

Safety Data Sheet 1690-Q according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 03/23/2017 Revision date: 05/06/2015

SECTION 1: Identification	
1.1. Identification	
Product form	: Mixture
Product name	: ORANGE APPEAL
Product code	: 1690-Q
1.2. Relevant identified uses of the sub	ostance or mixture and uses advised against
Use of the substance/mixture	: Degreasing agent
1.3. Details of the supplier of the safet	y data sheet
BETA TECHNOLOGY, INC. P.O. Box 218686 HOUSTON, TX 77218-8686 T 281-647-9700 - F 281-647-9790	
1.4. Emergency telephone number	
Emergency number	: INFOTRAC 800-535-5053
SECTION 2: Hazard(s) identification	n
2.1. Classification of the substance or	
GHS-US classification	
Skin corrosion/irritation, Category 2	Causes skin irritation
Serious eye damage/eye irritation, Category 1	Causes serious eye damage
Sensitisation — Skin, Category 1	May cause an allergic skin reaction
	,
2.2. Label elements	
GHS-US labelling	
Hazard pictograms (GHS-US)	: GHS07
Signal word (GHS-US)	: Warning
Contains	: EDTA; tetrasodium ethylenediaminetetracetate; D-limonene; disodium metasilicate,
Hazard statements (GHS-US)	pentahydrate : Causes skin irritation May cause an allergic skin reaction Causes serious eye damage
Precautionary statements (GHS-US)	 Avoid breathing vapours, spray, mist Wash hands thoroughly after handling Contaminated work clothing must not be allowed out of the workplace Wear eye protection, protective gloves If on skin: Wash with plenty of water If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a doctor Specific treatment (see first aid section on this label. on this label) If skin irritation or rash occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse Dispose of contents/container to an approved waste disposal plant

2.3. Other hazards

No additional information available

Unknown acute toxicity (GHS US) 2.4.

Not applicable

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SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. **Mixture GHS-US** classification Name **Product identifier** % Flam. Liq. 3, H226 (CAS No) 5989-27-5 D-limonene 4 - 6 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Skin Corr. 1B, H314 (CAS No) 10213-79-3 4 - 6 disodium metasilicate, pentahydrate STOT SE 3, H335 Acute Tox. 4 (Oral), H302 EDTA; tetrasodium ethylenediaminetetracetate (CAS No) 64-02-8 2 - 4 Eye Dam. 1, H318 (CAS No) 1300-72-7 Skin Irrit. 2, H315 sodium xylenesulfonate 2 - 3 STOT SE 3, H335 Eye Irrit. 2A, H319 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 TKPP tetrapotassium pyrophosphate, anhydrous (CAS No) 7320-34-5 0.5 - 1.5

Full text of H-statements: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	 Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	Allow breathing of fresh air. Allow the victim to rest.
First-aid measures after skin contact	Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of soap and water. Wash contaminated clothing before reuse. Specific treatment (see Wash immediately with lots of water on this label). If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	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.
First-aid measures after ingestion	Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
4.2. Most important symptoms and effects	s, both acute and delayed
Symptoms/injuries after inhalation	May cause an allergic skin reaction.
Symptoms/injuries after skin contact	Causes skin irritation.
Symptoms/injuries after eye contact	Causes serious eye damage.
4.3. Indication of any immediate medical a	ttention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.			
Unsuitable extinguishing media	: Do not use a heavy water stream.			
5.2. Special hazards arising from the	2. Special hazards arising from the substance or mixture			
Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.			
5.3. Advice for firefighters				
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.			
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.			
SECTION 6: Accidental release measures				
6.1. Personal precautions, protective equipment and emergency procedures				
6.1.1. For non-emergency personnel				
Emergency procedures	: Evacuate unnecessary personnel.			

6.1.2. For emergency respondersProtective equipment: Equip cleanup crew with proper protection.Emergency procedures: Ventilate area.

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6.2. **Environmental precautions** Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Methods and material for containment and cleaning up 6.3. Methods for cleaning up

: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. **Reference to other sections**

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	: Handle empty containers with care because residual vapours are flammable.
Precautions for safe handling	Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. No open flames. No smoking. Take precautionary measures against static discharge. Avoid breathing spray, mist, vapours.
Hygiene measures	: Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage, includ	ing any incompatibilities
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Heat sources. Keep container tightly closed.
Incompatible products	: Strong bases. Strong acids.
Incompatible materials	: Sources of ignition. Direct sunlight. Heat sources.

SECTION 8: Exposure controls/personal protection

Control parameters 8.1

EDTA; tetrasodium ethylenediaminetetracetate (64-02-8)
Not applicable
D-limonene (5989-27-5)
Not applicable
TKPP tetrapotassium pyrophosphate, anhydrous (7320-34-5)
Not applicable
sodium xylenesulfonate (1300-72-7)
Not applicable
disodium metasilicate, pentahydrate (10213-79-3)
Not applicable

Exposure controls 8.2.

Personal protective equipment

: Safety glasses. Gloves.



