

TNT PLUS

Material Safety Data Sheet

Trade Name: TNT Plus
Manufactured For: Clayton Associates, Inc.
1650 Oak Street
Lakewood, NJ 08701-5040
USA
Tel: 732-363-2100
Fax: 732-364-6084
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Date of M.S.D.S.: 2/19/05

SECTION 1 - IDENTIFICATION

Trade Name: TNT Plus
Chemical Family: Biomass Alcohol microemulsion
Formula: Trade Secret
DOT Shipping Information: Not Regulated
CAS Number: Not Applicable (Trade Secret Mixture)
NFPA Designation: This product has not been rated by the NFPA. Clayton Associates has developed the following rating in accordance with the guidelines listed in NFPA 704, "Identification System-Fire Hazardous of Materials, 1985".

Hazard Rating:

		Health:	1
4 - Extreme	1 - Slight	Flammability:	0
3 - High	0 - None	Reactivity:	0
2 - Moderate	X - Blank	Specific:	X

SECTION II - HAZARDOUS INGREDIENTS

Material:	% By Weight	CAS Number	LC ₅₀ / LD ₅₀ of Material
NONE-Hazardous			

Carcinogenicity Status: National Toxicological Program-No OSHA-No
Trade Secret Information*

* This product's specific chemical identify is being withheld as a trade secret and is withheld in accordance with the provisions of **CFR 1910.1200**.

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SECTION III - PHYSICAL DATA

Appearance:	Clear Liquid
Odor:	Slight Pine
pH:	10.0 - 11.0 (no free alkali)
Viscosity (cps.)	11.7 cps
% Volatile:	N/A
Solubility in Water:	Complete less than 10% dilutions, more than 10% slightly soluble
Specific Gravity (Water=1):	1.040 @ 25 deg C.
Vapor Density (Air=1):	2.682 g/l
Vapor Pressure (mm Hg):	< 0.5914

SECTION IV - FIRE AND EXPLOSION

Flash Point:	None to boiling (T.C.C.)
Auto Ignition Temperature:	N/A
Flammable Limits in Air (g/l)	LEL = 0.09 UEL = 0.55
Extinguishing Media:	Dry chemical (sodium bicarbonate), foam or CO ₂
Special fire Procedures:	Use blanket or smothering effect to put out the fire. Water is most effective when used as a mist or spray. Class B fire procedures.

SECTION V - HEALTH HAZARD INFORMATION

Medical Conditions Aggravated by Exposure:	None known or established
Routes of Exposure:	
Inhalation-	In extreme cases, may cause irritation to mucus membrane
Skin Contact-	In extreme and rare cases, may cause irritation or dermatitis
Skin Absorption-	In extreme cases, may cause irritation or dermatitis
Eye Contact-	May cause stinging or burning
Ingestion-	May cause irritation to the digestive system
Effects of Acute Over Exposure:	
Swallowing-	May cause irritation in the digestive system
Skin Contact-	May cause irritation or dermatitis
Inhalation-	May cause irritation to mucus membrane
Eye Contact-	May cause stinging or burning
Effects of Chronic Over Exposure:	
Eye-	May cause eye irritation
Skin-	None known
Emergency First Aid Procedures:	
Eyes-	If in eyes, flush with plenty of water for at least 15 minutes. Get medical attention.
Skin-	This product has not established any skin irritation..

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Inhalation- None-No adverse effect established
Ingestion- Drink large quantities of milk or water.

SECTION VI - REACTIVITY DATA

Conditions Contributing to Instability: This product is stable under normal conditions.
Incompatibility: Strong oxidizing agents.
Decomposition Products: None Known
Conditions Contributing to Hazardous Polymerization: Will not occur

SECTION VII - SPILL OR LEAK PROCEDURES

Steps to be taken if Material is Released or Spilled: TNT Plus is biodegradable. Flush to sewer
Waste Disposal: Virgin material is not regulated by the Resource Conservation and Recovery Act) RCRA) (40CFR part 260-261).

