





SAFETY DATA SHEET

1. Product and Company Identification			
PRODUCT NUMBER:	1830	COMPANY PHONE:	1-800-241-8180
PRODUCT NAME:	BRAKE AWAY II	EMERGENCY TELEPHONE:	1-800-535-5053
PRODUCT DESCRIPTION:	Aerosol Non-Chlorinated Brake Parts Cleaner	INFOTRAC:	1-800-535-5053
COMPANY INFORMATION:	PRO CHEM, INC. 1475 Bluegrass Lakes Parkway Alpharetta, GA 30004		

2. Hazards Identification				
GHS CLASSIFICATION: Aerosols - Category 1 Gases Under Pressure - Compressed Gas Aspiration Hazard - Category 1 Eye Irritation - Category 2A Skin Irritation - Category 2 Specific Target Organ Toxicity - Repeated Exposure - Category 2 Specific Target Organ Toxicity -Single Exposure (Narcotic Effects) - Category 3 Specific Target Organ Toxicity -Single Exposure (Respiratory Tract Irritation) - Category 3 Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 9.5% Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 9.5% Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 50%	SIGNAL WORD: DANGER	SYMBOL:		
 				

HAZARD STATEMENTS:

Physical: H222 - Extremely flammable aerosol.
 H280 - Contains gas under pressure; may explode if heated.
Health: H304 - May be fatal if swallowed and enters airways.
 H319 - Causes serious eye irritation.
 H315 - Causes skin irritation.
 H373 - May cause damage to organs through prolonged or repeated exposure.
 H336 - May cause drowsiness or dizziness.
 H335 - May cause respiratory irritation.

PRECAUTIONARY STATEMENTS:

General: P101 - If medical advice is needed, have product container or label at hand.
 P102 - Keep out of reach of children.
 P103 - Read label before use.
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 - Do not pierce or burn, even after use.
 P264 - Wash hands thoroughly after handling.
 P280 - Wear protective gloves, eye protection and face protection.
 P260 - Do not breathe mist, vapors or spray.
 P271 - Use only outdoors or in a well-ventilated area.
Response: P314 - Get medical attention if you feel unwell.
 P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.
 P331 - Do NOT induce vomiting.
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337 + P313 - If eye irritation persists: Get medical attention.
 P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.
 P362 + P364 - Take off contaminated clothing and wash it before reuse.
 P332 + P313 - If skin irritation occurs: Get medical attention.
 P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P312 - Call a POISON CENTER or doctor if you feel unwell.
Storage: P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122°F.
 P405 - Store locked up.
 P403 - Store in a well-ventilated place.
Disposal: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

SUPPLEMENTARY INFORMATION:

DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.
 WARNING: This product contains chemicals known to the state of California to cause cancer and birth defects or other reproductive harm.
 Please refer to the SDS for additional information. Keep out of reach of children. Keep upright in a cool, dry place. Do not discard empty can in trash compactor.

3. Composition / Information on Ingredients		
Chemical Name	CAS	Concentration % by Weight
Acetone	67-64-1	50 - 75%
Lt. Aliphatic Hydrocarbon Solvent	64742-49-0	25 - 50%

Carbon Dioxide	124-38-9	≤10%
Lt. Aliphatic Hydrocarbon Solvent	64742-89-8	≤3%
Methyl Cyclohexane	108-87-2	≤3%
Specific chemical identity and/or exact percentage (concentration) of the composition has been withheld to protect confidentiality.		

4. First Aid Measures

EMERGENCY OVERVIEW

EYES: Immediately flush eyes with plenty of water. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

SKIN: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse.

INHALATION:

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

INGESTION:

Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:

No data available.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

No data available.

5. Fire-Fighting Measures

SUITABLE FIRE EXTINGUISHING MEDIA:

Use extinguishing media suitable for surrounding fire.

UNSUITABLE FIRE EXTINGUISHING MEDIA:

None known.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

Extremely flammable aerosol. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed.

FIRE-FIGHTING PROCEDURES:

Water may be used to cool containers to prevent pressure build-up and explosion when exposed to extreme heat.

SPECIAL PROTECTIVE ACTIONS:

Wear goggles and use a self-contained breathing apparatus. If water is used, fog nozzles are preferred.

6. Accidental Release Measures

EMERGENCY PROCEDURE:

Avoid breathing vapor. Avoid contact with skin, eye or clothing. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

Small spill: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

ENVIRONMENTAL PRECAUTIONS:

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

RECOMMENDED EQUIPMENT:

See Section 8 for specifics on protective personal equipment (PPE).

PERSONAL PRECAUTIONS

Avoid breathing vapor. Avoid contact with skin, eye or clothing. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

7. Handling and Storage

GENERAL:

Put on appropriate personal protective equipment (see Section 8). Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not breathe vapor or mist. Do not swallow. Avoid contact with eyes,

skin and clothing. Avoid breathing gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous.