•	vvear	pr	otectiv	e gioves.

- Chemical goggles or safety glasses.
- ÷ Wear suitable protective clothing.
 - Wear appropriate mask. :
- Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties Information on basic physical and chemical properties 9.1. Physical state : Liquid : Orange Colour

Hand protection Eye protection

Skin and body protection

Respiratory protection

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Odour	: Citrus fruits
Odour threshold	: No data available
рН	: 12 - 13
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Vapour pressure	: No data available
Relative density	: No data available
Relative vapour density at 20 °C	: No data available
Solubility	: Water: Solubility in water of component(s) of the mixture : • TALL OIL fatty acids: 0.0009 g/100ml • EDTA; tetrasodium ethylenediaminetetracetate: 103 g/100ml • nonylphenoxypoly(ethyleneoxy)ethanol: soluble • TSP trisodium orthophosphate, dodecahydrate: 12 g/100ml • butyl glycolether: Complete • D-limonene: insoluble • TKPP tetrapotassium pyrophosphate, anhydrous: 187 g/100ml • disodium metasilicate, pentahydrate: 17.5 g/100ml
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

9.2. Other information

No additional information available

SECTIO	DN 10: Stability and reactivity				
10.1.	Reactivity				
The prod	The product is non-reactive under normal conditions of use, storage and transport.				
10.2.	Chemical stability				
Stable un	der normal conditions.				
10.3.	Possibility of hazardous reactions				
Not estab	Not established.				
10.4.	Conditions to avoid				
Direct sur	nlight. Extremely high or low temperatures. Open flame. Overheating. Heat.				
10.5.	Incompatible materials				
Strong ac	Strong acids. Strong bases.				
10.6.	Hazardous decomposition products				

Carbon monoxide. Carbon dioxide. May release flammable gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

: Not classified

EDTA; tetrasodium ethylenediaminetetracetate (64-02-8)		
LD50 oral rat	> 2000 mg/kg (Rat)	
ATE US (oral)	500.000 mg/kg bodyweight	

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LD50 oral rat 4400 mg/kg bodyweight (Rat; OECD 423: Acute Oral Toxicity – Acute Toxic Class Method; Literature study; > 2000 mg/kg bodyweight; Rat; Read-across) LD50 dermal rabbit > 5000 mg/kg bodyweight (Rabbit; Weight of evidence; Equivalent or similar to OECD 402) ATE US (oral) 4400.000 mg/kg bodyweight TKPP tetrapotassium pyrophosphate, anhydrum (7320-34-5) 1050 dermal rabbit LD50 dermal rabbit > 4640 mg/kg (Rabbit) Skin corrosion/irritation : Causes skin irritation. pH: 12 - 13 Serious eye damage/irritation : Causes serious eye damage. pH: 12 - 13 Respiratory or skin sensitisation : May cause an allergic skin reaction. Germ cell mutagenicity : Not classified D-limonene (5989-27-5) : Not classified IARC group 3 - Not classified Reproductive toxicity : Not classified Specific target organ toxicity (single exposure) : Not classified
LD50 dermal rabbit> 5000 mg/kg bodyweight (Rabbit; Weight of evidence; Equivalent or similar to OECD 402)ATE US (oral)4400.000 mg/kg bodyweightTKPP tetrapotassium pyrophosphate, anhydrout (7320-34-5)LD50 dermal rabbit> 4640 mg/kg (Rabbit)Skin corrosion/irritation: Causes skin irritation. pH: 12 - 13Serious eye damage/irritation: Causes serious eye damage. pH: 12 - 13Respiratory or skin sensitisation: May cause an allergic skin reaction.Germ cell mutagenicity: Not classifiedD-limonene (5989-27-5)IARC group3 - Not classifiableReproductive toxicity: Not classified
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IARC group 3 - Not classifiable Reproductive toxicity : Not classified
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Specific target organ toxicity (single exposure) : Not classified
Specific target organ toxicity (repeated : Not classified
exposure)
Aspiration hazard : Not classified
Potential adverse human health effects and : Based on available data, the classification criteria are not met. symptoms
Symptoms/injuries after inhalation : May cause an allergic skin reaction.
Symptoms/injuries after skin contact : Causes skin irritation.
Symptoms/injuries after eye contact : Causes serious eye damage.

