

SAFETY DATA SHEET

WORKING COPY

OSHA Hazard Communication Standard 29 CFR 1910.1200. Prepared to GHS Rev03.

Date Issued : 04/07/2016

SDS No : Low VOC Brake & Metal Cleaner

Low VOC Brake and Metal Cleaner #87

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Low VOC Brake and Metal Cleaner**GENERAL USE:** Cleaning Compound**PRODUCT DESCRIPTION:** Industrial Metal Cleaner**PRODUCT CODE:** 46225-B, 46225-D, 46225-G, 46225-P, 46225-30D, #87**DISTRIBUTOR**

1st Ayd Corporation

1325 Gateway Drive

Elgin, IL 60124

Emergency Phone: 800-255-3924**Customer Service:** 847-622-0001

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS**Health:**

Acute Toxicity (Oral), Category 4

Skin Corrosion, Category 2

Skin Irritation, Category 2

Serious Eye Damage, Category 2

Target Organ Toxicity (Repeated exposure), Category 2

Aspiration Hazard, Category 1

Acute Toxicity (Inhalation), Category 3

Acute Toxicity (Dermal), Category 3

Environmental:

Acute Hazards to the Aquatic Environment, Category 3

Physical:

Flammable Liquids, Category 2

GHS LABEL

Flammable liquid and vapour



Flame

Exclamation
markHealth
hazard

Environment

SIGNAL WORD: DANGER**HAZARD STATEMENTS**

H225: Highly flammable liquid and vapour.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

H332: Harmful if inhaled.

H315: Causes skin irritation.

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H373: May cause damage to organs (state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).

H413: May cause long lasting harmful effects to aquatic life.

H304: May be fatal if swallowed and enters airways.

H301: Toxic if swallowed.

PRECAUTIONARY STATEMENTS**Prevention:**

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P284: [In case of inadequate ventilation] wear respiratory protection.

P233: Keep container tightly closed.

P240: Ground and bond container and receiving equipment.

P241: Use explosion-proof [electrical/ventilating/lighting/...] equipment.

P242: Use non-sparking tools.

P243: Take action to prevent static discharges.

P271: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P264: Wash exposed skin thoroughly after handling.

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.

P337+P313: If eye irritation persists: Get medical advice/attention.

P370+P378: In case of fire: Use ... to extinguish.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage:

P405: Store locked up.

P235: Keep cool.

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

Disposal:

P501: Dispose of contents and container in accordance with local regulations.

POTENTIAL HEALTH EFFECTS

EYES: Contact may cause eye irritation.

SKIN: Can cause irritation if absorbed through the skin.

INGESTION: Can be harmful if ingested.

INHALATION: Can be harmful if inhaled. Can cause respiratory tract irritation. Vapors can cause drowsiness and dizziness.

TARGET ORGAN STATEMENT: May Cause (target organ or system) damage. (e.g., lung, nervous system, blood disorders, liver, kidney, immune system, cardiovascular system, thyroid, testicular, ovarian, etc.).

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Acetone	< 70	67-64-1
N-heptane	< 30	142-82-5
Benzene, Methyl-	< 20	108-88-3

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D-limonene

< 10

5989-27-5

COMMENTS: Formulation is based on weight %

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.**SKIN:** Remove contaminated clothing and shoes. Immediately flush skin with plenty of water for at least 15 minutes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.**INGESTION:** Get medical attention immediately. Call a poison center or physician. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. Call doctor. If vomiting occurs, keep head below hip to prevent aspiration of liquid into lungs.**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt, or waistband.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Adverse symptoms may include pain or irritation, watering, and redness.**SKIN:** Adverse symptoms may include irritation and redness.**INGESTION:** Adverse symptoms may include nausea and vomiting.**INHALATION:** Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness.**NOTES TO PHYSICIAN:** If ingested, this material presents a significant aspiration and chemical pneumonitis hazard. Induction of emesis is not recommended. Consider activated charcoal and/or gastric lavage. If patient is obtunded, protect the airway by endotracheal intubation or by placement of the body in a trendelenburg and left lateral decubitus position.

5. FIRE FIGHTING MEASURES

FLAMMABLE CLASS: Flammable class 1B liquid.**EXTINGUISHING MEDIA:** Dry chemical, alcohol foam or carbon dioxide or water spray (fog). Water may be ineffective. Water spray may be used to keep fire exposed containers cool, dilute spills to nonflammable mixtures, protect personnel attempting to stop leak and disperse vapors.**HAZARDOUS COMBUSTION PRODUCTS:** On combustion, may emit toxic fumes of carbon monoxide.**EXPLOSION HAZARDS:** Above flash point, vapor-air mixtures are explosive within flammable limits noted. Vapors can flow along surfaces to distant ignition sources and flash back. Contact with strong oxidizers may cause fire. Sealed containers may rupture when heated. This material may produce a floating fire hazard. Sensitive to static discharge.**FIRE FIGHTING PROCEDURES:** Promptly remove all persons from the vicinity of the incident if there is a fire. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.**FIRE FIGHTING EQUIPMENT:** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.**HAZARDOUS DECOMPOSITION PRODUCTS:** Decomposition products may include carbon dioxide and carbon monoxide.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Absorb the liquid and scrub the area with detergent and water.**LARGE SPILL:** Avoid runoff into storm sewers and ditches which lead to waterways.

