

**SAFETY DATA SHEET**

U.S. HazCom GHS Format



Date Prepared : 10/03/2015  
 MSDS No : 29045  
 Date Revised : 10/05/2015  
 Revision No : 1

**HS Non-Chlor Brake Cleaner****1. PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME:** HS Non-Chlor Brake Cleaner  
**GENERAL USE:** Carburetor Cleaner  
**PRODUCT DESCRIPTION:** Brake Cleaner  
**PRODUCT CODE:** 29.045  
**PRODUCT FORMULATION NAME:** Brake Cleaner Non ARB  
**GENERIC NAME:** Brake Cleaner

**MANUFACTURER**

HERRERO & SONS  
 7676 NW 82nd STREET  
 MIAMI, FL 33166

**Emergency Contact:** G HERRERO  
**Customer Service:** 1-305-885-7922  
**E-Mail:** ap@herreroandsons.com

**24 HR. EMERGENCY TELEPHONE NUMBERS**

**Poison Control Center (Medical) :** (877) 800-5553  
**CANUTEC (Canadian Transportation) :** (613) 996-6666  
**CHEMTREC (US Transportation) :** (800) 424-9300

**2. HAZARDS IDENTIFICATION****GHS CLASSIFICATIONS****Health:**

Eye Irritation, Category 2  
 Target Organ Toxicity (Single exposure), Category 1  
 Reproductive Toxicity, Category 2  
 Aspiration Toxicity, Category 1  
 Skin Irritation, Category 2  
 Acute Toxicity (Oral), Category 3  
 Acute Toxicity (Dermal), Category 3  
 Acute Toxicity (Inhalation), Category 3

**Physical:**

Flammable Aerosols, Category 1

**GHS LABEL**

**THIS PRODUCT IS NOT FOR SALE OR DISTRIBUTION IN THE STATE OF CALIFORNIA or OTC States.**



Flame

Skull and  
crossbonesHealth  
hazardExclamation  
mark

**SIGNAL WORD:** DANGER

**HAZARD STATEMENTS**

H222: Extremely flammable aerosol.  
 H229: Pressurized container: may burst if heated.  
 H301: Toxic if swallowed.  
 H319: Causes serious eye irritation.  
 H336: May cause drowsiness or dizziness.

**PRECAUTIONARY STATEMENT(S)****Prevention:**

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P211: Do not spray on an open flame or other ignition source.  
 P251: Pressurized container: Do not pierce or burn, even after use.  
 P260: Do not breathe dust/fume/gas/mist/vapours/spray.  
 P264: Wash ... thoroughly after handling.  
 P270: Do not eat, drink or smoke when using this product.  
 P271: Use only outdoors or in a well-ventilated area.  
 P281: Use personal protective equipment as required.

**Response:**

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P312: Call a POISON CENTER/doctor/...if you feel unwell.  
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P338: Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337+P313: If eye irritation persists: Get medical advice/attention.  
 P308+P313: IF exposed or concerned: Get medical advice/ attention.  
 P302+P352: IF ON SKIN: Wash with plenty of water/...  
 P332+P313: If skin irritation occurs: Get medical advice/attention.  
 P362+P364: Take off contaminated clothing and wash it before reuse.  
 P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
 P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor/...

**Storage:**

P403+P233: Store in a well-ventilated place. Keep container tightly closed.  
 P405: Store locked up.  
 P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

**Disposal:**

P501: Dispose of contents: All disposal practices must be in accordance with local, state, national and international regulations.

**EMERGENCY OVERVIEW**

**PHYSICAL APPEARANCE:** Aerosolized Liquid

**IMMEDIATE CONCERNS:** DANGER! EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE. CONTENTS UNDER PRESSURE. MAY AFFECT THE CENTRAL NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. CAUSES EYE IRRITATION. PROLONGED OR REPEATED CONTACT MAY DRY THE SKIN AND CAUSE IRRITATION AND BURNS.

**POTENTIAL HEALTH EFFECTS**

**EYES:** Causes eye irritation on direct contact.

**SKIN:** May cause mild skin irritation. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, drying and cracking of skin, and skin burns. Passage of this material into the body through the skin is possible, and may add to toxic effects from breathing or swallowing.

**INGESTION:** Ingestion of small amounts may cause vomiting. This material presents a severe aspiration danger and may result in pulmonary edema and sever lung damage.

**INHALATION:** Breathing vapors may cause harmful central nervous system effects including headache, dizziness, drowsiness, loss of consciousness.

