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TECH INTERNATIONAL

**TECH RUB-O-MATIC AEROSOL
 MATERIAL SAFETY DATA SHEET**

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SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: TECH RUB-O-MATIC AEROSOL
CATALOG NUMBER(S): 704A (Aerosol)
PRODUCT USE: RUBBER CLEANER

FOR CUSTOMER SERVICE INFORMATION, CONTACT:
 TECH INTERNATIONAL, P.O. Box 486, Johnstown, OH, 43031-0486, USA
 740-967-9015 or 800-433-8324 (fax - 740-967-3583)

EMERGENCY TELEPHONE NUMBER (24 hrs.): CHEMTREC North America (800) 424-9300 or (703) 527-3887
EMERGENCY TELEPHONE NUMBER (24 hrs.): CHEMTREC International (703) 527-3887

SECTION 2. CHEMICAL COMPOSITION/HAZARDOUS INGREDIENTS/OCCUPATIONAL EXPOSURE LIMITS

INGREDIENT (COMMON NAME)	CAS NO.	% (by wgt.)	OSHA PEL	ACGIH TLV	NIOSH REL	AIHA WEEL
A blend of light and med. aliphatic hydrocarbons	64742-89-8, 64742-88-7	65	500 ppm ¹	400 ppm (skin) ¹	86 ppm ¹	*
Heptane	142-82-5	25	400 ppm	400 ppm		
Propane	74-98-6	10	1000 ppm	2,500 ppm	1000 ppm	*

NOTES	
1	A complex stream of predominantly C6 to C9 hydrocarbons, exact composition varies. Occupational exposure limits based on limits for petroleum distillates/naphtha/rubber solvent.
*	Not Established

EXPOSURE LIMITS ARE TIME WEIGHTED AVERAGES (TWA). SHORT-TERM EXPOSURE LIMITS (STEL) AND CEILING (C) ARE INCLUDED IF ESTABLISHED.

SECTION 3. HAZARD IDENTIFICATION

Emergency Overview:

Appearance & Odor: Colorless Gas/Clear liquid. Strong hydrocarbon solvent odor.

Health Hazards: May cause eye and skin irritation. The aerosol spray canister uses a compressed flammable gas propellant. Exposure to vapor or mist is possible. Can cause severe lung damage and may be fatal if swallowed. May cause CSN depression.

Physical Hazards: EXTREMELY FLAMMABLE. CONTENTS UNDER PRESSURE. Keep away from heat. May explode violently when heated. Do not store in sunlight or heat over 120°F. Do not spray into open flame or hot surfaces. Do not puncture or incinerate. Carbon dioxide, carbon monoxide, and various hydrocarbons may form with decomposition. Keep out of reach of children.

R-PHRASES: R12 Extremely Flammable, R38 Irritant to skin, R67 Vapours may cause drowsiness and dizziness

S-PHRASES: S2 Keep out of reach of children, S16 Keep away from sources of ignition-no smoking; S23 Do not breath vapour or spray, S51 Use only in well-ventilated areas

HAZARD SYMBOL: F+ Extremely Flammable, Xi Irritant

EYE CONTACT	Exposure to product may cause eye irritation. Symptoms include stinging, tearing, redness and swelling.
INHALATION	Exposure to vapor or mist is possible. The short-term inhalation toxicity is low. Breathing small amounts of vapors during normal handling is not likely to cause harmful effects; breathing large amounts may be harmful.



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INGESTION	Unlikely due to being in aerosol form but in rare cases ingestion may cause irritation to membranes of the mouth, throat and gastrointestinal tract. Vomiting and cramps may occur.
SKIN CONTACT	Exposure may cause mild skin irritation. Prolonged or repeated exposure may dry skin. Symptoms include: redness, burning, drying, cracking and skin burns.
TARGET ORGANS EFFECTED	CNS, liver, kidneys, skin, eyes, respiratory tract

CARCINOGENICITY - LISTED BY:

ACGIH	No	IARC	No	NTP	No	OSHA	No
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SECTION 4. FIRST AID MEASURES

EYE CONTACT	If symptoms develop, move individual away from exposure and into fresh air. Flush eyes with water for at least 20 minutes while holding eyelids apart. If symptoms persist, seek medical attention.
INHALATION	If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention. If person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen. Keep person warm and quiet.
INGESTION	If swallowed, DO NOT induce vomiting. This material is an aspiration hazard. If person is drowsy or unconscious, place on left side with head down. Seek immediate medical attention.
SKIN CONTACT	Remove contaminated clothing. Wash exposed area with soap and water. Launder contaminated clothing before reuse. If symptoms persist, seek medical attention.