ENVIRONMENTAL PRECAUTIONS

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

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LAND SPILL: Avoid dispersal of spilled material and runoff and contact with soil. Inform the relevant authorities if the product has caused environmental pollution (soil).

GENERAL PROCEDURES: 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). Water polluting material. May be harmful to the environment if released in large quantities.

SPECIAL PROTECTIVE EQUIPMENT: Put on appropriate personal protective equipment (protective gloves, clothing, eye protection, and face protection). Wear appropriate respirator when ventilation is inadequate. Use explosion-proof equipment. Use only non-sparking tools.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Use only in a well ventilated area.

HANDLING: Loosen closure cautiously before opening. Keep away from heat and flame. Follow all SDS/label precautions even after container is emptied because it may retain product residues.

STORAGE: Store in accordance with local regulations. Store in a segregated and approved area in original container protected from sunlight in a dry, cool and well-ventilated and approved area away from incompatible materials. Keep container closed to prevent drying out. Move container away from oxidizing materials. Use appropriate containment to avoid environmental contamination.

STORAGE TEMPERATURE: Store in a cool place below (120) F (49) C.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)				
EXPOSURE LIMITS				
Chemical Name	Type		ppm	mg/m ³
Acetone	OSHA PEL	TWA	1000	2400
		STEL		
	ACGIH TLV	TWA	500	
		STEL	750	
	Supplier OEL	TWA	NL	NL
		STEL	NL	NL
Benzene, Methyl-	OSHA PEL	TWA	200	
		STEL	300	
	ACGIH TLV	TWA	50	188
		STEL		
	Supplier OEL	TWA	NL	NL
		STEL	NL	NL

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.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Use chemical splash goggles and face shield (ANSI Z87.1 or approved equivalent).

SKIN: Glove permeation data does not exist for this material. Viton or heavy nitrile rubber gloves should be used for splash

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protection only.

RESPIRATORY: Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product.

PROTECTIVE CLOTHING: Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task.

WORK HYGIENIC PRACTICES: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking, and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

OTHER USE PRECAUTIONS: Do not eat, drink or smoke during use.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

ODOR: Hydrocarbon solvent odor

ODOR THRESHOLD: Not Established

APPEARANCE: Clear, colorless, transparent liquid

COLOR: Water-white

PHYSICAL STATE COMMENTS: Flammable Liquid

pH: ~ 7

PERCENT VOLATILE: 100 at (70°F)

FLASH POINT AND METHOD: < 0°C (32°F) Tag Closed-Cup (ASTM D56)

FLAMMABLE LIMITS: >0.7 to >6.1

AUTOIGNITION TEMPERATURE: > 204°C (399°F)

VAPOR PRESSURE: > 2 mm Hg at 20°C (68°F)

VAPOR DENSITY: > 3.14 Air=1

BOILING POINT: > 56.5°C (133°F)

MELTING POINT: < 5°C (42°F)

THERMAL DECOMPOSITION: Not Available

SOLUBILITY IN WATER: Negligible

EVAPORATION RATE: > 2

DENSITY: ~ 6.5

SPECIFIC GRAVITY: ~ 0.781

(VOC): 779

10. STABILITY AND REACTIVITY

REACTIVITY: Normally reactive if handled properly. But may react with some plastic, rubber, and coatings.

HAZARDOUS POLYMERIZATION: Product will not undergo polymerization.

STABILITY: Stable under ordinary conditions of use and storage.

CONDITIONS TO AVOID: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.

POSSIBILITY OF HAZARDOUS REACTIONS: No hazardous reactions when stored and handled according to instructions.

HAZARDOUS DECOMPOSITION PRODUCTS: Decomposition products depend upon temperature, air supply and the presence

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of other materials. Carbon monoxide and carbon dioxide are possible decomposition products.

INCOMPATIBLE MATERIALS: Heat, flame, strong oxidizers, nitric and sulfuric acids, chlorine, nitrogen tetroxide; will attack some forms of plastic, rubber, coatings.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

DERMAL LD₅₀: > 5000 mg/kg

Notes: Rabbit

ORAL LD₅₀: > 870 mg/kg

Notes: Rat

INHALATION LC₅₀: > 71 mg/L/4hrs

Notes: Rat

NOTES: Investigated as a tumorigen, mutagen, and a reproductive effector.

GERM CELL MUTAGENICITY: No data available. Contact Env. Dept.

