72408

フェンリー フェーラン 3 Johnsens Non-chlorinated Brake Parts Cleaner Trade Name:

MSDS NO. 2413 **Revision Date:** 12/18/2007 12/18/2007 **Date Printed**

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Johnsens Non-chlorinated Brake Parts Cleaner

Chemical Family: Non-Chlorinated Hydrocarbon

Synonyms: None

24-Hour Emergency Information: CHEMTREC (800) 424-9300 Emergency Telephone (24 hr.):

Supplier: Technical Chemical Company, P.O. Box 139, Cleburne, Texas 76033

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight %	OSHA TWA	OSHA STEL	OSHA SKIN
Toluene	30-40	Not Listed	Not Listed	Not Listed
108-88-3				
Acetone	30-40	Not Listed	Not Listed	Not Listed
67-64-1				
Methanol	20-30	Not Listed	Not Listed	Not Listed
67-56-1				
Carbon Dioxide	5-15	Not Listed	Not Listed	Not Listed
124-38-9				

Component	Weight %	OSHA Z PEL	OSHA Z TWA	OSHA Z Ceiling
Toluene 108-88-3	30-40	Not Listed	200 ppm 375 mg/m ³ 100 ppm	300 ppm
Acetone 67-64-1	30-40	2400 mg/m³ 1000 ppm	1800 mg/m³ 750 ppm	Not Listed
Methanol 67-56-1	20-30	260 mg/m³ 200 ppm	260 mg/m ³ 200 ppm	Not Listed
Carbon Dioxide 124-38-9	5-15	9000 mg/m³ 5000 ppm	18000 mg/m³ 10000 ppm	Not Listed

Component	ACGIH TLV TWA	ACGIH TLV STEL	ACGIH TLV Ceiling
Toluene 108-88-3	50 ppm	Not Listed	Not Listed
Acetone 67-64-1	500 ppm	750 ppm	Not Listed
Methanol 67-56-1	200 ppm	250 ppm	Not Listed
Carbon Dioxide 124-38-9	5000 ppm	30000 ppm	Not Listed

Other: This product does not contain Normal Hexane (N-Hexane).

3. HAZARDS IDENTIFICATION

Emergency Overview: Danger: Poison. Extremely Flammable. Content under pressure. Ingestion of even small amounts of

methanol can cause blindness and death. This material is an eye and skin irritant. Harmful if absorbed through the skin. Keep away from heat, sparks and flame. Gross inhalation overexposure may cause: respiratory track irritation, kidney damage, blood, liver damage, lung damage and central nervous system

depression.

HMIS Classification: Health: *2 Flammability: 3 Physical Hazard: 2

NFPA Rating: Health: 2 Flammability: 3 Reactivity: 0

Trade Name: Johnsens Non-chlorinated Brake Parts Cleaner

MSDS NO. 2413 **Revision Date:** 12/18/2007 12/18/2007 **Date Printed**

FIRST AID MEASURES

Eye Contact: In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes

and get medical attention immediately after flushing.

Ingestion: If swallowed, do NOT induce vomiting. Call a physician immediately. Never give anything by mouth to an

unconscious person. If vomiting occurs, keep head lower than hips to prevent aspiration.

If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If

breathing is difficult give oxygen. Get medical attention.

Skin Contact: In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. Get

medical attention. Remove contaminated clothing and shoes, and launder before reuse.

FIRE FIGHTING MEASURES

Flammable Properties

Inhalation:

Flash Point °F(°C): -20 F (Lowest Component)

Flash Point Method: TAG Closed Cup

Flammable Limits in Air - Lower (%): 2.5% (Lowest Component) Flammable Limits in Air - Upper (%): 12.8% (Lowest Component) Autoignition Temperature °F(°C): 725 F (Lowest Component)

Extinguishing Media: Dry chemical. Carbon dioxide. Alcohol foam. Use water spray to keep containers cool that are exposed to

heat or flames.

Protection Of Fire-Fighters:

Special Fire-Fighting Procedures: Wear approved positive-pressure self-contained breathing apparatus and protective clothing. Vapor may

cause flash fire.

Hazardous Combustion Products: Carbon Dioxide. Carbon Monoxide. Formaldehyde.

NFPA Level 3 Aerosol **Aerosol Comments:**

ACCIDENTAL RELEASE MEASURES 6.