SECTION 5. FIRE FIGHTING MEASURES

FLASH POINT AND METHOD	30 ° F (-1° C); Propellant <0 ° F (-18° C) TCC
LEL	0.9% (naphtha) 2.1% (propane)
UEL	10% (naphtha) 9.5% (propane)
EXTINGUISHING MEDIA	Foam, carbon dioxide or dry chemical
SPECIAL FIREFIGHTING PROCEDURES	Extremely flammable liquid packaged in an aerosol spray canister using a flammable gas propellant. Wear self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode when fighting fires.
UNUSUAL FIRE AND EXPLOSION HAZARDS	Never use a welding or cutting torch on or near container (even when empty) because product (or residue), can ignite explosively. All 5-gallon or larger metal containers should be grounded and bonded when material is being transferred. Vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking or other ignition sources distant from the material handling point.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Spills from aerosol cans are unlikely and generally of small volume. Spill prevention is generally not a problem. In case of spill or rupture, avoid breathing vapors and ventilate area well. Remove all sources of ignition and use non-sparking equipment. Remove with inert absorbents. Allow absorbents to dry then incinerate. Do not incinerate aerosol cans.

SECTION 7. HANDLING AND STORAGE

STORAGE:	Do not store in sunlight or heat over 120°F (50°C). Keep away from ignition sources. Store in approved flammable cabinet, building, or area. For warehouse storage, pallets and cases should be placed to avoid damage or rupture from material handling equipment. NFPA 30B Level 3 Aerosol
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HANDLING:	With use, spray aerosol carefully and cap after each use. Contents under pressure. Do not spray into open flame or hot surfaces. High temperatures may cause bursting. Keep out of reach of children. Surfaces that are sufficiently hot may ignite liquid material. Vapors are flammable and heavier than air. Vapors may travel across the ground and reach remote ignition sources causing a flashback fire danger. Extinguish pilot lights, cigarettes and turn off other sources of ignition prior to use and until all vapors have dissipated. Use explosion-proof ventilation to prevent vapor accumulation while in use. Properly dispose of any contaminated rags or cleaning materials in order to prevent fires. Wash with soap and water before eating, drinking, smoking, applying cosmetics, or using toilet facilities.
CONTAINER WARNINGS	Empty containers can contain explosive vapors. Do not puncture, cut, drill, grind, weld or perform similar operations on or near containers.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EYE PROTECTION	Chemical splash goggles in compliance with OSHA regulations are advised, however OSHA regulations also permit other types of safety glasses. Consult your safety equipment representative.
RESPIRATORY PROTECTION	If workplace exposure limit (s) of product or any component is exceeded (See Section 2), a NIOSH/MSHA approved respirator is advised in the absence of proper environmental control. OSHA regulations permit other NIOSH/MSHA approved respirators (negative pressure type) under specified conditions (consult your industrial hygienist). Engineering or administrative controls should be implemented to reduce exposure.
SKIN PROTECTION	Wear resistant gloves, such as: polyvinyl alcohol, nitrile.
ENGINEERING CONTROLS	Good general ventilation (typically 10 air changes per hr) should be used. Ventilation rates should be matched to conditions. Local exhaust ventilation or an enclosed system may be needed to control air contamination below that of the lowest TLV/per rated hazardous ingredient.
OTHER PROTECTIVE EQUIPMENT	To prevent repeated or prolonged skin contact, wear impervious clothing and boots.
OTHER HYGIENIC AND WORK PRACTICES	Use good personal hygiene work practices. Wash hands before eating, drinking, smoking or using toilet facilities. Promptly remove soiled clothing and wash before reuse.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

