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VERSION: 1

1. IDENTIFICATION

PRODUCT IDENTIFIER

PRODUCT NAME NDC-64

OTHER MEANS OF IDENTIFICATION

Product Code A37

Recommended Uses Neutral Disinfectant Cleaner
Restrictions on Use For Industrial and Institutional Use Only

SDS-SUPPLIER INFORMATION

SUPPLIER ADDRESS E-ZOIL Products, Inc.
DBA Emulso
2750 Kenmore Avenue
Tonawanda, NY 14150

EMERGENCY TELEPHONE NUMBER

COMPANY PHONE NUMBER (716) 854-2889
COMPANY FAX NUMBER (716) 854-2809
24-HOUR EMERGENCY TELEPHONE (ACCOUNT #8686)
NORTH AMERICA 1-800-633-8253
INTERNATIONAL PERS 1-801-629-0667

2. HAZARDS IDENTIFICATION

CLASSIFICATION

Acute toxicity - Oral Category 4
Skin corrosion/irritation Category 1
Serious eye damage/eye irritation Category 1

SIGNAL WORD Danger

HAZARD STATEMENTS



HAZARD STATEMENTS 1. Harmful if swallowed
2. Causes severe skin burns and eye damage

APPEARANCE Clear Liquid **PHYSICAL STATE** Liquid

PRECAUTIONARY STATEMENTS

PREVENTION	Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Do not breathe dust/fume/gas/mist/vapors/spray Wear protective gloves/protective clothing/eye protection/face protection
RESPONSE	Immediately call poison center or doctor/ physician.
IF SWALLOWED	Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth. Do NOT induce vomiting
IF IN EYES	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician
IF ON SKIN/HAIR	Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse
IF INHALED	Remove victim to fresh air and keep at rest in a position comfortable for breathing Immediately call a POISON CENTER or doctor/physician
IF EXPOSED/CONCERNED	Get medical advice/ attention.
STORAGE	Store locked-up. Keep away from children.
DISPOSAL	Dispose of contents/container to an approved waste disposal plant
HAZARDS NOT OTHERWISE CLASSIFIED (HNOC)	N/A
OTHER INFORMATION	Corrosive. Inhalation of vapors or mist may cause respiratory irritation. Keep out of reach of children. NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage

0.134% of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	WEIGHT - %
Water	7732-18-5	60-100
Dialkyl dimethyl ammonium chloride	68424-95-3	1-5
Alkyl dimethyl benzyl ammonium chloride	68424-85-1	1-5
Ethanol	64-17-5	1-5
Tetrasodium ethylenediaminetetraacetate	64-02-8	0.1-1
Nonylphenol polyoxyethylene	9016-45-9	0.1-1

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

DESCRIPTION OF FIRST AID MEASURES

GENERAL ADVICE	Provide this SDS to medical personnel for treatment.
EYE CONTACT	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN.
SKIN CONTACT	Take off immediately all contaminated clothing and shoes. Rinse with water or shower for at least 15 minutes. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN. Wash contaminated clothing before reuse.
INHALATION	Remove victim to fresh air and keep at rest in a position comfortable for breathing. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN.
INGESTION	Rinse mouth. Do NOT induce vomiting. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN. Never give anything by mouth to an unconscious person.

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

POTENTIAL ACUTE HEALTH EFFECTS

Most important symptoms and effects, both acute and delayed

SYMPTOMS	Harmful if swallowed. Causes severe skin burns and serious eye damage.
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NOTES TO PHYSICIAN Probable mucosal damage may contraindicate the use of gastric lavage.

5. FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA	Product does not support combustion, Use extinguishing agent suitable for type of surrounding fire
UNSUITABLE EXTINGUISHING MEDIA	None known
SPECIFIC HAZARDS ARISING FROM CHEMICAL	Dried product is capable of burning. Combustion products are toxic.
HAZARDOUS COMBUSTION PRODUCTS	May include Carbon monoxide Carbon dioxide and other toxic gases or vapors.

PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/ NIOSH (approved and equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

PERSONAL PRECAUTIONS Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

ENVIRONMENTAL PRECAUTIONS Do not rinse spill onto the ground, into storm sewers or bodies of water.