VENTILATION REQUIREMENTS:

Use in a well-ventilated place.

STORAGE ROOM REQUIREMENTS:

Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink. Protect from sunlight. Store locked up. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination.

8. Exposure Controls / Personal Protection

PERSONAL PROTECTIVE EQUIPMENT:



Eye/Face Protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin Protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Respiratory Protection: If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter.

APPROPRIATE ENGINEERING CONTROLS:

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Chemical Name	OSHA TWA (mg/m³)	OSHA TWA (ppm)	OSHA STEL (mg/m³)	OSHA STEL (ppm)	OSHA Carcinogen	OSHA Skin Designation	OSHA Tables (Z1, Z2, Z3)	ACGIH TWA (mg/m3)	ACGIH TWA (ppm)	ACGIH STEL (mg/m3)
Acetone	2400	1000					1			250
Lt. Aliphatic Hydrocarbon Solvent	2000	500					1	[(L)[N159] (L) [N800]]; [5 (I) [N159]5 (I) [N800]];	(L)[N159](L) [N800]	
Carbon Dioxide	9000	5000					1			5000
Methyl Cyclohexane	2000	500					1			400
Lt. Aliphatic Hydrocarbon Solvent	2000	500					1	[(L)]; 1[5 (I)];	(L)	

Chemical Name	ACGIH STEL (ppm)	ACGIH Carcinogen	ACGIH TLV Basis	ACGIH Notations	NIOSH TWA (mg/m3)	NIOSH TWA (ppm)	NIOSH STEL (ppm)	NIOSH STEL (mg/m³)	NIOSH Carcinogen
Acetone	500	A4	URT & eye irr; CNS impair	A4; BEI	590	250			
Lt. Aliphatic Hydrocarbon Solvent		[A2[N159]A2 [N800]]; [A4 [N159]A4 [N800]];	URT irr [N159]URT irr [N800]	[A2[N159]A2 [N800]]; [A4 [N159]A4 [N800]];					
Carbon Dioxide	30000		Asphyxia		9000	5000	30000	54000	
Methyl Cyclohexane			URT irr; CNS impair; liver & kidney dam		1600	400			
Lt. Aliphatic Hydrocarbon Solvent		[A2]; [A4];	URT irr	[A2]; [A4];	350				

(C) - Ceiling limit, (L) - Exposure by all routes should be carefully controlled to levels as low as possible, A1 - Confirmed Human Carcinogen, A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans, A4 - Not Classifiable as a Human Carcinogen, BEI - Substances for which there is a Biological Exposure Index or Indices, CNS - Central nervous system, impair - Impairment, irr - Irritation, repro - reproductive, URT - Upper respiratory tract

9. Physical & Chemical Properties

Appearance:	Liquid.	Flammability(solid/gas):	Flash point below 73°F/23°C
Odor Description:	Not available.	Explosive Limit-Lower (%):	0.9%
Odor Threshold:	Not available.	Explosive Limit-Upper (%):	12.8%
pH:	7	Vapor Density:	2 [air = 1]
Melting/Freezing Point:	Not available.	Vapor Pressure:	101.3 kPa [20°C]
Boiling Point/Range:	Not available.	Solubility (water):	Not available.
Viscosity, Kinematic:	<0.205 cm²/s [40°C]	Auto-Ignition Temp:	Not available.

Flash Point:	-20°C [closed cup]	Decomposition Pt Auto:	Not available.
% VOC:	45.00%	Density:	6.30 lb/gal
Evaporation Rate:	5.6 [butyl acetate = 1]	Density VOC:	2.84 lb/gal

10. Stability & Reactivity Information

CHEMICAL STABILITY:

Stable under normal storage and handling conditions.

HAZARDOUS REACTIONS/POLYMERIZATION:

Under normal conditions of storage and use, hazardous reactions will not occur.

CONDITIONS TO AVOID:

Keep away from heat, sparks, extreme temperature, flame, other sources of ignition and incompatible materials.

INCOMPATIBLE MATERIALS:

No data available.

HAZARDOUS DECOMPOSITION PRODUCTS:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological Information

SKIN CORROSION/IRRITATION:

Causes skin irritation.

SERIOUS EYE DAMAGE/IRRITATION:

Causes serious eye irritation.

CARCINOGENICITY:

No data available.

GERM CELL MUTAGENICITY:

No data available.

REPRODUCTIVE TOXICITY:

No data available.

RESPIRATORY/SKIN SENSITIZATION:

Can irritate the nose and throat causing coughing and wheezing.

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE:

May cause drowsiness or dizziness. May cause respiratory irritation.

SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE:

May cause damage to organs through prolonged or repeated exposure.

ASPIRATION HAZARD:

May be fatal if swallowed and enters airways.

ACUTE TOXICITY:

No data available.