INITIAL BOILING POINT	0 - 425 ° F (-18 - 182 ° C) (naphtha), -44.0 ° F (-42.2 ° C) @ 760.00 mm Hg (propellant)
VAPOR PRESSURE	40 mm Hg @ 68 ° F (naphtha)
VAPOR DENSITY (air = 1)	>3 Heavier than air
SPECIFIC GRAVITY (water = 1)	0.71 (Liquid phase) 5.86 lb/gal (702 g/l)
% VOLATILES	100%
VOC CONTENT	5.86 lbs./gal (702 g/L) @ 60°F liquid phase
EVAPORATION RATE	3.2 -naphtha; faster than ether - propellant
APPEARANCE	Colorless liquid/gas
ODOR	Strong solvent

**MATERIAL SAFETY DATA SHEET****SECTION 10. STABILITY AND REACTIVITY**

STABILITY	Stable
HAZARDOUS POLYMERIZATION	Cannot occur
INCOMPATIBILITY (materials or conditions to avoid)	Strong oxidizers, strong acids
HAZARDOUS DECOMPOSITION PRODUCTS	Carbon dioxide, carbon monoxide, various hydrocarbons

SECTION 11. TOXICOLOGICAL INFORMATION

This product contains light and medium aliphatic hydrocarbon blend. The short-term inhalation toxicity is low. Breathing small amounts of vapors during normal handling is not likely to cause harmful effects; breathing large amounts may be harmful. Symptoms typically seen at air concentrations above the recommended exposure limits may include: irritation to nose, throat and respiratory system, metallic taste, muscle weakness. Initial central nervous system (CNS) excitation (euphoria, exhilaration, light-headedness) followed by CNS depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness) and other CNS effects (confusion, impaired coordination, coma and possibly death).

COMPONENTS:

Hydrocarbon Solvent Blend:	Inhalation - LC50	15,000 ppm (v) (Rat) 4 hour(s)
Light Aliphatic Solvent Naphtha:	Dermal - LD50	>2.84 g/kg (Rat)
Light Aliphatic Solvent Naphtha:	Oral - LD50	>7.1 g/kg (Rat)
Heptane(n) (142-82-5):	Inhalation - LC50	103 gm/m ³ (Rat) 4 hours

Contains no ingredients that are IARC, NTP or OSHA listed carcinogens.

SECTION 12. ECOLOGICAL INFORMATION

This formulation has not been tested for environmental effects. Spills from aerosol cans are unlikely and generally of small volume. Unintentional release of this material is not expected to spread or pose a serious ecological hazard if released.

COMPONENT ENVIRONMENTAL TOXICITY:

Heptane(n) (142-82-5): LC50 (24 hr) goldfish: 4.0 mg/L.; LC50 (24 hr) mosquito fish: 4900 mg/L.; LC50 (96 hr) cichlid fish: 375 mg/L.

Light Aliphatic Solvent Naphtha: No ecotoxicity data available

SECTION 13. DISPOSAL CONSIDERATIONS

Do not incinerate aerosol cans unless by a facility equipped to do so. Allow solvents on cleaning rags, papers, etc to evaporate, and then dispose of in safety containers. Waste disposal - empty cans completely and puncture with **approved** devices made to collect contents and designed for this purpose. Punctured empty cans may then be disposed in usual trash removal.

Disposal of material should be done in accordance with all Federal, State and Local environmental control regulations. Unused, the contents exhibits the USEPA hazardous waste characteristic for ignitability (RCRA waste code D001).

SECTION 14. TRANSPORTATION INFORMATION

49CFR: ORM D (Consumer Commodity)

IATA: Consumer Commodity, ID 8000

IMDG: Aerosols, 2, UN 1950, Limited Quantities

DOT PROPER SHIPPING NAME (49 CFR 172.101)	Aerosols
HAZARD CLASS (DOT, IATA)	2.1
HAZARD CLASS (IMO)	2
ID NUMBER	UN 1950
PACKING GROUP	Not Applicable



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LABELS REQUIRED	Flammable Gas (49 CFR 172.417)
2000 NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER	126
EmS NUMBER	2-13

Be sure to refer to the DOT, IATA, or IMDG regulations before shipping any hazardous material.

