



Tompkins Industries, Inc.

Material Safety Data Sheet

Section I. Chemical Product and Company Identification

Product Name/ Trade Name	Tompkins® NC-Cleaner/Degreaser with Citrus	Date Printed	1/11/2005
Product ID No.	TOMP-0211	Approval Date	1/11/2005
Supplier	Tompkins® Industries, Inc. 944 N. Chestnut Trafficway Kansas City, MO 64120 USA	Supersedes Date	1/10/2005
Chemical Family	Mixture	CAS #	COMPLEX MIXTURE CAS Number Not Applicable
Material Uses	Cleaner/degreaser	In Case of Emergency	CHEM-TEL: 800-255-3924 (North America) 813-248-0585 Collect (International)
		Information	Phone: 800-255-1008 Fax: 800-959-3333 www.tompkinsindustries.com

Section II. Composition and Information on Ingredients

Name	PEL/TLV, Source	CAS #	% by Weight
PROPRIETARY FORMULA.			
n-Propyl bromide	100 ppm, OSHA	106-94-5	85-95
t-Butanol	100 ppm, OSHA	75-65-0	1-5
1,2-Epoxybutane	400 ppm, OSHA	106-88-7	1-5
n-Propanol	200 ppm, OSHA	71-23-8	1-5
D-Limonene	NE	5989-27-5	5-10
Carbon dioxide	5000 ppm, OSHA	124-38-9	1-5
LC ₅₀ , LD ₅₀ of Ingredients	Not available		

Section III. Hazards Identification

Emergency Overview	Potential health risks vary from person to person. As a precaution, exposure to liquids, vapors, mists or fumes should be minimized. Reports have associated repeated and prolonged occupational exposure to solvents with liver, kidney, brain, and nervous system damage.
Potential Health Effects:	
Eye Contact	May cause irritation and redness.
Skin Contact	Prolonged or repeated skin contact can cause moderate irritation, dermatitis, and defatting or drying of the skin which may result in a burning sensation and a dried, cracked appearance. People prone to skin sensitiveness may be more sensitive to this product.
Ingestion	May be harmful if swallowed, causing nausea, vomiting and abdominal pain.
Inhalation	Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, and possible unconsciousness. Asthma and other respiratory ailments may be aggravated by exposure.

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Section III. Hazards Identification (cont'd)

HMIS Code	Health: 2	Fire: 1	Reactivity: 0
NFPA Code	Health: 2	Fire: 1	Reactivity: 0

Section IV. First Aid Measures

Eye Contact	Immediately flush eyes with large amounts of water for 15 minutes. Remove contact lenses and lift eyelids to ensure complete flushing. If irritation or other symptoms persist, call a physician.
Skin Contact	Remove contaminated clothing and shoes. Immediately wash contaminated area thoroughly with soap and water. Wash clothing and shoes before reuse. If irritation is severe, call a physician immediately.
Ingestion	DO NOT induce vomiting. If spontaneous vomiting is about to occur, place the victim's head below their knees to prevent aspiration. Drink 1 or 2 glasses of water to dilute. Never give anything by mouth to an unconscious person. Call physician or poison control center immediately.
Inhalation	Move person to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, administer oxygen. Call a physician immediately.

Section V. Fire and Explosion Data

Autoignition Temperature	Not available
Flash Point	No flame extension; nonflammable
Flammable Limits (Approx.)	LOWER Flammable Limit: Not available UPPER Flammable Limit: Not available
Explosion Hazards	See Lower and Upper Flammable Limits
Products of Combustion	Carbon monoxide and carbon dioxide may be formed during decomposition.
Fire Fighting Media and Instructions	Use NFPA Class B extinguisher, carbon dioxide or foam. Use water to keep fire-exposed containers cool. Pressure build-up due to heat exposure may cause container to burst. Water may be used to cool containers. Use supplied-air breathing equipment for enclosed or confined spaces or as otherwise needed.
Special Remarks - Fire and Explosion Hazards	Fight fire from safe distance. Wear full protective equipment, including self-contained breathing gear.

Section VI. Accidental Release Measures

Release or Spill	Ventilate area, especially low places where vapors may collect. Extinguish all ignition sources. Collect spills with absorbent material and non-sparking tools. Refer to other sections of MSDS for information regarding hazards, ventilation, and personal protective equipment.
Environmental Impact	Report spills as required to the appropriate authorities. U.S. Coast Guard Regulations require immediate reporting of spills that could reach any waterway including intermittent dry creeks. Report spill to the Coast Guard toll-free number 800-424-8802.