**IRRITANCY:** May cause irritation to the eyes, skin and respiratory system.

**HEALTH HAZARDS:** Pre-existing disorders or diseases of the eyes, skin, or central nervous system (CNS) may be aggravated by exposure.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
N-heptane	~ 10 - 40	142-82-5
Acetone	~ 10 - 40	67-64-1
Methanol	~ 5 - 25	67-56-1
Xylenes (o-,m-,p- Isomers)	~ 0 - 15	1330-20-7
Benzene, Methyl-	~ 0 - 15	108-88-3
2-propanol	~ 0 - 15	67-63-0
Carbon Dioxide	~ 5 - 8	124-38-9

### 4. FIRST AID MEASURES

**EYES:** Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

**SKIN:** Immediately remove all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. If irritation develops or persists seek medical attention. Wash contaminated clothing before re-use.

**INGESTION:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Drink plenty of water. Call a POISON CENTER or doctor/physician if exposed or you feel unwell.

**INHALATION:** Move the exposed person to fresh air at once. If breathing stops, provide artificial respiration. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention.

#### SIGNS AND SYMPTOMS OF OVEREXPOSURE

**EYES:** Burning. Red eyes. Tearing.

**SKIN:** Contact may cause skin irritation.

**NOTES TO PHYSICIAN:** Treat symptomatically.

**COMMENTS:** If you feel unwell, seek medical advice (show the label where possible).

### 5. FIRE FIGHTING MEASURES

**FLAMMABLE CLASS:** U.F.C. (NFPA 30B) Level 3 Aerosol.

**GENERAL HAZARD:** Highly Flammable.

**EXTINGUISHING MEDIA:** Use water fog, foam, carbon dioxide or dry chemical. Cool fire exposed containers with water.

**HAZARDOUS COMBUSTION PRODUCTS:** Hazardous decomposition products: Carbon Oxides and Formaldehyde.

**EXPLOSION HAZARDS:** Aerosol containers, when exposed to heat from fire, may build pressure and explode. Vapors may accumulate in a confined space and create a flammable atmosphere.

**FIRE FIGHTING PROCEDURES:** In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Water spray may be used to keep fire exposed containers cool.

**FIRE FIGHTING EQUIPMENT:** Respiratory and eye protection are required for fire fighting personnel. Full protective equipment (Bunker Gear) and self contained breathing apparatus (SCBA) should be used for all indoor fires and any significant outdoor fires. For small outdoor fires, which may easily be extinguished with a portable fire extinguisher, use of a SCBA may not be required.

**FIRE EXPLOSION:** Contents under pressure. Keep away from ignition source and open fire. Exposure of containers to extreme heat and flames can cause them to rupture often with violent force. Extremely flammable liquid and vapor. A vapor and air mixture can create an explosion hazard in confined spaces. Vapors are heavier than air and can travel along surfaces to remote ignition sources and flash back. Burning may produce carbon monoxide, carbon dioxide, silicone dioxide and formaldehyde.

**SENSITIVE TO STATIC DISCHARGE:** None

**SENSITIVITY TO IMPACT:** None

**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of carbon and formaldehyde.

## 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Avoid runoff into storm sewers and ditches which lead to waterways.

**LARGE SPILL:** Always employ the proper personal protective equipment. Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas through the use of berms. Collect liquid with explosion proof pumps if possible. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Fluorocarbon alcohol resistant foams may be applied to spill to diminish vapor and fire hazard.

### ENVIRONMENTAL PRECAUTIONS

**WATER SPILL:** Depending on the size of the spill and the movement characteristics of the water into which it entered, consider use of booms, underflow or overflow dams. Diversion of the material is also an option. Mechanical skimmers, pads and other absorbent materials may be considered as well.

**LAND SPILL:** Construct temporary dikes of dirt, sand, or any appropriate readily available noncombustible (sawdust) material to prevent spreading of the material.

**AIR SPILL:** If a leak or spill has not ignited, use water spray to disperse the vapors, to protect personnel attempting to stop the leak, and to flush spills away from exposures.

**GENERAL PROCEDURES:** Eliminate all ignition sources. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. For Large Spills: Use water spray to disperse vapors and dilute spill to a nonflammable mixture. Prevent runoff from entering drains, sewers, or streams. Dike for later disposal.

**SPECIAL PROTECTIVE EQUIPMENT:** Highly flammable liquid and vapor. Remove source of heat, sparks, flame, impact, friction, electricity, and any other sources of ignition. No smoking.

**COMMENTS:** Remove all sources of ignition. Isolate the hazard area. Keep unnecessary and unprotected personnel from entering the area of the release.

## 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** Avoid contact with eyes, skin, and clothing. Avoid breathing vapors or aerosols. Use only with adequate ventilation. Keep away from heat, sparks, hot surfaces and open flames. Wash thoroughly with soap and water after handling. Keep containers closed when not in use. Keep out of the reach of children. Do not puncture or incinerate containers.