SECTION 15. REGULATORY INFORMATION

FEDERAL REGULATIONS (USA)

This product is hazardous according to OSHA 29 CFR 1910.1200

TOXIC SUBSTANCES CONTROL ACT: All substances contained in this product are listed in the toxic substance control act (TSCA) chemical substance inventory.

SARA TITLE III: SARA Hazard Categories (311/312): P3 Fire Hazard. H1 Immediate (Acute) Health Hazard. H2 Delayed (Chronic) Health Hazard.

EPA - CLEAN WATER ACT (CWA): Spills entering surface waters or any watercourses or sewers entering/leading to surface waters that cause a sheen must be reported to the National Response Center, 800-424-8802. Keep out of surface waters and any watercourses or sewers entering or leading to surface waters.

STATE REGULATIONS (USA)

This product contains the following substances specifically listed by individual states; other product specific health and safety date in other sections of the MSDS may also be applicable for state requirements. For details on state regulatory requirements contact the appropriate state agency.

California, New Jersey, Florida, Pennsylvania, Minnesota, and Massachusetts have or may have the following chemical(s) on their Right-To-Know Chemical List:

- Heptane (142-82-5) * 14 - 30% by weight
- Toluene (108-88-3) * < 0.2% by weight
- * Component(s) of Light Aliphatic Naphtha

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (Proposition 65):

- Toluene (108-88-3) < 0.2% by weight CA_65R

CA_65R - This product contains toluene, a chemical known to the State of California to cause reproductive toxicity.

INTERNATIONAL REGULATIONS

INVENTORY STATUS (components):

Light aliphatic hydrocarbons - Listed on the following international inventories: AICS (AUSTRAILA), DSL (CANADA), ECL (SOUTH KOREA), EINECS (EUROPE), PICCS (PHILIPPINES),

Heptane - Listed on the following international inventories: AICS (AUSTRAILA), DSL (CANADA), ECL (SOUTH KOREA), EINECS (EUROPE), ENCS (JAPAN),

CANADA:

WHMIS HAZARD CLASSIFICATION: Class B Division 2: Flammable liquids having flashpoint below 37.8 °C (100 °F)
This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

WHMIS SYMBOLS: B Flammable;



**MATERIAL SAFETY DATA SHEET****SECTION 16. OTHER INFORMATION****NFPA RATINGS**

HEALTH	2	FLAMMABILITY	4	REACTIVITY	0
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Use and store in a manner that will prevent accidental rupture of aerosol cans. Containers of this product may be hazardous when emptied. Since emptied containers retain product residues (vapors, liquid, and/or solids), all hazard precautions given in this data sheet must be observed.

Prepared by: Tech International Environmental Health and Safety Department, P.O. Box 486, Johnstown, OH, 43031-0486, USA

Revision#: 6

Revision Date: 09/12/2002

Revisions since last change (discussion): This MSDS has been revised to meet the requirements of the following standards: EEC Directive 2001/58/EC (91/155/EEC), ANSI Z400.1-1998 and Canadian CPR.

This product has been classified according to the hazard criteria of the Canada's CPR and the MSDS contains all the information required by the CPR. This MSDS complies with the OSHA Hazard Communication Standard (29 CFR 1910.1200).

There are no changes to the health, safety, precautionary data, or regulatory data. We do, however, encourage you to take the opportunity to reread the sheet and review the information.

The information contained herein was received from our raw material suppliers and other sources and is believed to be accurate. This information is provided in compliance with national and local regulations, where applicable, to give warning of actual and assumed hazards, and to inform of generally applicable precautions and control measures which are known to Tech International. Hazard information is based on available scientific evidence, but is not always obtained from sources under the direct control of Tech International. Tech International makes no warranty or representation that the information is accurate, reliable, complete or representative and Buyer may rely on thereon only at Buyer's own risk. Tech International warrants only that it has made no effort to censor, other than trade secret information, or to conceal hazards of its products.

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- In North America call our Fax-on-Demand system at 888-612-8324, ext. 8324 (TECH).
- Outside North America call the international dialing code for the United States followed by 740 363-7715, ext. 8324. Then follow the instructions to leave a message with the requested document numbers and the country, city code and fax number.
- Also see www.techtirerepairs.com for latest MSDSs and instructions for fax-on-demand service.