SECTION VIII - SPECIAL PROTECTION INFORMATION

Ventilation Requirements: None Required
Special Personal Protective Equipment: [REDACTED]
Respiratory- None required
Eyes- As with any chemical never get into eyes. If, persistent eye contact continues use a chemical splash goggles and / or face shield.
Gloves- None required, if irritation exists, use rubber gloves.
Other- No special protection required.

SECTION IX - SPECIAL PRECAUTIONS

Precautions to be taken in Handling: Do not get in eyes.
Proper Storage, Handling and Disposal Requirements: Store in cool dry area. Keep container closed when not in use. Store away from strong oxidizing agents. **CAUTION: KEEP OUT OF REACH OF CHILDREN.**
Other Precautions: Prolonged contact with skin may cause chapping. No special precautions are required.

SECTION X REGULATORY INFORMATION

All ingredients are included in the Toxic Substance Control Act (TSCA) Inventory of Chemical Substances. This product is biodegradable. Check with local authorities, this product does not require reporting, if spill occurs. It can be flushed to sewer.

SECTION XI TOXICOLOGICAL INFORMATION

Oral rat LD50: 5170 mg/kg.

Ingredient Category	---NTP Carcinogen---		IARC
	Known	Anticipated	
Terpineol (98-55-5)	No	No	None
Terpineol, gamma (586-81-2)	No	No	None
(beta)-Terpineol (138-87-4)	No	No	None

SECTION XII ECOLOGICAL INFORMATION

Environmental Fate:

The Koc is estimated to be 67. This Koc value suggests that alpha-terpineol has high mobility in soil and may leach.

Environmental Toxicity:

No information found.

SECTION XIII DISPOSAL CONSIDERSTIONS

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

SECTION XIV TRANSPORTATION INFORMATION

Not regulated.

SECTION XV REGULATORY CONSIDERATION

Ingredient	TSCA	EC	Japan	Australia
Terpineol (98-55-5)	Yes	Yes	Yes	Yes
Terpineol, gamma (586-81-2)	Yes	Yes	Yes	Yes
(beta)-Terpineol (138-87-4)	Yes	Yes	Yes	Yes

Ingredient	Korea	DSL	NDSL	Phil.

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Terpineol (98-55-5)	Yes	Yes	No	Yes
Terpineol, gamma (586-81-2)	Yes	Yes	No	Yes
(beta)-Terpineol (138-87-4)	Yes	Yes	No	Yes

-----\Federal, State & International Regulations - Part 1\-----

-SARA 302- -----SARA 313-----

Ingredient	RQ	TPQ	List	Chemical Catg.
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Terpineol (98-55-5)	No	No	No	No
Terpineol, gamma (586-81-2)	No	No	No	No
(beta)-Terpineol (138-87-4)	No	No	No	No

-----\Federal, State & International Regulations - Part 2\-----

-RCRA- -TSCA-

Ingredient	CERCLA	261.33	8(d)
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Terpineol (98-55-5)	No	No	No
Terpineol, gamma (586-81-2)	No	No	No
(beta)-Terpineol (138-87-4)	No	No	No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No
SARA 311/312: Acute: Yes Chronic: No Fire: No Pressure: No
Reactivity: No (Mixture / Liquid)

Australian Hazchem Code: None allocated.

Poison Schedule: None allocated.

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

SECTION XVI OTHER INFORMATION

NFPA Ratings: Health: 1 Flammability: 0 Reactivity: 0

Label Hazard Warning:

CAUTION! MAY CAUSE IRRITATION TO SKIN AND EYES.

Label Precautions:

Store in a tightly closed container.
Wash thoroughly after handling.
Avoid contact with eyes, skin and clothing.

Label First Aid:

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse.

Product Use:

Brake Parts Cleaner and Degreaser

Revision Information:

MSDS Section(s) changed since last revision of document include: 9.

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MSDS Prepared by: Clayton Associates, Inc
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Tel: 732-363-2100 Fax: 732-364-6084

Issued Date: 10/14/91

Revised: 3/07/94
2/28/95
6/01/96
8/25/97
2/02/98
3/16/99
2/18/04
3/15/06
10/25/07

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