**HANDLING:** Handle and use in a manner consistent with good industrial/manufacturing techniques and practices. Open and handle with care. Do not handle near heat, sparks, or flames. Avoid contact with incompatible agents. Use with adequate ventilation/personal protection. Do not enter storage area that is not adequately ventilated. Metal containers used in a transfer should be bonded and grounded. Use non-sparking tools. Observe good personal hygiene after handling this material.

**STORAGE:** Aerosol Storage Level: III

Store in a well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep container tightly closed. The floor of the storage room must be impermeable, non-oxidizing and with contention dikes to retain the product in case of leakage. Store in adequate storage tanks placed in containment basin to retain product in case of leakage.

**STORAGE TEMPERATURE:** Store in closed original container. Protect from direct sunlight. Do not expose to temperatures exceeding 50 C/122 F.

**COMMENTS:** Keep away from sources of ignition.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		Supplier OEL	
Chemical Name		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Acetone	TWA	750	1800	750	1780	NL	NL
	STEL	1000	2400	1000	2380	NL	NL
Methanol	TWA	S 200	260	S 200	262	NL	NL
	STEL	250	310	250	328	NL	NL
Benzene, Methyl-	TWA	200	375	S 50	188	NL	NL
	STEL	C300	560	NL	NL	NL	NL
2-propanol	TWA	400	980	400	983	NL	NL
	STEL	500	1225	500	1230	NL	NL

**ENGINEERING CONTROLS:** If vapors, or mists are generated, provide local exhaust ventilation to prevent airborne exposure. All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94)

### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Wear chemical splash goggles and face shield when eye and face contact is possible due to splashing or spraying of material. Maintain eye wash fountain and quick-drench facilities in work area.

**SKIN:** To prevent any contact, wear impervious protective clothing such as neoprene or butyl rubber gloves, apron, boots or whole bodysuit, as appropriate.

**RESPIRATORY:** No special precautions are necessary under normal operating conditions.

If the exposure limit is exceeded and engineering controls are not feasible, a half-face organic vapor respirator may be worn for up to ten times the exposure limit or maximum use concentration specified by the respirator supplier or regulatory agency. A full-face organic vapor respirator may be employed for use in atmospheres that contain up to 50 times the exposure limit. For emergencies or instances where the exposure levels are not known a positive- pressure, full-face piece, air supplied respirator should be employed.

**PROTECTIVE CLOTHING:** Long sleeved clothing should always be considered when handling chemical substances.

**WORK HYGIENIC PRACTICES:** Good personal hygiene practices should always be followed. Keep away from food, drink and animal feeding stuffs. When using, do not eat, drink or smoke. Hands and any other exposed area should be washed thoroughly with soap and water after contact. Regular laundering of contaminated clothing is essential to reduce indirect skin contact.

**OTHER USE PRECAUTIONS:** Keep away from sources of ignition.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Aerosolize Liquid

**ODOR:** Characteristic

**APPEARANCE:** Clear Liquid

**COLOR:** Colorless to Yellow

**PHYSICAL STATE COMMENTS:** Aerosol

**FLASH POINT AND METHOD:** < -18°C Calculated Flash Point

**BOILING POINT:** > 35°C (95°F)

**SOLUBILITY IN WATER:** Completely soluble.

**SPECIFIC GRAVITY:** 0.765 to 0.775 (Water = 1.00)

**(VOC):** ~ 50.000 to 95.000 % by wt.

## 10. STABILITY AND REACTIVITY

**HAZARDOUS POLYMERIZATION:** Material will not polymerize.

**STABILITY:** This product is stable under storage at normal ambient temperatures.

**CONDITIONS TO AVOID:** Heat, Flames and Sparks. Avoid contact with oxidizers, strong acids and excessive heat. See also section 7.

**POSSIBILITY OF HAZARDOUS REACTIONS:** Vapours may form explosive mixtures with air. If the temperature rises there is danger of the vessels bursting due to the high vapor pressure. May form explosive peroxides.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Aldehydes, carbon dioxide and carbon monoxide, formaldehyde-like, Hydrocarbons, organic compounds

**INCOMPATIBLE MATERIALS:** Avoid Strong Oxidizing Agents

## 11. TOXICOLOGICAL INFORMATION

### ACUTE

Chemical Name	ORAL LD <sub>50</sub> (rat)	DERMAL LD <sub>50</sub> (rabbit)	INHALATION LC <sub>50</sub> (rat)
Methanol	~ 5600 mg/kg Rat	~ 15800 mg/kg Rabbit	~ 64000 ppm/4h Rat

