** All persons dealing with the clean-up should wear the appropriate chemically protective equipment. Keep people away from and upwind of spill/leak. Restrict access to area until completion of clean-up. Refer to protective measures listed in sections 7 and 8.

**Methods and material for containment and cleaning up:** Do not allow material to contaminate ground water system. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply. Ventilate the area. Prevent further leakage or spillage if safe to do so. Soak up with inert absorbent material. Do not use combustible absorbents, such as sawdust. Pick up and transfer to properly labeled containers. Contaminated absorbent material may pose the same hazards as the spilled product. Contact the proper local authorities.

**Special spill response procedures:** In case of a transportation accident, contact Infotrac 1-800-535-5053 (North America), 011-1-352-323-3500 (International). If a spill/release in the US in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802).

## SECTION 7 - HANDLING AND STORAGE

**Precautions for safe handling:** Handle in accordance with good industrial hygiene and safety practice.

**Conditions for safe storage:** Keep container tightly closed and store in a cool, dry and well-ventilated place. Store locked up. Keep out of reach of children.

**Incompatible materials:** Oxidizing agents. Do not mix with other chemicals or cleaners

## SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits:					
		ACGH TLV		OSHA PEL	
Chemical Name	CAS #	TWA	STEL	PEL	STEL
Sodium Lauryl Sulfate	151-21-3				
Undeceth-5	34398-01-1				
Alkyl (C10-16) benzenesulfonic acid	68584-22-5				
Sodium Hydroxide	1310-73-2	2 mg/m <sup>3</sup>			
Citric acid	77-92-9				
Sodium Iminodisuccinate	144538-83-0				

Polyacrylic Acid, Sodium Salt	68479-09-4				
Lipase	9001-62-1				
Fragrance	Mixture				
Ethanolamine	141-43-5	3 ppm	6 ppm	3 ppm	
Aspartic acid, disodium salt	144589-95-6				
Alkyl Benzene-Ln (C10-13)	129813-58-7				
Sulfuric acid	7664-93-9	0.2 mg/m <sup>3</sup>		1 mg/m <sup>3</sup>	

### **Exposure controls:**

**Ventilation and engineering measures:** Use only in well-ventilated areas. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of insufficient ventilation wear suitable respiratory equipment.

**Respiratory protection:** If airborne concentrations are above the permissible exposure limit or are not known, use NIOSH-approved respirators. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134). Advice should be sought from respiratory protection specialists.

**Skin protection:** Wear protective gloves. Where extensive exposure to product is possible, use resistant coveralls, apron and boots to prevent contact. The suitability for a specific workplace should be discussed with the producers of the protective regimes.

**Eye face protection:** Wear eye/face protection. Wear as appropriate tightly fitting safety goggles; Safety glasses with side-shields.

**Other protective equipment:** Ensure that eyewash stations and safety showers are close to the workstation location. Other equipment may be required depending on workplace standards.

**General hygiene considerations:** Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice.

## **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:** Clear Straw liquid

**Odor:** Floral

**Odor threshold:** No applicable information available

**pH:** 7.5-8.5

**Melting/Freezing point:** No applicable information available

**Initial boiling point and boiling range:** No applicable information available

**Flash point:** No applicable information available

**Flashpoint (Method):** No applicable information available

**Evaporation rate (BuAe = 1):** Similar to water

**Flammability (solid, gas):** Not flammable

**Lower flammable limit (% by vol.):** Not Flammable

**Upper flammable limit (% by vol.):** Not Flammable

**Vapor pressure:** No applicable information available

**Vapor density:** No applicable information available

**Relative density:** 1.062

**Solubility in water:** No applicable information available

**Other solubility(ies):** No applicable information available

**Partition coefficient:** No applicable information available

**Auto ignition temperature:** No applicable information available

**Decomposition temperature:** No applicable information available

**Viscosity:** 150 cps

**Volatiles (% by weight):** No applicable information available

**Volatile organic Compounds (%VOC's):** 0.98

**Other physical/chemical comments:** No applicable information available

## SECTION 10 - STABILITY AND REACTIVITY

**Reactivity:** Not normally reactive

**Chemical stability:** Stable

**Possibility of hazardous reactions:** No hazardous polymerization

**Conditions to avoid:** Do not use in areas without adequate ventilation. Avoid contact with incompatible materials.

**Incompatible materials:** Strong oxidizing agents, strong acids.

**Hazardous decomposition products:** None known. Refer to 'Hazardous Combustion Products' in Section 5

## SECTION 11 - TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure:

**Routes of entry - inhalation:** Avoid breathing vapors or mists

**Routes of entry - skin & eye:** Avoid contact with skin or eyes

**Routes of entry - Ingestion:** Do not taste or swallow

### Potential Health Effects:

**Signs and symptoms of short term (acute) exposure:**

**Symptoms:** Please see section 4 of this SDS sheet for symptoms.

**Potential Chronic Health Effects:**

**Mutagenicity:** Not expected to be mutagenic in humans.

**Carcinogenicity:** No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

**Reproductive effects:** Not expected to have reproductive effects.

**Sensitization to material:** No data available to indicate product or components may be skin sensitizers. No data available to indicate product or components may be respiratory sensitizers.

