

MATERIAL SAFETY DATA SHEET



Date-Issued: 01/01/2013
MSDS Ref. No: MSDS-TB-ORANGE
Date-Revised: 01/01/2013
Revision No: 16 Part MSDS

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: TB-ORANGE
GENERAL USE: ADHESIVE REMOVER AND GENERAL CLEANER
PRODUCT CODE: TB-ORANGE

MANUFACTURER

Technical Marketing, Ltd. (TEKMAR)
P.O. Box 4700
Santa Barbara, CA 93140

Contact: Health & Safety
Product Stewardship: (805) 965-0704
Transportation: (800) 564-1096

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC (U.S.): (800) 424-9300
Emergency Phone: (805) 965-0704
International (collect): ++703 527-3887

COMMENTS: To the best of our knowledge, this Material Safety Data Sheet conforms to the requirements of US OSHA 29 CFR 1910.1200, 91/155/EEC and Canadian Hazardous Products Act.

2. COMPOSITION / INFORMATION ON INGREDIENTS

| <u>Chemical Name</u> | <u>Wt. %</u> | <u>CAS#</u> |
|---|--------------|-------------|
| D-LIMONENE; orange distillate; citrus terpene; cyclohexene, 1-methyl-4-(1-methylethenyl)-, | 80-95 | 5989-27-5 |
| NONYLPHENOXYPOLY(ETHYLENEOXY)ETHANOL npe; poly(oxy-1,2-ethanediyl)alpha-(nonylphenyl)-omega-hydroxy | 1-5 | 9016-45-9 |
| NONYLPHENOXY POLY(ETHYLENEOXY) ETHANOL - npe; poly(oxy-1,2-ethanediyl) Nalpha-(nonylphenyl)-omega-hydroxy | 1-5 | 9016-45-9 |
| Proprietary Non-Hazardous Components | <1 | N/A |

3. HAZARDS IDENTIFICATION

Emergency overview

WARNING !
COMBUSTIBLE. CAUSES EYE IRRITATION.

*Hazard Determination System (HDS): Health, Flammability, Reactivity



NOTE: MSDS data pertains to the product as delivered in the original shipping container(s). Risk of adverse effects are lessened by following all prescribed safety precautions, including the use of proper personal protective equipment.

Acute Effects **Routes of Entry** Dermal contact. Eye contact. Inhalation.

Eyes Causes eye irritation. Inflammation of the eye is characterized by redness, watering and itching.
Skin May cause skin irritation. May cause skin sensitization. May cause allergic reactions in certain individuals. Skin inflammation is characterized by itching, scaling, or reddening.

Inhalation Avoid breathing vapors, spray or mists. Over-exposure by inhalation may cause respiratory irritation.

Ingestion May be harmful if swallowed. Aspiration hazard if swallowed. Can enter lungs and cause damage.

Carcinogenicity Ingredients: Not listed as carcinogen by OSHA, NTP or IARC.

Chronic effects Prolonged or repeated contact may dry skin and cause irritation. Contains material which may cause damage to the following organs: kidneys, lungs, liver.

Additional Information: See Toxicological Information (Section 11)

4. FIRST AID MEASURES

EYES: Immediately flush eyes with water; remove contact lenses, if present, after the first 5 minutes, then continue flushing eyes for at least 15 minutes. Obtain medical attention without delay, preferably from an ophthalmologist.

SKIN: skin with plenty of water

INGESTION: Do not induce vomiting. Call a physician and/or transport to emergency facility immediately..

INHALATION: Move person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, oxygen should be administered by qualified personnel. Call a physician or transport to a medical facility.

MEDICAL CONDITIONS AGGRAVATED: Carboxyhemoglobinemia may aggravate any preexisting condition sensitive to a decrease in available oxygen, such as chronic lung disease, coronary artery disease or anemias. If burn is present, treat as any thermal burn after decontamination. Because rapid absorption may occur through the lungs if aspirated and cause systemic effects, the decision of whether to induce vomiting or not should be made by a physician. If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. Exposure may increase "myocardial irritability." Do not administer sympathomimetic drugs unless absolutely necessary. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: > 49.4 °C (120.9°F)T.C.C.

FLAMMABLE LIMITS: Not determined

FLAMMABLE CLASS: COMBUSTIBLE

Fire hazard Combustible liquid and vapor. Keep away from heat, sparks and flame.

Fire-Fighting Procedures Use dry chemical, CO₂, water spray (fog) or foam. Fire-fighters should wear appropriate protective equipment. Do not release runoff from fire to sewers or waterways protective equipment. Do not release runoff from fire to sewers or waterways.