Personal Precautions:

Spill Procedures:

Action to be taken if material is released

or spilled:

Wear appropriate protective clothing and equipment to prevent skin and eye contact. Contain any liquid from leaking containers. Avoid all sources of ignition; heat, sparks and open flames.

Do not puncture or incinerate container. Contents under pressure. Wear proper protective equipment as specified in the protective equipment section. Remove sources of ignition. Leaking containers should be removed to an isolated, well-ventilated area and transferred to other suitable containers. Wipe, scrape, or soak up in an inert material and put in a container intended for flammable materials for disposal. Persons

not trained should evacuate area.

Environmental Precautions: Do not allow to enter sanitary drains, sewer or surface and subsurface waters. Keep out of lakes, ponds or

streams.

HANDLING AND STORAGE 7.

Handling and Storage:

Caution: Contents under pressure. Keep away from heat and open flame. Use only in a well ventilated area. Avoid breathing vapors, if exposed to high vapor concentration, leave area at once. Avoid contact with skin and eyes. Do not puncture, incinerate or store above 120 F. Exposure to high temperatures may cuase bursting. DO NOT store in the passenger compartment of an automobile.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Use in a well ventilated area. Local exhaust ventilation as necessary to maintain exposures to within **Engineering Controls:**

applicable limits. Eyewash stations. Showers.

Chemical goggles; also wear a face shield if splashing hazard exists. Eves:

Skin Protection: Avoid skin contact. Wear protective clothing and gloves.

Respiratory Protection: Do not breath mist or vapor. Use in a well ventilated area. Appropriate respiratory protection shall be worn

when applied engineering controls are not adequate to protect against inhalation exposure.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colorless to pale yellow liquid

MILD Odor:

Not Determined pH Value: Vapor Pressure: Not Determined Vapor Density (Air=1): Approximately 2.0

Trade Name: Johnsens Non-chlorinated Brake Parts Cleaner

 MSDS NO.
 2413

 Revision Date:
 12/18/2007

 Date Printed
 12/18/2007

PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point (°F):

133 F (Lowest Component) < -110 F.

Melting/Freezing Point: Solubility in Water:

< -110 F. 64 %

Bulk Density at 20°C: Molecular Weight: Specific Gravity (H20=1): Viscosity: Not Determined Mixture .82 @ 68 F. Not Determined. Not Determined

Evaporation Rate: VOC Content(%):

60%

Decomposition Temperature:

Not Determined

10. STABILITY AND REACTIVITY

Chemical Stability:

Stable under normal conditions of handling, use and transportation.

Conditions to Avoid:

Keep away from heat, sparks and flame. Avoid any source of ignition. Do not expose to heat or store at

temperatures above 120 F.

Materials to Avoid:

Nitric acid. Sulfuric Acid. Strong acids. Contact with oxidizing agents. Chlorine compounds. Alkalis. Potassium t-butoxide. Beryllium Dihydride. Magnesium. Nitrogen Tetraoxide. Strong bases. Methanol has an explosive reaction with chloroform + soduim methoxide and diethyl zinc. Methanol has a violent reaction with alkyl aluminum salts, acetyl bromide, chloroform + sodium hydroxide, cyanuric chloride, nitric acid, etc.

Hazardous Decomposition Products:

Hazardous Polymerization:

Carbon monoxide. Carbon dioxide. Formaldehyde.

WILL NOT OCCUR

11. TOXICOLOGICAL INFORMATION

Toxicological Data:

Component	Route	Species	Dose
Toluene 108-88-3	Inhalation	Rats	LC50 49 gm/m³/4H
Acetone	Inhalation	Rats	LC50 50100 mg/m ³ /8H
67-64-1 Methanol	Inhalation	Rats	LC50 64,000 ppm
67-56-1			,
Carbon Dioxide 124-38-9	NA NA	NA	Not known.

Carcinogenicity:

Component	IARC	NTP	OSHA
Toluene 108-88-3	Group 3 (not classifiable)	Not Listed	Not Listed
Acetone 67-64-1	Not Listed	Not Listed	Not Listed
Methanol 67-56-1	Not Listed	Not Listed	Not Listed
Carbon Dioxide 124-38-9	Not Listed	Not Listed	Not Listed

12. ECOLOGICAL INFORMATION

Remarks: Ecological testing has not been conducted on this product.