POTENTIAL HEALTH EFFECTS – MISCELLANEOUS:

67-64-1 Acetone

The following medical conditions may be aggravated by exposure: lung disease, eye disorders, skin disorders. Overexposure may cause damage to any of the following organs/systems: blood, central nervous system, eyes, kidneys, liver, respiratory system, skin.

64742-89-8 Lt. Aliphatic Hydrocarbon Solvent

Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors.

67-64-1 Acetone

LC50 (male rat): 30000 ppm (4-hour exposure); cited as 71000 mg/m3 (4-hour exposure) (29)

LC50 (male mouse): 18600 ppm (4-hour exposure); cited as 44000 mg/m3 (4-hour exposure) (29)

LD50 (oral, female rat): 5800 mg/kg (24)

LD50 (oral, mature rat): 6700 mg/kg (cited as 8.5 mL/kg) (31)

LD50 (oral, newborn rat): 1750 mg/kg (cited as 2.2 mL/kg) (31)

LD50 (oral, mouse): 3000 mg/kg (32, unconfirmed)

LD50 (dermal, rabbit): Greater than 16000 mg/kg cited as 20 mL/kg (30)

108-87-2 Methyl Cyclohexane

LC50 (mouse): 41500 mg/m3 (10400 ppm) (2-hour) (6)

LD50 (mouse, oral): 2250 mg/kg (6)

LD50 (rabbit, dermal): Greater than 86.7 g/kg (3).

12. Ecological Information

TOXICITY:

No data available.

PERSISTENCE AND DEGRADABILITY:

No data available.

BIOACCUMULATIVE POTENTIAL:

No data available.

MOBILITY IN SOIL:

No data available.

OTHER ADVERSE EFFECTS:

No data available.

13. Disposal Consideration

WASTE DISPOSAL:

Under RCRA, it is the responsibility of the user of the product, to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state, and local laws. Empty containers retain product residue which

may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

14. Transportation Information

DOT: UN Number: UN1950
UN Proper Shipping Name: Aerosols
Transport Hazard Class(es):
Class: 2.1
Packing Group: N/A.
Note/Special Provision: (LTD QTY)

IATA: UN Number: UN1950
UN Proper Shipping Name: Aerosols, flammable
Transport Hazard Class(es):
Class: 2.1
Packing Group: N/A.
Note/Special Provision: (LTD QTY)

IMDG: UN Number: UN1950
UN Proper Shipping Name: Aerosols
Transport Hazard Class(es):
Class: 2.1
Packing Group: N/A.
Note/Special Provision: (LTD QTY)

15. Regulatory Information

CAS	Chemical Name	% By Weight	Regulation List
67-64-1	Acetone	50 - 75%	CERCLA, SARA312, TSCA, RCRA, ACGIH, OSHA
64742-49-0	Lt. Aliphatic Hydrocarbon Solvent	25 - 50%	SARA312, VOC, TSCA, ACGIH, OSHA
124-38-9	Carbon Dioxide	≤10%	SARA312, TSCA, ACGIH, OSHA
64742-89-8	Lt. Aliphatic Hydrocarbon Solvent	≤3%	SARA312, VOC, TSCA, ACGIH, OSHA
108-87-2	Methyl Cyclohexane	≤3%	SARA312, TSCA, ACGIH, OSHA

16. Other Information

GLOSSARY:

ACGIH- American Conference of Governmental Industrial Hygienists; ANSI- American National Standards Institute; Canadian TDG Canadian Transportation of Dangerous Goods; CAS- Chemical Abstract Service; Chemtrec- Chemical Transportation Emergency Center (US); CHIP- Chemical Hazard Information and Packaging; DSL- Domestic Substances List; EC- Equivalent Concentration; EH40 (UK)- HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA- Emergency Planning and Community Right-To-Know Act; ESL Effects screening levels; HMIS- Hazardous Material Information Service; LC- Lethal Concentration; LD- Lethal Dose; NFPA- National Fire Protection Association; OEL- Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of Labor; PEL- Permissible Exposure Limit; SARA (Title III)- Superfund Amendments and Reauthorization Act; SARA 313- Superfund Amendments and Reauthorization Act, Section 313; SCBA- Self-Contained Breathing Apparatus; STEL- Short Term Exposure Limit; TCEQ- Texas Commission on Environmental Quality; TLV- Threshold Limit Value; TSCA- Toxic Substances Control Act Public Law 94-469; TWA- Time Weighted Value; US DOT- US Department of Transportation; WHMIS- Workplace Hazardous Materials Information System.

DISCLAIMER:

To the best of our knowledge, information contained herein is accurate. However, there is no assumption of liability for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazard, which exists. The information contained in this SDS was obtained from current and reliable sources; however, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions or handling, storage and disposal of this product are beyond the control of the manufacturer, the manufacturer will not be responsible for loss, injury, or expense arising out of the products improper use. No warranty, expressed or inferred, regarding the product described in this SDS shall be created or inferred by any statement in this SDS. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product, which may not be covered by this SDS. The user is responsible for full compliance.