METHODS AND MATERIALS FOR CONTAMINATION AND CLEAN-UP

CONTAMINATION Prevent further leakage or spillage is safe to do so

CLEAN-UP Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

PROTECTIVE MEASURES Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Do not breathe dust/fume/gas/mist/vapor/spray. Do not eat, drink, or smoke when using this product. Use personal protection recommended in Section 8.

CONDITIONS FOR SAFE STORAGE (INCLUDING ANY INCOMPATIBILITIES)

STORAGE CONDITIONS Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep from freezing.

INCOMPATIBLE MATERIALS N/A

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethanol 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m3 (vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m3	IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m3

ENGINEERING CONTROLS: Provide good general ventilation. If work practices generate dust, fumes, gas, vapors or mists which expose workers to chemicals above the occupational exposure limits, local exhaust ventilation or other engineering controls should be considered. Eye wash stations and shower facilities should be readily accessible in areas where the product is handled.

INDIVIDUAL PROTECTION MEASURES

EYE/FACE PROTECTION	Wear approved safety goggles.
SKIN/BODY PROTECTION	Wear rubber or other chemical-resistant gloves.
RESPIRATORY PROTECTION	Not required with expected use. If occupational exposure limits are exceeded or respiratory irritation occurs, use of a NIOSH/MSHA approved respirator suitable for the use-conditions and chemicals in Section 3 should be considered.
GENERAL HYGIENE	Wash hands and any exposed skin thoroughly after handling. See 29 CFR 1910.132-138 for further guidance.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Liquid
APPEARANCE	Clear Liquid
COLOR	Clear
ODOR	Mild
ODOR THRESHOLD	Not determined
pH	6.0-7.0
MELTING POINT/FREEZING POINT	Not determined
BOILING POINT/BOILING RANGE	100 °C / 212 °F
FLASH POINT	> 100 °C / > 212 °F ASTM D56
EVAPORATION RATE	< 1 (Butyl acetate = 1)
FLAMMABILITY (SOLID, GAS)	Not determined
UPPER FLAMMABILITY LIMITS	Not determined
LOWER FLAMMABILITY LIMITS	Not determined
VAPOR PRESSURE	Not determined
SPECIFIC GRAVITY	1.0
RELATIVE DENSITY	Not determined
WATER SOLUBILITY	Soluble in water
PARTITION COEFFICIENT	Not determined
N-OCTANOL/ WATER	Not determined
AUTO-IGNITION TEMPERATURE	Not determined
DECOMPOSITION TEMPERATURE	Not determined
VISCOSITY	Not determined

10. STABILITY AND REACTIVITY

REACTIVITY	Not reactive under normal conditions
CHEMICAL STABILITY	Stable under recommended storage conditions
POSSIBILITY OF HAZARDOUS REACTIONS	None under normal processing
CONDITIONS TO AVOID	Keep out of reach of children. Extremes of temperature and direct sunlight.
INCOMPATIBLE MATERIALS	Strong oxidizing agents. Strong acids.
HAZARDOUS DECOMPOSITION PRODUCTS	May include carbon monoxide, carbon dioxide (CO ₂) and other toxic gases or vapors.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure.

EYE CONTACT	Pain, redness, swelling of the conjunctiva and tissue damage. Eye contact may cause permanent damage.
SKIN CONTACT	Pain, redness, blistering and possible chemical burn.
INHALATION	Nasal discomfort and coughing.
INGESTION	Damage or chemical burns to mouth, throat and stomach. Pain, nausea, vomiting and diarrhea.

COMPONENT INFORMATION

CHEMICAL NAME	ORAL LD50	DERMAL LD50	INHALATION LC50
Water 7732-18-5	> 90 mL/kg (Rat)	-	-
alkyl dimethyl benzyl ammonium chloride 68424-85-1	= 426 mg/kg (Rat)	-	-
ethanol 64-17-5	= 7060 mg/kg (Rat)	-	= 124.7 mg/L (Rat) 4 h
tetrasodium ethylenediaminetetraacetate 64-02-8	= 10 g/kg (Rat)	-	-
nonylphenol polyoxyethylene 9016-45-9	= 2000 mg/kg (Rat)	= 2000 mg/kg (Rabbit)	-

SYMPTOMS Please see section 4 of this SDS for symptoms.