13. DISPOSAL CONSIDERATION

Waste Classification: Residues and spilled material are hazardous waste due to ignitability.

Waste Management:

Not determined.

Trade Name: Johnsens Non-chlorinated Brake Parts Cleaner

MSDS NO. 2413 12/18/2007 Revision Date: **Date Printed**

12/18/2007

13. DISPOSAL CONSIDERATION

Disposal Method: Disposal should be made in accordance with federal, state and local regulations.

14. TRANSPORTATION INFORMATION

U.S. DOT:

Proper Shipping Name: Hazard Class:

ORM-D CONSUMER COMMODITY

UN/NA Number: DOT Packing Group: ORM-D Not Applicable Not Applicable

IMDG:

Proper Shipping Name:

Aerosols (Limited Quantity)

Hazard Class:

Hazard Subclass: UN No.: Packing Group:

Not determined. UN1950 Not Applicable.

Marine Pollutant:

15. REGULATORY INFORMATION

US Federal Regulations:

Component	SARA 313	SARA 302	TPQ	RQ	
Toluene	Listed.	Not Listed	Not Listed	Not Listed	
108-88-3					
Acetone	Not Listed	Not Listed	Not Listed	Not Listed	
67-64-1					
Methanol	Listed.	Not Listed	Not Listed	Not Listed	
67-56-1					
Carbon Dioxide	Not Listed	Not Listed	Not Listed	Not Listed	
124-38-9					

US OSHA HEALTH CLASSIFICATION:

Hazardous per OSHA 29 CFR 1910.1200

SARA 311/312 Hazard Catagories:

Not Determined.

State Regulations:

Component	California Prop. 65 Cancer list	California - Prop 65 Developmental Toxicity	California Prop. 65 Reproductive Female	California Prop. 65 Reproductive Male
Toluene 108-88-3	Not Listed	Listed: January 1, 1991 Developmental toxin.	Not Listed	Not Listed
Acetone 67-64-1	Not Listed	Not Listed	Not Listed	Not Listed
Methanol 67-56-1	Not Listed	Not Listed	Not Listed	Not Listed
Carbon Dioxide 124-38-9	Not Listed	Not Listed	Not Listed	Not Listed

Trade Name: Johnsens Non-chlorinated Brake Parts Cleaner

 MSDS NO.
 2413

 Revision Date:
 12/18/2007

 Date Printed
 12/18/2007

Component	New Jersey Right-to-Know List:
Toluene	Substance no. 1866
108-88-3	Substance no. 2422
100-00-0	Substance no. 2423
	Substance no. 2425
	Substance no. 2426
	Substance no. 2427
	Substance no. 2428
	Substance no. 2429
	Substance no. 2430
Acetone	Substance no. 0006
67-64-1	Listed
0. 01.	Substance no. 2422
	Substance no. 2423
	Substance no. 2425
	Substance no. 2426
	Substance no. 2427
	Substance no. 2428
	Substance no. 2429
	Substance no. 2430
Methanol	Substance no. 2079
67-56-1	Substance no. 2422
	Substance no. 2423
	Substance no. 2425
	Substance no. 2426
	Substance no. 2427
	Substance no. 2428
	Substance no. 2429
	Substance no. 2430
0-1	Substance no. 1222
Carbon Dioxide	Substance no. 0343
124-38-9	

U.S. TSCA: Canadian Inventory: The components of this product are listed on the TSCA Inventory.

The components of this product are listed on the Canadian DSL or NDSL Inventory.

16. OTHER INFORMATION

General Notes: Disclaimer: Do not allow undiluted material or large quantities to reach groundwater, bodies of water or sewer system. The information and recommendations contained herein are based upon tests believed to be reliable. However, the manufacturer/distributor of this product does not guarantee their accuracy or completeness NOR SHALL ANY OF THIS INFORMATION CONSTITUTE A WARRANTY, WHETHER EXPRESSED OR IMPLIED, AS TO THE SAFETY OF THE GOODS, THE MERCHANTABILITY OF THE GOODS, OR THE FITNESS OF THE GOODS FOR A PARTICULAR PURPOSE. Adjustment to conform to actual conditions of usage may be required. The manufacturer/distributor assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied.