

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name DUO POWER
Recommended use Cleaning agent
Information on Manufacturer
 CHEMSEARCH DIV. OF NCH CORP.
 BOX 152170
 IRVING, TX 75015

Product Code 0095
Chemical nature Mixture
Emergency Telephone Number
 CHEMTREC 1-800-424-9300

2. HAZARDS IDENTIFICATION

Emergency Overview

WARNING

Severe skin irritation
 Severe eye irritation
 Irritating to respiratory system
 Harmful if swallowed

Color Green

Physical State Liquid

Odor None

Potential Health Effects**Principle Route of Exposure**

Skin contact, Eye contact.

Primary Routes of Entry

None known

Acute Effects**Eyes**

Severe irritation.

Skin

Severe irritation.

Inhalation

Causes respiratory tract irritation.

Ingestion

Irritating to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic Toxicity

None known.

Target Organ Effects

Skin, Eyes, Respiratory system.

Aggravated Medical Conditions

Skin disorders, Respiratory disorders.

Potential Environmental Effects

See Section 12 for additional Ecological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No
Sodium dodecylbenzenesulfonate	25155-30-0
Sodium tripolyphosphate	7758-29-4
Sodium xylene sulfonate	1300-72-7
Sodium hydroxide	1310-73-2

4. FIRST AID MEASURES

General Advice

Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists.

Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately.

Skin Contact

Remove immediately all contaminated clothing. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately. Wash contaminated clothing before re-use.

Inhalation

If inhaled, remove to fresh air. Get medical attention if symptoms occur.

Ingestion

Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.

Notes to Physician

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash Point

Does not flash

Method

Not applicable

Autoignition Temperature No information available.**Flammability Limits in Air %** Not applicable.**Upper** No data available**Lower** No data available**Suitable Extinguishing Media**Foam. Carbon dioxide (CO₂). Dry chemical. Water spray.**Specific hazards arising from the chemical**

Material can create slippery conditions.

Protective Equipment and Precautions for Firefighters

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

NFPA**Health** 2**Flammability** 1**Instability** 0**HMIS****Health** 2**Flammability** 1**Instability** 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Use personal protective equipment. Prevent further leakage or spillage if safe to do so.

Environmental Precautions

Do not flush into surface water or sanitary sewer system.

Methods for Containment

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

Methods for Cleaning Up

Pick up and transfer to properly labeled containers.

Neutralizing Agent

Acetic acid, diluted.

7. HANDLING AND STORAGE

Handling

Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists.

Storage

Store in original container. Keep containers tightly closed in a cool, well-ventilated place. Freezing will affect the physical condition but will not damage the material. Thaw and mix before using.

Storage Temperature**Minimum** 35 °F / 2 °C**Maximum**

120 °F / 49 °C

Storage Conditions Indoor X Outdoor X Heated Refrigerated

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH
Sodium dodecylbenzenesulfonate	No data available	No data available	No data available
Sodium tripolyphosphate	No data available	No data available	No data available
Sodium xylene sulfonate	No data available	No data available	No data available
Sodium hydroxide	Ceiling: 2 mg/m ³	TWA: 2 mg/m ³	IDLH: 10 mg/m ³ Ceiling: 2 mg/m ³

Engineering Measures

Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/Face Protection

Tightly fitting safety goggles.

Skin Protection

Wear suitable protective clothing. Impervious gloves.

Respiratory Protection

In case of insufficient ventilation wear suitable respiratory equipment. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

General Hygiene Considerations

Ensure that eyewash stations and safety showers are close to the workstation location. Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid	Viscosity	Semi-viscous
Color	Green	Odor	None
Appearance	Transparent	pH	12.4
Specific Gravity	1.1	Evaporation Rate	0.45 (Butyl acetate=1)
Percent Volatile (Volume)	76.5	VOC Content (%)	0
VOC Content (g/L)	0	Vapor Pressure	15.5 mmHg @ 70°F
Vapor Density	0.6	Solubility	Soluble
Boiling Point/Range	210 °F / 99 °C		

10. STABILITY AND REACTIVITY

Chemical Stability

Stable. Hazardous polymerization does not occur.