CARCINOGENICITY No components present at 0.1% or greater are listed as to being carcinogens by ACGIH, IARC, NTP or OSHA.

NUMERICAL MEASURES OF TOXICITY-PRODUCT The following acute toxicity estimates (ATE) are calculated based on the GHS document.

ATEmix (oral)	1837 mg/kg
ATEmix (dermal)	5528 mg/kg ATEmix (inhalation-dust/mist):
ATEmix (oral)	1837 mg/kg

12. ECOLOGICAL INFORMATION

CHEMICAL NAME	ALGAE/ AQUATIC PLANTS	ECOTOXICITY	
		FISH	TOXIC TO MICROORGANISMS
			An environmental hazard cannot be excluded in the event of unprofessional handling or disposal
Ethanol 64-17-5		12.0 - 16.0: 96 h Oncorhynchus mykiss mL/L LC50 static 100: 96 h Pimephales promelas mg/L LC50 static 13400 - 15100: 96 h Pimephales promelas mg/L LC50 flow-through 41: 96 h Lepomis macrochirus mg/L LC50 static 59.8: 96 h Pimephales promelas mg/L LC50 static	9268 - 14221: 48 h Daphnia magna mg/L LC50 10800: 24 h Daphnia magna mg/L EC50 2: 48 h Daphnia magna mg/L EC50 Static
	Tetrasodium ethylenediaminetetraacetate 64-02-8	1.01: 72 h Desmodesmus subspicatus mg/L EC50	610: 24 h Daphnia magna mg/L EC50
PERSISTENCE AND DEGRADABILITY		Not determined	
BIOACCUMULATION		Not determined	
MOBILITY		Not determined	
OTHER ADVERSE EFFECTS		Not determined	

13. DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS

WASTE DISPOSAL	Dispose of in accordance with federal, state and local regulations.
CONTAMINATED PACKAGING	Dispose of in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT

Not Regulated

IATA

Not Regulated

IMDG

Not Regulated

15. REGULATORY INFORMATION

LEGEND

TSCA	United States Toxic Substances Control Act Section 8(B) Inventory
DSL/NDL	Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS	European Inventory of Existing/Notified Chemical Substances
ENCS	Japan Existing and New Chemical Substances
IECSC	China Inventory of Existing Chemical Substances
KECL	Korean Existing and Evaluated Chemical Substances
PICCS	Philippines Inventory of Chemicals and Chemical Substances

U.S. FEDERAL REGULATIONS

TSCA Status (Toxic Substance Control Act Section 8(b) Inventory) All chemical substances in this product are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

SARA 313

This product does not contain listed substances above the "de minimus" level

SARA 311/312 HAZARD CATEGORIES

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CALIFORNIA PROPOSITION 65

This product contains the following Proposition 65 chemicals

Chemical Name	California Proposition 65
Ethanol	Carcinogen
64-17-5	Developmental
Acetaldehyde	Carcinogen
75-07-0	

WARNING: This product contains a chemical known to the State of California to cause cancer.

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

EPA Pesticide Registration Number: 1839-169-19

EPA Statement

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

EPA Pesticide Label

Danger. Keep out of reach of children. Corrosive. Causes irreversible eye damage and skin burns. Do not get in eyes, on skin or on clothing. May be fatal if absorbed through the skin. Harmful if swallowed. Wear goggles or face shield, rubber gloves, and protective clothing. Remove contaminated clothing and wash before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

16. OTHER INFORMATION

NFPA	HEALTH HAZARDS	FLAMMABILITY	INSTABILITY	SPECIAL HAZARDS
	3	0	0	0
HMIS	HEALTH HAZARDS	FLAMMABILITY	PHYSICAL HAZARDS	PERSONAL PROTECTION
	3	0	0	0

DISCLAIMER

The information provided in this Safety Data Sheet is correct to the best of our knowledge at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

END OF SAFETY DATA SHEET