Section VII. Handling and Storage

Handling and Storage	Contents under pressure. Flammable. Do not store near heat, sparks or open flame. Store containers below 120°F (49°C). Read label before using. Do not get into eyes, on skin or clothing. Do not breathe vapor, mist or gas. Use with adequate ventilation. Do not take internally. Do not smoke when handling or using this product. Do not throw empty containers in trash compactor or into fires. Do not cut on empty containers as they may contain vapors that are flammable. Keep out of reach of children.
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Section VIII. Exposure Controls and Personal Protection

Respiratory Protection	In open areas with unrestricted ventilation, a NIOSH/MSHA-approved respirator to remove solid airborne particles of overspray may be used if prolonged and repeated exposure is likely. In areas with restricted ventilation, the use of an approved chemical/mechanical filter designed to remove both particles and organic vapors is recommended.
Ventilation	Control airborne concentrations below the exposure limits in Section II.
Protective Gloves	Use protective gloves if contact with product is likely.
Eye Protection	Chemical splash goggles or face shield in compliance with OSHA regulations are advised when eye contact may occur.
Personal Hygiene	Wear non-permeable clothing to protect skin from liquid contact. Do not eat or drink or wear facial cream when using this product. Do not swallow. Wash hands before eating or using restroom.
Engineering Controls	Implement engineering controls so that workplace exposure limit(s) of product or any component is not exceeded.
Exposure Limit	See Section II for ingredient exposure limits.

Section IX. Physical and Chemical Properties

Appearance/Odor	Clear with citrus solvent odor	Vapor Pressure	Not available
		Vapor Density	Heavier than air
Odor Threshold	Not available	Percent Volatile	100%
Specific Gravity	0.6524	Evaporation Rate	Slower than ether
Density	10.86 pounds/gallon	Viscosity	Not available
Molecular Weight	Not available	Solubility in Water	Insoluble
pH	Not available	Coefficient of Water/Oil Distribution	Not available
Boiling Point	Not available	Physical State	Liquid and compressed gas in aerosol can
Freezing/Melting Point	Not available		

Section X. Stability and Reactivity Data

Stability	Stable under normal temperatures and pressures.
Conditions of Reactivity	Not available
Conditions and Materials to Avoid	Avoid caustics and strong oxidizers. Avoid high temperatures and open flames.
Hazardous Polymerization	Hazardous polymerization will not occur.
Hazardous Decomposition Products	Carbon monoxide and carbon dioxide may be formed during decomposition.

Section XI. Toxicological Information

Routes of Entry	Dermal contact, eye contact, inhalation, ingestion.
Toxicity to Animals	Not available
Effects of Acute Exposure	Not available
Acute Effects of Sensitization	Not available
Ingestion	Not available
Inhalation	Not available
Toxically Synergistic Products	Not available
Chronic Effects on Humans:	
Carcinogenic Effects	This product does not contain a carcinogen or potential carcinogen as listed by NTP, IARC, or OSHA [29 CFR 1910.1200(D)#4].
Mutagenic Effects	No data available to indicate any components present at greater than 0.1% may present a mutagenic hazard.

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Section XI. Toxicological Information (cont'd)

Teratogenic Effects	No data available to indicate any components present at greater than 0.1% may present a teratogenic hazard.
Reproductive Effects	No data available to indicate any components present at greater than 0.1% may present a reproductive hazard.

Section XII. Ecological Information

Ecotoxicity	There is no data available on the adverse effects of this material on the environment.
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Section XIII. Disposal Considerations

Waste Disposal	Consult federal, state or local authorities for proper disposal and reporting procedures. All disposals must comply with federal, state and local regulations.
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Section XIV. Transportation Information

I.A.T.A. Air Transportation:		U.S. D.O.T. Ground Transportation:	
Shipping Name	Aerosols, nonflammable, n.o.s.	Shipping Name	Consumer Commodity ORM-D
Hazard Class	2.2		
UN Number	UN1950		
Packing Group	None	U.S. D.O.T. Remarks	The above U.S. D.O.T. information applies to shipping BY GROUND ONLY.
I.A.T.A. Remarks	None		

Section XV. Regulatory Information

U.S. Federal Regulations:	
CERCLA	Release of the following chemical(s) at quantities equal to or greater than the reportable quantities (RQ), is regulated by 40 CFR 302.4 : None
SARA (Section 313)	This product contains the following chemical(s) listed in Section 313 at or above the de minimis concentrations: None
SARA Extremely Hazardous List	This product contains greater than 1.0% of the following chemical(s) on the SARA Extremely Hazardous Substances List: None
TSCA Inventory	All components of this material are on the U.S. TSCA Inventory.
California Prop. 65	This product contains the following chemical(s) known to the State of California to cause birth defects or other reproductive harm: None

International Regulations:

Canada	All components are in compliance with the Canadian Environmental Protection Act. This product has been classified in accordance with the hazard criteria of the CPR and this MSDS contains all the information required by CPR.
Japan MITI	Not available
Australia	Not available
Switzerland	Not available

Section XVI. Other Information

Approval Date	1/11/2005
Supersedes Date	1/10/2005
Sections Revised Since Last Version	None

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