CARCINOGENICITY

IARC: Possible group 3 carcinogen

NTP: Cancer lists: NTP Carcinogen

OSHA: Possible group 3 carcinogen

REPRODUCTIVE TOXICITY: Adverse reproductive effects have occurred in experimental animals.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: This product will normally float on water. Components will evaporate rapidly. This material may be harmful to aquatic organisms and may cause long term adverse effects in the aquatic environment. The log Kow value for this product is expected to be in the range of 3.3-6.

ECOTOXICOLOGICAL INFORMATION: This mixture contains components that are potentially toxic to freshwater and saltwater ecosystems.

BIOACCUMULATION/ACCUMULATION: Bioaccumulation factor (BCF) is 1.67-380.

AQUATIC TOXICITY (ACUTE)

96-HOUR LC₅₀: > 7.3 mg/l- Fish

48-HOUR EC₅₀: > 1.5 mg/l- Water Flea (Daphnia magna)

CHEMICAL FATE INFORMATION: The material is expected to form a slick on the surface of waters after release in calm sea conditions. This is expected to evaporate and enter the atmosphere where it will be degraded through reaction with hydroxyl radicals.

GENERAL COMMENTS: Water hazard class 1 (Assessment by list): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: The generation of waste should be avoided or minimized whenever possible. Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to an RCRA approved incinerator or disposed in an RCRA approved waste facility. Dispose in accordance with all local, state, and federal regulations.

FOR LARGE SPILLS: Do not allow product to reach sewage system.

PRODUCT DISPOSAL: Disposal must be made according to official regulations.

EMPTY CONTAINER: Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty

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containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container.

RCRA/EPA WASTE INFORMATION: Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Although not listed as an RCRA hazardous waste, this material may exhibit one or more characteristics of a hazardous waste and require appropriate analysis to determine specific disposal requirements. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations.

RCRA HAZARD CLASS: Water hazard class 1

14. TRANSPORT INFORMATION**DOT (DEPARTMENT OF TRANSPORTATION)**

PROPER SHIPPING NAME: Flammable Liquid, N.O.S. (Contains Acetone, Heptane), PGII.

TECHNICAL NAME: Low VOC Brake & Metal

PRIMARY HAZARD CLASS/DIVISION: 3

UN/NA NUMBER: UN1993

PACKING GROUP: II

LABEL: Flammable Liquid

15. REGULATORY INFORMATION**UNITED STATES****DOT LABEL SYMBOL AND HAZARD CLASSIFICATION**

Flammable
Liquid

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HEALTH HAZARDS: Immediate, Delayed/Fire hazard

313 REPORTABLE INGREDIENTS: This material does contain chemical components with known CAS numbers that exceed the threshold.

EPCRA SECTION 313 SUPPLIER NOTIFICATION

Chemical Name	Wt.%	CAS
Benzene, Methyl-	< 20	108-88-3

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

CERCLA REGULATORY: This product is listed on the CERCLA Inventory.

Chemical Name	Wt.%	CERCLA RQ
Acetone	< 70	5,000
Benzene, Methyl-	< 20	1,000

TSCA (TOXIC SUBSTANCE CONTROL ACT)

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Chemical Name	CAS
Acetone	67-64-1
N-heptane	142-82-5
Benzene, Methyl-	108-88-3
D-limonene	5989-27-5

TSCA REGULATORY: This product is listed on the TSCA Inventory.**CALIFORNIA PROPOSITION 65:** This product does contain a chemical known to the State of California to cause cancer, birth defects, or any other reproductive harm.

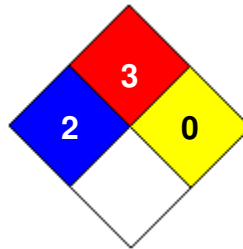
Chemical Name	Wt.%	Listed
Benzene, Methyl-	< 20	<ul style="list-style-type: none"> • Cancer • Developmental Toxicity

CLEAN WATER ACT: CAS# 108-88-3 is listed as a hazardous substance, a priority pollutant, and a toxic pollutant under the Clean Water Act.**CANADA****DOMESTIC SUBSTANCE LIST (INVENTORY):** This product is listed on Canada's DSL list.**16. OTHER INFORMATION**

Date Prepared: 04/07/2016

HMIS RATING

HEALTH	<input type="text"/>	2
FLAMMABILITY	<input type="text"/>	3
PHYSICAL HAZARD	<input type="text"/>	0
PERSONAL PROTECTION	<input type="text"/>	H

NFPA CODES**MANUFACTURER DISCLAIMER:** While reasonable care has been taken to ensure the accuracy and completeness of the information regarding the material described herein, it is the purchaser's responsibility to ensure the suitability of such information as it applies to the purchaser's intended use of the material. 1st Ayd Corporation assumes no responsibility resulting from the use of this SDS.