SAFETY DATA SHEET

Texas Correctional Industries
Texas Department of Criminal Justice

Date Issued: September 2016

Supersedes: May 2015

SECTION 1 - IDENTIFICATION

Product Name: **Tuff Orange**
General Use: Hand Cleaner/Degreaser
Manufacturer Name: Texas Correctional Industries
Roach Soap & Detergent Plant
15845 Fm 164
Childress, TX 79201

Emergency Telephone Numbers
Galveston Texas Poison Control: 1-800-764-7661
Roach Soap & Detergent Plant Lab: 940-937-6364 EXT. 7392
SDS available at: www.tci.tdcj.texas.gov
Monday thru Thursday: 5:30 AM – 3:30 PM

SECTION 2 - HAZARD IDENTIFICATION

Primary Route of Exposure : Eyes, and Ingestion
Signs and Symptoms of Over Exposure (acute)
- Eyes : Will cause eye irritation
- Skin : None; if irritation should develop wash with soap and water and discontinue use.
- Ingestion : May cause gastrointestinal irritation; Harmful or fatal if swallowed; call a physician immediately
- Inhalation : None expected

Signs and Symptoms of Over Exposure (chronic) : Not known
Medical condition aggravated by over exposure : Not known
Carcinogenic Potential : No components above 0.1% listed by OSHA, IARC, or NTP

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

			ACGIH/OSHA (TWA)		
Chemical/Common Name	CAS No.	Percent	TLV	PEL	WHMIS
Diethanolamine	61790-63-4	<0.3	0.46 ppm	3 ppm	N/D
Glycerin	56-81-5	~10	10mg/m^3	15mg/m^3	N/D
D'Limonene	14808-60-7	11 - 12	N/D	N/D	N/D

N/A= Not Applicable N/D = Not Determined
Threshold Limit Values (TLV): TWA (time-weighed average for 8 hr. day); PEL (personal exposure limit)

SECTION 4 - FIRST AID MEASURES

Eyes : Flush with plenty of water for at least 15 min. If any irritation persists, get medical attention.
Skin : N/A
Ingestion : Do not induce vomiting or give anything to drink unless directed by physician; never introduce or force any fluids into the mouth or nose of an unconscious person.
Inhalation : Not likely

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point (T.C.C.) : N/D
Flammable Limit : N/D
Physical Hazard : None

Extinguishing Media	:	Water, Foam, Dry Chemicals, or Carbon Dioxide
Fire Extinguishing Procedure	:	N/A
Fire and Explosive Hazard	:	None

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Steps to be taken if released or spilled : Gather all materials practical for salvage, disposal, or recycle. Rinse residue with water.

SECTION 7 - HANDLING AND STORAGE

- Store in a cool (<100° F), dry ventilated area. Do not store in direct sunlight.
- Keep out of the reach of children. Avoid extreme heat or open flames; combustible material.

Note: Product should be used as directed on the label. No warranty is implied expressly or otherwise regarding the accuracy of the information in the product's suitability for the consumer's use and the outcome of its use. The technical accuracy of the information submitted herein is based on the data submitted to TCI by the manufacturers for the materials used in this finished product.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection	:	None
Ventilation Requirement	:	None
Protective Gloves	:	None; repeated use may form irritation; will strip natural skin oils
Eye Protection	:	Chemical goggles or safety glasses; Do not put into your eyes

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure	:	N/D
Specific Gravity (water = 1)	:	N/D
Solubility in Water	:	Gel emulsion; soluble
pH (5%)	:	8 – 9.5
Boiling Point	:	≈ 145° F
Appearance and Odor	:	Orange opaque gel, slight citrus orange odor

SECTION 10 - STABILITY AND REACTIVITY

Hazardous Decomposition	:	Oxides of Carbon and Nitrogen
Stability	:	Stable under normal conditions
Incompatibility	:	Avoid strong acids, reducing and oxidizing agents

NOTE: The C### notation below refers to a principal component based on the amount present in the product which may involve trade secret chemicals. In the event of an accident, notify the Poison Control Center for more information.

