



## Force Citrus

N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine		< 1
CAS-No.: 2372-82-9	EC No.:	
Classification (EC 1272/2008) Not classified.	Classification (67/548/EEC) Xn;R48/22. C;R34. N;R50.	
NONIONIC SURFACTANT C9-C11 alcohol + 8 EO		5-10%
CAS-No.: 68439-46-3	EC No.:	
Classification (EC 1272/2008) Not classified.	Classification (67/548/EEC) Xn;R22. Xi;R41.	
Perfume		< 1
CAS-No.:	EC No.:	
Classification (EC 1272/2008) Not classified.	Classification (67/548/EEC) Xn;R65. Xi;R36/38. N;R51/53. R43.	
SODIUM SILICATE		1-5%
CAS-No.: 1344-09-8	EC No.: 215-687-4	
Classification (EC 1272/2008) Not classified.	Classification (67/548/EEC) Xi;R38,R41.	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

### SECTION 4: FIRST AID MEASURES

#### **4.1. Description of first aid measures**

##### Inhalation

Remove victim immediately from source of exposure. Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

##### Ingestion

Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Rinse nose, mouth and throat with water. Drink plenty of water. Get medical attention immediately!

##### Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.

##### Eye contact

Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

#### **4.2. Most important symptoms and effects, both acute and delayed**

##### Inhalation

Upper respiratory irritation.

##### Ingestion

Nausea, vomiting.

##### Skin contact

Prolonged skin contact may cause redness and irritation.

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Eye contact

May cause temporary eye irritation.

## **4.3. Indication of any immediate medical attention and special treatment needed**

Treat Symptomatically.

## **SECTION 5: FIREFIGHTING MEASURES**

### **5.1. Extinguishing media**

Extinguishing media

Extinguish with foam, carbon dioxide, dry powder or water fog.

### **5.2. Special hazards arising from the substance or mixture**

Hazardous combustion products

None under normal conditions.

### **5.3. Advice for firefighters**

Special Fire Fighting Procedures

Use supplied air respirator if product is involved in a fire.

Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### **6.1. Personal precautions, protective equipment and emergency procedures**

Wear protective clothing as described in Section 8 of this safety data sheet.

### **6.2. Environmental precautions**

Do not discharge into drains, water courses or onto the ground.

### **6.3. Methods and material for containment and cleaning up**

Absorb in vermiculite, dry sand or earth and place into containers.

### **6.4. Reference to other sections**

Wear protective clothing as described in Section 8 of this safety data sheet.

## **SECTION 7: HANDLING AND STORAGE**

### **7.1. Precautions for safe handling**

Read and follow manufacturer's recommendations.

### **7.2. Conditions for safe storage, including any incompatibilities**

Store in tightly closed original container in a dry and cool place.

Storage Class

Chemical storage.

### **7.3. Specific end use(s)**

The identified uses for this product are detailed in Section 1.2.

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **8.1. Control parameters**

Ingredient Comments

No exposure limits noted for ingredient(s).

### **8.2. Exposure controls**

Protective equipment



#### Respiratory equipment

Suitable respiratory protection must be used at high concentrations.

#### Hand protection

Protective gloves are recommended.

#### Eye protection

Wear approved safety goggles.

#### Other Protection

Wear appropriate clothing to prevent any possibility of skin contact.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

Appearance Opaque Mobile Liquid

Colour Green.

Odour Lemon.

Solubility Soluble in water.

Initial boiling point and boiling range (°C)

Not determined.

Melting point (°C)

Not determined.

Relative density

Not determined.

Bulk Density 1.08 kg/l

Vapour density (air=1)

Not determined.

Vapour pressure

Not determined.

Evaporation rate

Not determined.

Evaporation Factor

Not determined.

pH-Value, Conc. Solution 13.0

pH-Value, Diluted Solution

Not determined.

Viscosity

Not determined.

Solubility Value (G/100G H<sub>2</sub>O@20°C)

Not determined.

Decomposition temperature (°C)

Not determined.

Odour Threshold, Lower

Not determined.

Odour Threshold, Upper

Not determined.

Flash point (°C)

Not determined.

Auto Ignition Temperature (°C)

Not determined.

Flammability Limit - Lower(%)

Not determined.

Flammability Limit - Upper(%)

Not determined.

Partition Coefficient

(N-Octanol/Water)

Not determined.

Explosive properties  
Not determined.  
Other Flammability  
Not determined.  
Oxidising properties  
Not determined.

