

MATERIAL SAFETY DATA SHEET M.S.D.S.
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I: PRODUCT IDENTIFICATION INFORMATION

TRADENAME (as labeled): EARTHSAFE D-ONLY DEODORIZING DEGREASER
(Concentrated)
Chemical Name: Water-based cleaner
Chemical Family:
Formula: Proprietary
Synonyms:

EMERGENCY CONTACT: CHEMTREC 1-800-424-9300

MANUFACTURER'S NAME: NACCO/ NATIONAL RESEARCH & CHEMICAL
444 EAST GARDENA BLVD.
GARDENA, CA. 90248
PHONE: (310) 352-6999
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Date Prepared: January 2003

Department of Transportation: (Shipping Information)

Hazardous Classification: None Regulated

Shipping Name: Chemical N.O.S

Dot Class: 55

Packing Group:

UN/NA Number:

II: PHYSICAL PROPERTIES

Vapor Density (air = 1): >1

Specific Gravity (H₂O=1): 1.026

Solubility in Water: Complete

Odor: Slight Lemon Scent

Appearance: Yellow / Green liquid

Vapor Pressure (at 20°C): Negligible

Boiling Point/Range°F: Greater than 200°F

Evaporation Rate: Same as water

pH (of 1% solution): 12.40 (Concentrated)

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III: COMPOSITION INFORMATION

<u>COMPONENTS</u>	<u>CAS#</u>
DI.Water	7732-18-5
Cleaning Agent	2235-54-3
Dissolving Agent	1445-5-8
Emulsifiers	64972-19-8
Surfactant	132647-09-7

IV: POTENTIAL HEALTH HAZARD DATA

EFFECTS OF ACUTE OVER- EXPOSURE:

Eye Contact: Can cause irritation.

Skin Absorption: May cause irritation. Avoid prolonged or repeated contact.

Inhalation: Spraying or mist caused by using this product could cause irritation.

Skin Contact: Product may cause irritation with repeated long-term use.

Swallowing: Can and will cause nausea, dizziness and headache, irritating to mouth, throat and stomach.

Other Health Hazards: None known.

V: FIRST AID EMERGENCY PROCEDURES

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes and get medical attention.

Skin Contact: Flush with plenty of soap and water for at least 15 minutes. If irritation continues or develops contact a physician.

Inhalation: Immediately move to fresh air. If necessary give oxygen.

Swallowed: Immediately contact physician. If conscious, give large amounts of 2 large glasses of water. Never give anything by mouth to an unconscious person.

Other: None known.

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VI: FIRE AND EXPLOSION HAZARD DATA

Flash Point: Not a safety factor due to low volatility.

Flammable Limits: N/A

Lower:

Upper:

Extinguishing Media:

Water Spray: X

Foam: X

Carbon Dioxide: X

Dry Chemical: X

Special Fire Fighting Procedures: Use self-contained NIOSH approved breathing apparatus and protective clothing.

Unusual Fire/Explosion Hazard: Water run off from fire fighting maybe slippery and product could produce irritant fumes.

Other: None known

VII: REACTIVITY DATA

Stability:

Stable: X

Unstable:

Conditions to Avoid: Avoid high temperatures, heat, sparks and flames.

Incompatibility: Avoid strong oxidizing agents.

Hazardous combustion's

Or Decomposition Products: May produce carbon monoxide or carbon dioxide.

Hazardous Polymerization:

May Occur:

Will Not Occur: X

VIII: SPILL, LEAK AND DISPOSAL PROCEDURES

Steps to be taken: Contain spill by inorganic, non-combustible absorbent, such as, sand, pads, towels or inert material. Flush remaining area with plenty of water. Provide adequate ventilation.

Preparing waste for disposal: Small spills may be flushed down the sewer or drains with water. Material is inherently biodegradable. For large spills dike area and contain liquid by absorbing with sand or sawdust sweeping up compound and dispose in an approved landfill.

NOTE: DISPOSE OF ALL WASTE ACCORDING WITH FEDERAL, STATE AND LOCAL REGULATIONS

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IX: SPECIAL HANDLING INFORMATION

Respiratory Protection: None Required.

Ventilation: Use in well-ventilated area, Or fresh air.

Protective Gloves: Rubber or plastic, impervious gloves.

Eye Protection: Safety goggles should be worn in chemical handling.

Other clothing and Equipment: Apron or lab coat. Also safety shower and eye bath should be provided.

Work practices, hygienic requirements: Avoid unnecessary personal contact. Wash hands thoroughly with soap and water after handling.

Other handling and storage requirements: Store above 48°F and 85°F.
KEEP OUT OF REACH OF CHILDREN.

X: OTHER INFORMATION

HMIS RATINGS CHART:

HMIS:

Health:	1	Flammability:	0
Reactivity:	0	Personal Protection:	B

XI: REGULATORY INFORMATION

SARA TITLE III - SECTION 311/312:

N- Fire Hazard

N-Sudden release of pressure hazard

N-Reactivity hazard

N-Immediate health hazard (acute)

Y-Delayed health hazard (chronic)

SARA TITLE III - SECTION 302/304:

This product does not contain extremely hazardous substances at levels, which could require reporting.

SARA TITLE III = SECTION 313:

This product does not contain toxic chemicals at levels, which require reporting.

OZONE - DEPLETING CHEMICALS:

None

CERCLA REPORTABLE QUANTITY:

None

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TSCA STATUS:

All components of these products are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

OSHA REGULATIONS:

Do not apply to this material or it's components. At levels which require reporting.

CALIFORNIA PROPOSITION 65:

This product does not contain chemicals known to the State of California to cause cancer.

CALIFORNIA SCAQMO RULE 443.1:

VOC - not applicable.