SECTION 11 – TOXICOLOGICAL INFORMATION

C035

NTP STUDY ON DIETHANOLAMINE: Findings from the National Toxicology Program suggest an increased incidence of liver tumors in male mice and an increased incidence of kidney tumors in male mice dermally exposed for their lifetime to Diethanolamine. The significance of these findings and their relevance to humans are not clear as Diethanolamine was not genotoxic (neither mutagenic nor clastogenic), and did not induce tumors in rats or transgenic mice similarly tested. Additional research, which is designed to provide a better understanding of these observations to humans, if any, is underway.

C124

No definitive information available on carcinogenicity, mutagenicity, target organs, or developmental toxicity.

Acute Toxicity Data:

EYE IRRITATION: 126 mg of Glycerin applied to the eyes of rabbits in a Draize test resulted in mild irritation.

SKIN IRRITATION: Primary Irritation Index of Glycerin = 0.3. 500 mg of Glycerin applied to the skin of rabbits over a 24 hour period resulted in moderate irritation.

INHALATION: Nuisance particulates have been reported for glycerin mist.
ORAL LD5D: 12.6 g/Kg (Rat); 4.1 g/Kg (Mouse); 7.8 g/Kg (Guinea Pig)
DERMAL I-D5(): 10 g/kg (Rabbit)
INHALATION LCSD: > 0.57 mg/l (Rabbit)

Other Toxicity Data:

Repeated excessive exposures may cause increased fat levels in blood. Observations in animals include kidney, liver, and gastrointestinal effects with very large oral doses. Did not cause cancer in long-term animal studies. Birth defects are unlikely. Exposures having no adverse effects on the mother should have no effect on the fetus. Reproductive effects seen in females are believed to be due to altered nutritional states resulting from extremely high doses in their diets. Similar effects have been seen in animals fed synthetic diets..
No component of this product present at levels greater than 0.1% has been identified as a carcinogen by the U.S. National Toxicology Program, the U.S. Occupational Safety and Health Act, or the International Agency on Research on Cancer (IARC).

C040
Carcinogenicity: Not listed as carcinogenic according to IARC, NTP or OSHA.
Mutagenicity: This product class is non-mutagenic.
LD50 Values: Oral LD50 (rat) = >5000 - I5,000 mg/kg
Dermal LD50 (rabbit) = >2,000 < or equal to 20,000 mg/kg

SECTION 12 – ECOLOGICAL INFORMATION

C035
No information available.

C124
No definitive information available on ecological impact if product is released to the environment.

C040
Environmental impact: This product is biodegradable.

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste disposal method	:	Any unsalvageable material must be disposed in compliance with local, state, and federal laws and regulations. Do not dump into s ewers, on the ground, or into any bodies of water.

SECTION 14 – TRANSPORT INFORMATION

C035
n/a

C124
U.S. Department of Transportation: Not regulated.

C040

DOT Proper Shipping Name:	Refer to bill of lading or container label for DOT or other transportation hazard classification, if any.

SECTION 15 – REGULATORY INFORMATION

C035

n/a

C124

CERCLA Sections 102AI103 Hazardous Substances (40 CFR Part 302.4):	Not reportable.
SARA Title III Section 302 Extremely Hazardous Substances (40 CFR Part 355): Not regulated.	
SARA Title III Sections 311 I312 Hazardous Categorization (40 CFR Part 370):	None noted.
SARA Title III Section 313 (40 CFR Part 372):	Not regulated.
U.S. Inventory (TSCA):	Listed on inventory. All components comply with TSCA.
EPCRA 313:	Not listed and does not contain any listed chemical or chemical category requiring reporting under 40 CFR 372.65

C040

Ingredient Name CAS Number Percent Methyl Ester,
Soybean Oil 67784-80-9 > 99%
Inventories:
All components of this product are listed on the following inventories:

U.S.A.(TSCA)	There is no calculable reportable quantity-(RQ) for this product.

SECTION 16 – OTHER INFORMATION

Federal Hazardous Substances Act statutes and Consumer Product Safety Commission regulations: 16 CFR 1500.14(b)(3) and 1500.83(a)(13).

*SDS updated by: Timothy Sharpe, TCI Chemist, Childress, TX

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