# Safety Data Sheet: DUO-SPLIT

Supercedes Date 08/10/2010 Issuing Date 02/28/2013

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name DUO-SPLIT
Recommended use Water based degreaser
Information on Manufacturer
CHEMSEARCH FE DIV. OF NCH CORP.

BOX 152170 IRVING, TX 75015 Product Code 0230 Chemical nature Aqueous solution Emergency Telephone Number CHEMTREC<sup>®</sup> 800-424-9300 Telephone inquiry 972-579-2477

#### 2. HAZARD IDENTIFICATION

 Color Green
 Physical State Liquid
 Odor Slight

Category 2A

Category 1

Category 2

Category 2

#### **GHS**

#### Classification

Physical Hazards

None

Health Hazard

Serious Eye Damage/Eye Irritation

Skin Sensitization

Reproductive Toxicity

Carcinogenicity

Other hazards

None

Labeling Signal Word WARNING



## Hazard Statements

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation H351 - Suspected of causing cancer

H361 - Suspected of damaging fertility or the unborn child

## Precautionary Statements

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

P261 - Avoid breathing vapor or mist.

P264 - Wash face, hands and any exposed skin thoroughly after handling.

P272 - Contaminated work clothing should not be allowed out of the workplace

P302+ P352 - IF ON SKIN: Wash with plenty of soap and water

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

P363 - Wash contaminated clothing before reuse

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 - If eye irritation persists: Get medical advice/attention.

 $\ensuremath{\mathsf{P501}}$  - Dispose of contents/container to an approved waste disposal plant.

13 % of the mixture consists of ingredient(s) of unknown toxicity

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Tallow alkylamine ethoxylate surfactant	61791-26-2	10-30
Polyethylene glycol phenyl ether phosphate	39464-70-5	10-30
Sodium tripolyphosphate	7758-29-4	1-5
Diethanolamine	111-42-2	1-5

## 4. FIRST AID MEASURES

General advice Eye Contact Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists. Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if irritation

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develops and persists.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. Remove contaminated clothing

and shoes. Get medical attention if irritation develops and persists. Wash contaminated clothing

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 if symptoms occur.

Notes to physician May cause sensitization of susceptible persons.

### 5. FIRE-FIGHTING MEASURES

Flash Point > 201 °F / > 94 °C Method Seta closed cup

Upper No data available Lower No data available

Suitable Extinguishing Media

Water spray. Foam. Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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 1 Flammability 1 Instability 0 **HMIS** Health 1 Flammability 1 Instability 0

#### 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions** Use personal protective equipment. Prevent further leakage or spillage if safe to do so. Material can

create slippery conditions.

**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

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust)

**Neutralizing Agent** Not applicable.

### 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 dry, cool and 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 Refrigerated **Storage Conditions** Indoor Χ Outdoor Heated

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Guidelines** 

Component	ACGIH TLV	OSHA PEL	NIOSH
Tallow alkylamine ethoxylate surfactant	No data available	No data available	No data available
Polyethylene glycol phenyl ether phosphate	No data available	No data available	No data available
Sodium tripolyphosphate	No data available	No data available	No data available
Diethanolamine	TWA: 1 mg/m <sup>3</sup>	No data available	TWA: 3 ppm TWA: 15 mg/m <sup>3</sup>
	Skin		

Ensure adequate ventilation, especially in confined areas.

**Engineering Measures** 

**Personal Protective Equipment** 

**Eve/Face Protection** 

Safety glasses with side-shields.

Skin Protection

Wear suitable protective clothing, Impervious gloves.

**Respiratory Protection** 

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

**General Hygiene Considerations** 

Wear protective gloves/clothing. 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 Non viscous Color Green Odor Slight **Odor Threshold** Not applicable **Appearance** Transparent Specific Gravity 1.075 pН 7.5

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**Evaporation Rate** 0.41 (Butyl acetate=1)

**VOC Content (%)** 

**Vapor Pressure** 15.6 mmHg @ 70°F Solubility Completely soluble Melting Point/Range No data available Boiling Point/Range 212 °F / 100 °C **Flash Point** > 201 °F/> 94 °C

**Autoignition Temperature** No information available.

Upper No data available Lower No data available

Percent Volatile (Volume) 71.1 VOC Content (g/L)

Vapor Density 0.6 (Air = 1.0)n-Octanol/Water Partition No data available **Decomposition Temperature** No data available Flammability (solid, gas) No data available Method Seta closed cup

#### 10. STABILITY AND REACTIVITY

**Chemical Stability Conditions to Avoid** 

**Incompatible Products** 

**Hazardous Decomposition Products** 

**Possibility of Hazardous Reactions** 

Stable. Hazardous polymerization does not occur.