Conditions to Avoid

None known

Incompatible Products

Strong oxidizing agents, Acids.

Hazardous Decomposition Products

Carbon oxides, Sulfur oxides, Oxides of phosphorus, Phosphorus compounds, Hydrogen sulfide and smoke, Sodium oxides.

Possibility of Hazardous Reactions

None under normal processing

11. TOXICOLOGICAL INFORMATION

Product Information

No information available.

Component Information

Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Sodium dodecylbenzenesulfonate	438 mg/kg (Rat)	no data available	no data available	no data available	no data available
Sodium tripolyphosphate	3100 mg/kg (Rat)	7940 mg/kg (Rabbit)	no data available	no data available	no data available
Sodium xylene sulfonate	7200 mg/kg (Rat)	no data available	no data available	no data available	no data available
Sodium hydroxide	no data available	1350 mg/kg (Rabbit)	no data available	no data available	no data available

Chronic Toxicity

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Sodium dodecylbenzenesulfonate	no data available	no data available	no data available	no data available	no data available
Sodium tripolyphosphate	no data available	no data available	no data available	no data available	Spleen, kidneys
Sodium xylene sulfonate	no data available	no data available	no data available	no data available	no data available
Sodium hydroxide	no data available	no data available	no data available	no data available	eyes, respiratory system, skin

Carcinogenicity

There are no known carcinogenic chemicals in this product.

Component	ACGIH	IARC	NTP	OSHA	Other
Sodium dodecylbenzenesulfonate	not applicable	not applicable	not applicable	not applicable	not applicable
Sodium tripolyphosphate	not applicable	not applicable	not applicable	not applicable	not applicable
Sodium xylene sulfonate	not applicable	not applicable	not applicable	not applicable	not applicable
Sodium hydroxide	not applicable	not applicable	not applicable	not applicable	not applicable

12. ECOLOGICAL INFORMATION

Product Information

No information available.

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
Sodium dodecylbenzenesulfonate	no data available	LC50 = 10.8 mg/L Oncorhynchus mykiss 96 h	no data available	no data available	N/A
Sodium tripolyphosphate	no data available	LC50 = 1650 mg/L Leuciscus idus 48 h	no data available	no data available	N/A
Sodium xylene sulfonate	no data available	no data available	no data available	no data available	N/A
Sodium hydroxide	no data available	LC50 = 45.4 mg/L Oncorhynchus mykiss 96 h	no data available	no data available	N/A

Persistence and Degradability

No information available.

Bioaccumulation

No information available.

Mobility

No information available.

13. DISPOSAL CONSIDERATIONS

Product Disposal Dispose of in accordance with local regulations.
Container Disposal Empty containers should be taken for local recycling, recovery, or waste disposal.

14. TRANSPORT INFORMATION

DOT Not regulated
 TDG Not regulated
 ICAO Not regulated
 IATA Not regulated
 IMDG/IMO Not regulated

15. REGULATORY INFORMATION

Inventories
 TSCA Complies
 DSL Complies

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40n of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Chronic Health Hazard	Fire Hazard	Sudden Release of Pressure Hazard	Reactive Hazard
Yes	No	No	No	No

CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
Sodium dodecylbenzenesulfonate	Not applicable	Not applicable
Sodium tripolyphosphate	Not applicable	Not applicable
Sodium xylene sulfonate	Not applicable	Not applicable
Sodium hydroxide	Not applicable	Not applicable

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

D2B Toxic materials



16. OTHER INFORMATION

Prepared By Dan Hollas
Supersedes Date 09/16/2008
Issuing Date 03/02/2011
Reason for Revision No information available.
Glossary No information available.
List of References. No information available.

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