**9.2. Other information**

Refractive Index  
Not known.

**SECTION 10: STABILITY AND REACTIVITY**

**10.1. Reactivity**

There are no known reactivity hazards associated with this product.

**10.2. Chemical stability**

Stable under normal temperature conditions and recommended use.

**10.3. Possibility of hazardous reactions**

Not known.

**10.4. Conditions to avoid**

Avoid frost. Avoid excessive heat for prolonged periods of time.

**10.5. Incompatible materials**

Materials To Avoid  
No incompatible groups noted.

**10.6. Hazardous decomposition products**

None under normal conditions.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1. Information on toxicological effects**

Acute toxicity:

Acute Toxicity (Oral LD50)  
Not determined.  
Acute Toxicity (Dermal LD50)  
Not determined.  
Acute Toxicity (Inhalation LC50)  
Not determined.

Skin Corrosion/Irritation:

Extreme pH.  
≥ 11.5  
Skin Corrosivity Report Undertaken - 3188/0001  
Non Corrosive to skin.

Respiratory or skin sensitisation:

Respiratory sensitisation  
Not determined.  
Skin sensitisation  
Not determined.

Germ cell mutagenicity:

Genotoxicity - In Vitro  
Not determined.  
Genotoxicity - In Vivo  
Not determined.

Carcinogenicity:

Carcinogenicity  
Not determined.

Reproductive Toxicity:

Reproductive Toxicity - Fertility  
Not determined.  
Reproductive Toxicity - Development  
Not determined.

Specific target organ toxicity - single exposure:

STOT - Single exposure  
Not determined.

Specific target organ toxicity - repeated exposure:

STOT - Repeated exposure  
Not determined.

Aspiration hazard:

Viscosity  
Not determined.

Inhalation  
May cause irritation to the respiratory system.

Ingestion  
May cause stomach pain or vomiting.

Skin contact  
May cause defatting of the skin, but is not an irritant.

Eye contact  
May cause severe irritation to eyes.

Health Warnings  
No specific health warnings noted.  
Target Organs  
No specific target organs noted

**SECTION 12: ECOLOGICAL INFORMATION**

Ecotoxicity  
The product is not expected to be hazardous to the environment.

**12.1. Toxicity**

Acute Fish Toxicity  
Not considered toxic to fish.

**12.2. Persistence and degradability**

Degradability  
The product is biodegradable.

**12.3. Bioaccumulative potential**

Bioaccumulative potential  
The product does not contain any substances expected to be bioaccumulating.  
Partition coefficient  
Not determined.

**12.4. Mobility in soil**

Mobility:  
The product is soluble in water.

**12.5. Results of PBT and vPvB assessment**

This product does not contain any PBT or vPvB substances.

**12.6. Other adverse effects**

Not determined.

**SECTION 13: DISPOSAL CONSIDERATIONS**

General information

Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.

**13.1. Waste treatment methods**

Dispose of waste and residues in accordance with local authority requirements.

**SECTION 14: TRANSPORT INFORMATION**

General

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

**14.1. UN number**

No information required.

**14.2. UN proper shipping name**

No information required.

**14.3. Transport hazard class(es)**

No information required.

**14.4. Packing group**

No information required.

**14.5. Environmental hazards**

Environmentally Hazardous Substance/Marine Pollutant

No.

**14.6. Special precautions for user**

No information required.

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

No information required.

**SECTION 15: REGULATORY INFORMATION**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Uk Regulatory References

The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments. Detergents Regulation (EC) No 648/2004

EU Legislation

Detergents Regulations (EC) No 648/2004 REGULATION (EU) No 528/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 22 May 2012 concerning the making available on the market and use of biocidal products.

**15.2. Chemical Safety Assessment**

No chemical safety assessment has been carried out.

**SECTION 16: OTHER INFORMATION**

Issued By

Health & Safety Officer

Revision Date

22/05/2013

Revision

1

## Force Citrus

Date	5/2/2010
Risk Phrases In Full	
R34	Causes burns.
R22	Harmful if swallowed.
R48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed.
R65	Harmful: may cause lung damage if swallowed.
R36/38	Irritating to eyes and skin.
R36	Irritating to eyes.
R38	Irritating to skin.
R43	May cause sensitisation by skin contact.
R41	Risk of serious damage to eyes.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R50	Very toxic to aquatic organisms.
Hazard Statements In Full	
H319	Causes serious eye irritation.