

MATERIAL SAFETY DATA SHEET

Product Name: **Chemical Vulcanizing Cement**

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SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Non-Flammable Buffing Solution		
PART NUMBER(S): 14-490		
GENERAL USE: Buffing solution to clean tire prior to repairing		
PRODUCT DESCRIPTION: Colorless liquid,irritating order at high temperature		
MANUFACTURER'S NAME: 31 Incorporated		DATE PREPARED: Jan. 4, 2013
		SUPERSEDES: June 1, 2011
		STREET ADDRESS: 100 Enterprise Drive
		FOR INFORMATION, CONTACT: (740) 498-8324; info@31inc.com
		CITY, STATE, ZIP, COUNTRY Newcomerstown, OH 43832 USA
		EMERGENCY TELEPHONE NUMBER: CHEM • TEL: (800) 255-3924 or (813) 248-0585

SECTION 2 - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS	% (by weight)	CAS #	TLV UNITS	Hazard Symbol	RISK PHRASES (Full Text Section 16)
Tetrachloroethylene (PERC)	>95	127-18-4		N/A	
1-Bromopropane (nPB)	1 - 3	106-94-5		N/A	
Carbon Dioxide	1 - 3	124-38-9			

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW	
ACCUTE EFFECTS OF OVEREXPOSURE: Dizziness, drowsiness, throat irritation	
Inhalation:	Dizziness may occur at concentrations of 200ppm. Progressively higher levels may also cause nasal irritation, nausea, incoordination, and drunkenness. Very high levels or prolonged exposure could lead to unconsciousness and death.
Skin:	Short single exposure may cause skin irritation. Prolonged exposure may cause severe skin irritation, even a burn. A single prolonged exposure is not likely to result in the material being absorbed through the skin in harmful amounts.
Eyes:	May cause slight temporary eye irritation. Vapors may irritate the eyes at concentrations of 100 ppm.
Ingestion:	Single dose oral toxicity is considered to be extremely low. Swallowing large amounts may cause injury if aspirated into the lungs. This may be rapidly absorbed through the lungs and result in injury to other body systems.
CHRONIC EFFECTS OF OVEREXPOSURE:	
Repeated contact with skin may cause drying or flaking of skin. Excessive or long term exposure to vapors may increase sensitivity to epinephrine and increase myocardial irritability.	
OTHER HEALTH HAZARDS:	
N/A	

SECTION 4 - FIRST AID MEASURES

INHALATION:	Remove person to fresh air. Keep person calm. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Call a physician.
SKIN:	Remove contaminated clothing and wash with soap and water. Call a physician if irritation persists.. Wash contaminated clothing prior to re-use.
EYES:	Flush eyes immediately with water for at least 15 minutes. If irritation persists, seek medical attention.
INGESTION:	Do NOT give anything by mouth or induce vomiting. Seek immediate medical attention.

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SECTION 5 - FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: This material does not burn. Foam

FIRE FIGHTING PROCEDURES: Use of self contained breathing apparatus is recommended for fire fighters

UNUSUAL FIRE AND
EXPLOSION HAZARDS: N/A

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Absorb all possible. Keep out of drains. Do not breath vapors.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Vapors of this product are heavier than air and will collect in low areas. Make sure ventilation removes vapors from low areas. Do not eat, drink or smoke while using this product.

Store in a cool dry area out of direct sunlight. Aerosol cans must be maintained below 120F to prevent cans from rupturing.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

HAZARDOUS COMPONENTS	NIOSH				ACGIH			
	TWA ppm	TWA mg/m3	STEL ppm	STEL mg/m3	TWA ppm	TWA mg/m3	STEL ppm	STEL mg/m3
Tetrachloroethylene (PERC)	100		N.E.		25		100	
1-Bromopropane (nPB)	N.E.		N.E.		10		N.E.	
Carbon Dioxide	5000		30000v		5000		30,000	

N.E. Not established (v) vacated

PERSONAL PROTECTION:

Respiratory Protection: None required for normal work where adequate ventilation is provided. Use NIOSH-approved self-contained positive pressure respirators in low circulation areas and for emergencies.

Ventilation: To eliminate vapor concentrate, use in a well ventilated area.

Protective Gloves: Use protective gloves such as PVA, Teflon or Viton. Use full protective clothing if there is prolonged or repeated contact of liquid with skin.

Eye Protection: Protective eyeglasses or chemical safety goggles.
Refer to 29 CFR 1910.133 or European Standard EN 166.