None known

Strong oxidizing agents, Strong acids, Reducing agents. Carbon oxides, Nitrogen oxides (NOx), Oxides of phosphorus,

Phosphorus compounds. None under normal processing

### 11. TOXICOLOGICAL INFORMATION

#### **Product Information**

The following values are calculated based on chapter 3.1 of the GHS document (Rev. 3, 2009):

Oral LD50 No information available **Dermal LD50** No information available

Inhalation LC50

Gas No information available Mist No information available No information available Vapor

**Principle Route of Exposure** Skin contact, Eye contact, Inhalation. Inhalation, Skin Absorption.

**Primary Routes of Entry** 

**Acute Effects** 

Causes eye irritation.

Eyes Skin May cause skin irritation. May cause allergic skin reaction.

Inhalation May cause irritation of respiratory tract. Inhalation may cause central nervous system effects. May

cause central nervous system depression. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Chronic Toxicity** Liver and kidney injuries may occur. May cause sensitization by skin contact. Contains a known or

suspected reproductive toxin. Contains a known or suspected carcinogen.

**Target Organ Effects** 

**Aggravated Medical Conditions** 

Respiratory system, Skin, Liver, Kidney, Central nervous system, Spleen, Testes, Immune system. Respiratory disorders, Skin disorders, Liver disorders, Kidney disorders, Neurological disorders.

Component Information

**Acute Toxicity** 

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Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Tallow alkylamine ethoxylate surfactant	= 620 mg/kg ( Rat )	> 10 g/kg ( Rat )	no data available	no data available	no data available
Polyethylene glycol phenyl ether phosphate	no data available	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
Diethanolamine	= 620 μL/kg ( Rat )	= 7640 μL/kg ( Rabbit )	no data available	no data available	no data available

**Chronic Toxicity** 

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Tallow alkylamine ethoxylate surfactant	no data available	Skin sensitization	no data available	no data available	Immune system
Polyethylene glycol phenyl ether phosphate	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
Diethanolamine	no data available	Skin sensitization	no data available	Х	eyes, respiratory system, skin, CNS, liver, blood, testes, heart, kidney, immune system

Carcinogenicity

Component	ACGIH	IARC	NTP	OSHA	Other
Tallow alkylamine ethoxylate surfactant	not applicable				

Polyethylene glycol phenyl ether phosphate	not applicable				
Sodium tripolyphosphate	not applicable				
Diethanolamine	A3	Group 2B	not applicable	Х	not applicable

## 12. ECOLOGICAL INFORMATION

Product Information

No information available.

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
Tallow alkylamine ethoxylate surfactant	no data available	no data available	no data available	no data available	N/A
Polyethylene glycol phenyl ether phosphate	no data available	no data available	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
Diethanolamine	EC50 = 7.8 mg/L Desmodesmus subspicatus 72 h EC50 2.1 - 2.3 mg/L Pseudokirchneriella subcapitata 96 h	LC50 4460 - 4980 mg/L Pimephales promelas 96 h LC50 1200 - 1580 mg/L Pimephales promelas 96 h LC50 600 - 1000 mg/L Lepomis macrochirus 96 h	EC50 = 73 mg/L 5 min EC50 > 16 mg/L 16 h	EC50= 55 mg/L 48 h	-2.18

Persistence and Degradability

Bioaccumulation Mobility No information available. No information available. 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 contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Component	CAS-No	Weight %	SARA 313 - Threshold Values
Diethanolamine	111-42-2	1-5	1.0

SARA 311/312 Hazardous Categorization

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

Hazardous Substances RQs	CERCLA EHS RQs
Not applicable	Not applicable
Not applicable	Not applicable
Not applicable	Not applicable
	Not applicable Not applicable

Diethanolamine	100 lb	Not applicable
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#### 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, D2A Very toxic materials.



### 16. OTHER INFORMATION

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Reason for RevisionNo information available.GlossaryNo information available.List of References.No information available.

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