6. ACCIDENTAL RELEASE MEASURES

Spill Clean up Eliminate all ignition sources. Put on appropriate personal protective equipment (see section 8). Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

In case of accident or road spill notify:
CHEMTREC in USA at 800-424-9300
CHEMTREC, other countries, at (International code)+1 703 527 3887

7. HANDLING AND STORAGE

Handling Put on appropriate personal protective equipment (see section 8). Store and use away from heat, sparks, open flame or any other ignition source. Avoid contact with eyes, skin and clothing. Avoid breathing vapors, spray or mists. Use only with adequate ventilation. Do not ingest. Observe label precautions. Wash thoroughly after handling. Empty containers retain product residue and can be hazardous. Do not reuse container.

Storage Keep away from heat and direct sunlight. Avoid all possible sources of ignition (spark or flame). Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Keep away from food, drink and animal feeding stuffs. Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal Protective Equipment (PPE)

Eyes Safety glasses.

Body For prolonged or repeated handling, use gloves. Recommended: Neoprene gloves. Nitrile gloves. Rubber gloves.

Respiratory Use with adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|-------------------------|----------------------|-------------------------|-----------------------------------|
| Physical State | Liquid. | Color | Clear. Orange. |
| pH | Not applicable. | Odor | Orange. [Strong] |
| Boiling Point | 170 °C (338 °F) | Vapor Pressure | 0.25 kPa (1.9 mm Hg) |
| Specific Gravity | 0.85 | Vapor Density | 4.7 [Air = 1] |
| Solubility | Emulsifies in water. | Evaporation Rate | <1 (Water = 1) |
| | | VOC (Consumer) | 789.37 (g/l). 6.59 lbs/gal 92.70% |

10. STABILITY AND REACTIVITY

Stability and Reactivity The product is stable.

Incompatibility Combustible materials should be stored away from extreme heat and away from strong oxidizing agents. Incompatible with some strong acids. Reactive with acidic clay (i.e. clay absorbent) Reactive or incompatible with the following materials: oxidizing materials.

Hazardous Decomposition Products Will not occur.

Hazardous Polymerization carbon oxides

11. TOXICOLOGICAL INFORMATION: (See Section 3 for Potential Health Effects).

Acute Toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|--------------------------------|-------------|---------|-------------|----------|
| d-Limonene | LD50 Dermal | Rabbit | >5000 mg/kg | - |
| | LD50 Oral | Rat | >5000 mg/kg | - |
| Nonylphenoxy poly(Ethyleneoxy) | LD50 Dermal | Rabbit | 2000 mg/kg | - |
| Ethano | LD50 Oral | Rat | 3310 mg/kg | - |

12. ECOLOGICAL INFORMATION

12. ECOLOGICAL INFORMATION

Environmental Effects No known significant effects or critical hazards.

Aquatic Ecotoxicity Not available.

13. DISPOSAL CONSIDERATIONS: (See Section 15 for Regulatory Information)

Waste Information

Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities for additional information.

Waste Stream Code: D001
Classification: - [Hazardous waste.]
Origin: - [RCRA waste.]

14. TRANSPORT INFORMATION

| Regulatory information | UN number | Proper shipping name | Classes | PG* | Label |
|---------------------------|-----------------|--|---------|-----|-------|
| DOT Classification | Not applicable. | Not a DOT controlled material (United States). | | | |
| IMDG Class | Not determined. | | | | |

15. REGULATORY INFORMATION

U.S. Federal Regulations

SARA 313 toxic chemical notification and release reporting:

No products were found.

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: No products were found.

Clean Air Act (CAA) 112 regulated toxic substances: No products were found

All Components of this product are listed or exempt from listing on TSCA Inventory.

State Regulations

California Prop 65 No products were found.

LOCAL REGULATIONS: Not Available

16. OTHER INFORMATION

REASON FOR ISSUE: New 16 Part MSDS

APPROVED BY: Jim Brakka **TITLE:** General Manager

PREPARED BY: Product Stewardship Department

INFORMATION CONTACT: Product Stewardship Analyst

HMIS RATING

| | |
|-----------------------------|------------|
| HEALTH: | 1 |
| FLAMMABILITY: | 2 |
| PHYSICAL HAZARD: | 0 |
| PERSONAL PROTECTION: | SEE SEC. 8 |

NFPA CODES

HEALTH: 1
FLAMMABILITY: 2
REACTIVITY: 0

MANUFACTURER DISCLAIMER: Information given herein is offered in good faith as accurate, but without guarantee. Conditions of use and suitability of the product for particular uses are beyond our control; all risks of use of the product are therefore assumed by the user. Nothing is intended as a recommendation for uses which infringe valid patents or as extending license under valid patents. Appropriate warnings and safe handling procedures should be provided to handlers and users.