SECTION 12: Ecological information

12.1. Toxicity

EDTA; tetrasodium ethylenediami	netetracetate (64-02-8)
LC50 fish 1	121 mg/l (LC50; 96 h)
EC50 Daphnia 1	625 mg/l (EC50; 24 h)
Threshold limit algae 1	> 100 mg/l (EC0; 72 h)
D-limonene (5989-27-5)	
LC50 fish 1	720 μg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Pimephales promelas; Flow- through system; Fresh water; Experimental value)
EC50 Daphnia 1	0.36 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)
Threshold limit algae 1	150 mg/l (EC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Desmodesmus subspicatus; Static system; Fresh water; Read-across)
TKPP tetrapotassium pyrophosph	ate, anhydrous (7320-34-5)
LC50 fish 1	> 750 mg/l (LC50; 48 h)
disodium metasilicate, pentahydra	ate (10213-79-3)
LC50 fish 1	210 mg/l (LC50; 96 h)
EC50 Daphnia 1	216 mg/l (EC50; 96 h)
2.2. Persistence and degradab	
ORANGE APPEAL	

ORANGE APPEAL			
Persistence and degradability	Not established.		
EDTA; tetrasodium ethylenediaminetetracetate (64-02-8)			
Persistence and degradability	Not readily biodegradable ir	Not readily biodegradable in water. Not established.	
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EDTA; tetrasodium ethylenediaminetetrac	etate (64-02-8)
Biochemical oxygen demand (BOD)	< 0.002 g O₂/g substance
Chemical oxygen demand (COD)	0.54 - 0.58 g O₂/g substance
D-limonene (5989-27-5)	
Persistence and degradability	Readily biodegradable in water. Forming sediments in water. Adsorbs into the soil. Not established.
ThOD	3.29 g O ₂ /g substance
TKPP tetrapotassium pyrophosphate, anh	vdrous (7320-34-5)
Persistence and degradability	Biodegradability: not applicable. Not established.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
sodium xylenesulfonate (1300-72-7)	1
Persistence and degradability	Biodegradability in water: no data available. Not established.
disodium metasilicate, pentahydrate (1021	
Persistence and degradability	Biodegradability: not applicable.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	
THOD .	Not applicable
2.3. Bioaccumulative potential	
ORANGE APPEAL	
Bioaccumulative potential	Not established.
EDTA; tetrasodium ethylenediaminetetrac	etate (64-02-8)
Log Pow	-2.6
Bioaccumulative potential	Bioaccumulation: not applicable. Not established.
D-limonene (5989-27-5)	
BCF fish 1	864.8 - 1022 (BCF; Pisces)
Log Pow	4.38 (Experimental value; OECD 117: Partition Coefficient (n-octanol/water), HPLC method; 37 °C)
Bioaccumulative potential	Potential for bioaccumulation ($4 \ge Log \text{ Kow} \le 5$). Not established.
TKPP tetrapotassium pyrophosphate, anh	ydrous (7320-34-5)
Bioaccumulative potential	Bioaccumulation: not applicable. Not established.
sodium xylenesulfonate (1300-72-7)	
Bioaccumulative potential	No bioaccumulation data available. Not established.
disodium metasilicate, pentahydrate (1021	3-79-3)
Bioaccumulative potential	No bioaccumulation data available.
2.4. Mobility in soil	
D-limonene (5989-27-5)	
Log Koc	Koc,SRC PCKOCWIN v2.0; 1120 - 6324; QSAR
2.5. Other adverse effects	
ffect on the global warming	: No known ecological damage caused by this product.
Other information	: Avoid release to the environment.
SECTION 13: Disposal consideration	ons
3.1. Waste treatment methods	
Vaste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Additional information	: Handle empty containers with care because residual vapours are flammable.

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Ecology - waste materials : Avoid release to the environment. **SECTION 14: Transport information Department of Transportation (DOT)** In accordance with DOT Not regulated for transport TDG No additional information available Transport by sea UN-No. (IMDG) : 1824 Proper Shipping Name (IMDG) : SODIUM HYDROXIDE SOLUTION Class (IMDG) : 8 - Corrosive substances Packing group (IMDG) : III - substances presenting low danger Air transport UN-No. (IATA) : 1824 Proper Shipping Name (IATA) : Sodium hydroxide solution Class (IATA) : 8 - Corrosives

SECTION 15: Regulatory information

15.1. US Federal regulations

ORANGE APPEAL

Packing group (IATA)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

: III - Minor Danger

disodium metasilicate, pentahydrate

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

CAS No 10213-79-3

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

SECTION 16: Other information	
Revision date	: 05/06/2015
Other information	: None.

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Full text of H-statements:	
H226	Flammable liquid and vapour
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
NFPA health hazard NFPA fire hazard NFPA reactivity HMIS III Rating	 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given. 0 - Materials that will not burn. 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.
Health	: 1 Slight Hazard - Irritation or minor reversible injury possible
Flammability	: 0 Minimal Hazard - Materials that will not burn
Physical	: 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.
Personal Protection	: B

SDS US (GHS HazCom 2012)

No representation or warranty, either expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature, is made with respect to information concerning the product referred to in this document. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, it is impossible to foresee every health effect or exposure risk incurred by the use of this product. All chemicals present some degree of hazard and should be used with caution. The information and recommendations contained herein are presented in good faith. The user should review this information in conjunction with their knowledge of the application intended to determine the suitability of this product for such purpose. In no event will the supplier be responsible for any damages of any nature whatsoever, resulting from the use, reliance upon, or the misuse of this information. Furthermore, it is the direct responsibility of the user to comply with all applicable regulations governing the use and disposal of this material.