Other: Apron, boots (solvent resistant)

Work / Hygienic Practices: Practice safe workplace habits. Minimize body contact with this product.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR:
liquid colorless irritating odor

VAPOR PRESSURE 13mmHg @ 68F

BOILING POINT / RANGE:
250 F

SPECIFIC GRAVITY:
1.62

FREEZING POINT:
ND

SOLUBILITY IN WATER (% by weight):
N/A

FLASH POINT (Test Methods):

V.O.C.:
wt% 2 g/L 32.9 lbs./gal 0.27

FLAMMABLE LIMITS IN AIR (% by volume):

VAPOR DENSITY:
5.76 air = 1

EVAPORATION RATE:
>1 (NBA = 1)

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SECTION 10 - STABILITY AND REACTIVITY

STABILITY:	UNSTABLE:	CONDITIONS TO AVOID:	Avoid direct sunlight and open flames.
	STABLE: XXX		
INCOMPATIBILITY (Materials to Avoid):	Aluminum powders, magnesium powders, potassium, sodium and zinc powder. Avoid unintended contact with amines. Avoid contact with strong bases and strong oxidizers.		
HAZARDOUS COMBUSTION or DECOMPOSITION PRODUCTS:	Hydrogen chloride, trace amounts of chlorine and phosgene		
HAZARDOUS POLYMERIZATION:	MAY OCCUR:	CONDITIONS TO AVOID:	Aluminum in pressured fluid
	WILL NOT OCCUR: XXX		

SECTION 11 - TOXICOLOGICAL INFORMATION

HAZARDOUS COMPONENTS	CAS # EINECS #	LD50 OF INGREDIENT (Specify Species and Route)	LC50 OF INGREDIENT (Specify Species)
Tetrachloroethylene	127-18-4	rabbit dermal	
Tetrachloroethylene	127-18-4	rat oral	
Tetrachloroethylene	127-18-4	mouse inhalation	

SECTION 12 - ECOLOGICAL INFORMATION

Long-term toxicological studies have not been conducted for this product.
Biodegradation under aerobic conditions is below detectable limits. Biodegradation may occur under anaerobic conditions. Biodegradation rate may increase in soil and/or water with acclimation.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of in accordance with Local, State, and Federal Regulations. This
The dispensed liquid product is a RCRA hazardous waste for toxicity with the following potential waste codes: U210,F001, F002,F039.
Aerosol containers should be emptied and depressurized before disposal. Empty containers may be recycled. Any liquid product
should be managed as a hazardous waste.

SECTION 14 - TRANSPORT INFORMATION

PROPER SHIPPING NAME: TOXIC LIQUID, ORGANIC, N.O.S.	
DOT HAZARD CLASS / Pack Group: Consumer Commodity	IATA HAZARD CLASS/Pack Group: 6.1 PG III
REFERENCE:	IMDG HAZARD CLASS: 6.1 PG III
UN / NA IDENTIFICATION NUMBER:	RID/ADR Dangerous Goods Code:
LABEL: ORM-D	UN TDG Class / Pack Group:
HAZARD SYMBOLS:	
Note: Transportation information if for reference only. Client is urged to consult CFR 49 parts 100 - 177, IMDG, IATA, EU, United Nations TDG, and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials, and methods of shipping.	

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SECTION 15 - REGULATORY INFORMATION

TSCA (USA - Toxic Substance Control Act)

All components of this product are listed on the U.S. Toxic Substance Control Act Chemical Inventory (TSCA Inventory) or are exempted from listing because a Low Volume Exemption has been granted in accordance with 40 CFR 723.50.

SARA TITLE III (USA - Superfund Amendments and Reauthorization Act)

311/312 Hazard Categories:

Release of pressure YES Acute Health Hazard YES Chronic Health Hazard YES

313 Reportable Ingredients:

Tetrachloroethylene (97.7%)

CERCLA (USA - Comprehensive Response Compensation and Liability Act)

None

CPR (Canadian Controlled Products Regulations)

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

IDL (Canadian Ingredient Disclosure List)

Components of this product identified by CAS number are listed on the Canadian Ingredient Disclosure List are shown in Section 2.

DSL / NDSL (Canadian domestic Substances List / Non-Domestic Substances List)

Components of this product identified by CAS number are listed on the DSL or NDSL and may or may not be listed in Section 2 of this document. Only ingredients classified as "hazardous" are listed in Section 2 unless otherwise indicated.

EINECS (European Inventory of Existing Commercial Chemical Substances)

Components of this product identified by CAS numbers are on the European Inventory of Existing Commercial Chemical Substances.

RISK PHRASES:

R36/38 Irritating to eyes and skin

SYMBOL(S) REQUIRED FOR LABEL:

ORM-D



Irritant



SAFETY PHRASES:

S2 Keep out of reach of children

SECTION 16 - OTHER INFORMATION

NOTES & FULL R-PHRASE TEXT:

R36/38 Irritating to eyes and skin

HMIS HAZARD RATINGS:

HEALTH	2
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTIVE EQUIPMENT	B

REVISION SUMMARY:

MSDS PREPARED BY:

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