**DERMAL LD<sub>50</sub>:** > 7426 mg/kg (Rabbit)

**Notes:** Acetone

**ORAL LD<sub>50</sub>:** 5800 mg/kg (Rat)

**Notes:** Acetone

**INHALATION LC<sub>50</sub>:** 76 mg/l/4h (Rat)

**Notes:** Acetone

**EYE EFFECTS:** Direct contact may cause eye irritation with redness, tearing and pain.

**SKIN EFFECTS:** Material is a defatting agent and may result in soreness, inflammation and possible dermatitis.

### CARCINOGENICITY

**IARC:** Toluene IARC Group 3

Isopropanol IARC Group 1

Xylene IARC Group 3

**NTP:** Not Listed by NTP

**OSHA:** Not Listed by OSHA

**REPEATED DOSE EFFECTS:** Repeated overexposure to petroleum naphtha can cause nervous system damage. Prolonged and repeated overexposure to kerosene and similar petroleum distillates may cause degenerative changes in the liver, kidneys, and bone marrow.

**IRRITATION:** May be irritating to eyes and skin.

**SENSITIZATION:** May cause an allergic skin reaction.

**TARGET ORGANS:** Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slow reaction time, slurred speech, giddiness, and unconsciousness.

## 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL DATA:** Do not allow to enter into surface water or drains.

**ECOTOXICOLOGICAL INFORMATION:** Avoid exposing to the environment, no specific aquatic data available.

**BIOACCUMULATION/ACCUMULATION:** ACETONE:

Partition coefficient: log Pow: -0.24

n-octanol/water

**AQUATIC TOXICITY (ACUTE)**

**96-HOUR LC<sub>50</sub>:** > 4740 mg/l (Oncorhynchus mykiss (rainbow trout))

**Notes:** Acetone

**GENERAL COMMENTS:** Do not release into surface water.

## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Disposal must comply with federal, state, and local disposal or discharge laws.

**PRODUCT DISPOSAL:** Collect in appropriate containers. Dispose of waste at an appropriate waste disposal facility in accordance with current applicable laws and regulation, and product characteristics at time of disposal.

**EMPTY CONTAINER:** Dispose of container in accordance with applicable regulations.

**GENERAL COMMENTS:** Do not puncture, incinerate or crush empty container as the can may retain residual gas or liquid.

**COMMENTS:** Dispose of waste at an appropriate waste disposal facility according to current applicable laws and regulations.

## 14. TRANSPORT INFORMATION

**DOT (DEPARTMENT OF TRANSPORTATION)**

**PROPER SHIPPING NAME:** Aerosols, Limited Quantity

**VESSEL (IMO/IMDG)**

**SHIPPING NAME:** Aerosols, Limited Quantity

**UN/NA NUMBER:** 1950

**PRIMARY HAZARD CLASS/DIVISION:** 2.1

**15. REGULATORY INFORMATION****UNITED STATES****SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**

**FIRE:** Yes **PRESSURE GENERATING:** Yes **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** No

**CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)**

**CERCLA REGULATORY:** Xylene

**REPORTABLE SPILL QUANTITY:** 100 Lbs.

**TSCA (TOXIC SUBSTANCE CONTROL ACT)**

**TSCA REGULATORY:** All intentional ingredients are listed on the TSCA Inventory.

**CALIFORNIA PROPOSITION 65:** This product contains listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

**16. OTHER INFORMATION**

**REASON FOR ISSUE:** GHS SDS Format

**APPROVED BY:** Scott Margulis **TITLE:** Chief Operating Officer

**PREPARED BY:** Scott Margulis **Date Revised:** 10/05/2015

**REVISION SUMMARY:** This MSDS replaces the 10/03/2015 MSDS. Revised: **Section 9:** (VOC).

**HMIS RATING**

<b>HEALTH</b>	<input type="checkbox"/>	<b>2</b>
<b>FLAMMABILITY</b>		<b>4</b>
<b>PHYSICAL HAZARD</b>		<b>0</b>
<b>PERSONAL PROTECTION</b>		<b>B</b>

**NFPA CODES**

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The data and advice given apply when the product is sold for the stated application or applications. You should not use the product other than for the stated application or applications without seeking advice.

It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The Manufacturer shall not be responsible for any damage or injury resulting from use, other than the stated product use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material. Purchasers of the product for supply to a third party for use at work, have a duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. Employers have a duty to tell employees and others who may be affected of any hazards described in this sheet and of any precautions that should be taken. You can contact the Manufacturer to ensure that this document is the most current available. Alteration of this document is strictly prohibited.

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