**Specific target organ effects:** No data available to indicate product or components will have specific target organ effects.

**Medical conditions aggravated by overexposure:** Pre-existing skin or eye disorders.

**Toxicological data:**

See the following table for individual ingredient acute toxicity data.

Chemical name	CAS #	LD <sub>50</sub> (Oral, rat)	LD <sub>50</sub> (Dermal. Rabbit)	LC <sub>50</sub> (4hr, Inhal., rat)
Sodium Lauryl Sulfate	151-21-3			
Undeceth-5	34398-01-1			
Alkyl(C10-16)benzenesulfonic acid	68584-22-5	> 2000 mg/kg		
Sodium Hydroxide	1310-73-2	140-340 mg/kg	1350 mg/kg	
Citric acid	77-92-9			
Sodium Iminodisuccinate	144538-83-0			
Polyacrylic Acid, Sodium Salt	68479-09-4	> 5000 mg/kg		
Lipase	9001-62-1			
Fragrance	Mixture			
Ethanolamine	141-43-5	1720 mg/kg	1000 mg/kg	
Aspartic acid, disodium salt	144589-95-6			
Alkyl Benzene-Ln (C10-13)	129813-58-7			
Sulfuric acid	7664-93-9	2140 mg/kg		

\*All empty cells no applicable information available

Other important toxicological hazards: None reported.

## SECTION 12 - ECOLOGICAL INFORMATION

**Ecotoxicity:** No applicable information available.

**Persistence and degradability:** No applicable information available.

**Bioaccumulation potential:** No applicable information available.

**Mobility in soil:** No applicable information available.

**Other Adverse Environmental effects:** No applicable information available.

## SECTION 13 - DISPOSAL CONSIDERATIONS

**Handling for disposal:** Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8. Empty containers retain residue (liquid and/or vapour) and can be dangerous.

**Methods of disposal:** Dispose in accordance with all applicable federal, state, provincial and local regulations. Contact your local, state, provincial or federal environmental agency for specific rules.

**RCRA:** If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste UN defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

## SECTION 14 - TRANSPORTATION INFORMATION

**Special Shipping Information:** Keep from freezing.

**T.D.G. Classification:** Not regulated under T.D.G.

**D.O.T. Classification:** Not regulated under D.O.T.

## SECTION 15 - REGULATORY INFORMATION

**TSCA information:** All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

**Canadian Environmental Protection Act (CEPA) information:** All ingredients listed appear on the Domestic Substances List (DSL).

## SECTION 16 - OTHER INFORMATION

**Legend:**

**ACGIH:** American Conference of Governmental Industrial Hygienists

**CAS:** Chemical Abstract Services

**CERCLA:** Comprehensive Environmental Response, Compensation, and Liability Act of 1980

**CFR:** Code of Federal Regulations

**CSA:** Canadian Standards Association

**DOT:** Department of Transportation

**ECOTOX:** U.S. EPA Ecotoxicology Database

**EINECS:** European Inventory of Existing Commercial chemical Substances

**EPA:** Environmental Protection Agency

**HSDB:** Hazardous Substances Data Bank

**IARC:** International Agency for Research on Cancer

**IUCLID:** International Uniform Chemical Information Database

**LC:** Lethal Concentration

**LD:** Lethal Dose

**NIOSH:** National Institute of Occupational Safety and Health

**NTP:** National Toxicology Program

**OECD:** Organization for Economic Co operation and Development

**OSHA:** Occupational Safety and Health Administration

**PEL:** Permissible exposure limit

**RCRA:** Resource Conservation and Recovery Act

**RCRCS:** Registry of Toxic Effects of Chemical Substances

**SARA:** Superfund Amendments and Reauthorization Act

**SDS:** Safety Data Sheet Material Safety Data Sheet

**STEL:** Short Term Exposure Limit

**TOG:** Canadian Transportation of Dangerous Goods Act & Regulations

**TLV:** Threshold Limit Values

**TWA:** Time Weighted Average

**WHMIS:** Workplace Hazardous Materials Identification System

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### DISCLAIMER

Information for this material safety data sheet was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of this supplier, it is assumed that users of this material have been fully trained accordingly to the mandatory requirements of GHS. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of, or reliance on, any information contained within this form.

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