



Professional Aerosol Products



## HD-860

# HARDEX BRAKE & PARTS CLEANER 400ML

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### SECTION I: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Trade Name:** Hardex Brake & Parts Cleaner 400ml  
**Manufacturer's Product Code:** HD-860  
**Use(s):** Aerosol Spray

**Manufacturer/Supplier:** Amerseal Industrial Sdn. Bhd.  
**Address:** No. 2A, Jalan IM 3/6, Kawasan Perindustrian IM 3,  
Bandar Indera Mahkota, 25200 Kuantan,  
Pahang Darul Makmur,  
Malaysia.

**Telephone Number:** +609-5721063/1064/1065  
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**Email:** [info@hardexworld.com](mailto:info@hardexworld.com)  
**Website:** <http://www.hardexworld.com>  
**Emergency Telephone Number:** +609-5721063 (24 hours)

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### SECTION II: HAZARD IDENTIFICATION

**Classification of the Hazardous Chemical:** Flammable aerosol, category 2  
Specific target organ toxicity – repeated exposure,  
category 2

**Label Elements:**



**Hazard Pictograms:**

**Signal Word:** Warning

**Hazard Statements:** H223: Flammable aerosol

## SAFETY DATA SHEET

H373: May cause damage to organs through prolong or repeated exposure

### Precautionary Statements Prevention:

P210: Keep away from heat/ sparks/ open flames/ hot surfaces-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

### Precautionary Statements Response:

P314: Get medical advice/ attention if you feel unwell

### Precautionary Statements Storage:

P410 + P412: Protect from sunlight. Do not expose to temperature exceeding 50°C/ 122°F

### Precautionary Statements Disposal:

P501: Dispose of contents/container to an approved waste disposal plant in accordance to local regulation

### Other Hazards Which Do Not Result in Classification

None known.

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## SECTION III: COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration (%)	Classification
Alcohol derivative	67-63-0	10%-<30%	Flam. Liq., Cat. 2 Eye damage, Cat. 2 STOT SE, Cat. 3
Chlorinated hydrocarbon	127-18-4	30%-60%	Carcinogenicity, Cat. 2 Aquatic Chronic, Cat. 2
Phenol derivative	108-88-3	10%-<30%	Flam. Liq., Cat. 2 Skin irrit., Cat. 2 Reproductive toxicity, Cat. 2 STOT SE, Cat. 3 STOT RE, Cat. 2 Aspiration hazard, Cat. 1
Liquefied petroleum gas	68476-85-7	30%-60%	Flam. Gas, Cat. 1 Liquefied gas

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**SECTION IV: FIRST AID MEASURES**

- If in Eyes:** Flush eyes with large volumes of fresh water, lifting upper and lower lid occasionally. Receive medical support.
- If in Skin:** Water affected area thoroughly with soap and water. Contaminated clothing and laundry should be removed before re-use.
- If Swallowed:** Drink 2 glasses of water immediately. Never give anything by mouth to an unconscious person. Call physician immediately. Do not induce vomiting.
- If Breathed:** Remove individual to fresh air if affected. If breathing is difficult, give oxygen. Give artificial respiration if the breathing has stopped. Keep person warm and quiet. Obtain medical support.

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**SECTION V: FIRE-FIGHTING MEASURES****Extinguishing Media**

Suitable extinguishing media: Carbon dioxide  
Dry chemical  
Foam  
Water fog

Unsuitable extinguishing media: Water

**Special Hazards Arising from the Substance or Mixture**

In case of fire the following can develop: Oxides of carbon  
Danger of bursting (explosion) when heated  
Danger of explosion by prolonged heating  
Explosive vapor/air mixture

**Advice for Firefighters**

Full protective equipment including self-contained breathing apparatus should be used. Water may be used to cool closed container to prevent build-up and possible auto ignition or explosion when exposed to extreme heat.

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**SECTION VI: ACCIDENTAL RELEASE MEASURE****Personal Precautions, Protective Equipment and Emergency Procedures**

Remove possible causes of ignition – do not smoke.  
Ensure sufficient supply of air.  
Avoid inhalation, and contact with eyes or skin.

**Environmental Precautions**

If leakage occurs, dam up.  
Resolve leaks if this possible without risk.  
Prevent from entering drainage system.

Prevent surface and ground-water infiltration, as well as ground penetration.

### Methods and Material for Containment and Cleaning Up

Observe all personal protective equipment recommendations described in this SDS. If spray or gas escapes, ensure sample fresh air is available. Soak up with absorbent material (e.g. universal binding agent, sand and diatomaceous earth). Dispose of saturated absorbent or cleaning materials appropriately, since spontaneous heating may occur. Laws and regulations may apply to releases and disposal of releases.

## SECTION VII: HANDLING AND STORAGE

### Precautions for Safe Handling

Ensure good ventilation.

Do not smoke while spraying.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feeding stuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

### Condition for Safe Storage, including any Incompatibilities

Do not store in direct sunlight or at temperature exceeding 113°F (45°C).

Do not place near heat, spark, and open flame sources.

Store in a dry place.

Store cool.

Store in a well ventilated place.

## SECTION VIII: EXPOSURE CONTROL AND PERSONAL PROTECTION

### Control Parameters

Chemical Name	CAS No.	Value Type (Form of Exposure)	Control Parameters/ Permissible Concentration	Basis
Alcohol derivative	67-63-0	TWA	400 ppm	ACGIH
		STEL	500 ppm	ACGIH
Chlorinated hydrocarbon	127-18-4	TLV	25 ppm	ACGIH
		STEL	100 ppm	ACGIH
Phenol derivative	108-88-3	TWA	100 ppm	NIOSH
		TWA	200 ppm	OSHA
Liquefied petroleum gas	68476-85-7	TWA	1000 ppm	OSHA
		TWA	1000 ppm	NIOSH

**Exposure Controls****Appropriate Engineering Controls**

Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.

**Individual Protection Measures, such as Personal Protective Equipment**

Eye/Face Protection:	Wear the following personal protective equipment – safety goggles.
Skin Protection:	Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.
Hand Protection:	Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Inspect and replace worn or damaged gloves. Chemical resistant gloves are recommended – nitrile.
Respiratory Protection:	Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. Filter type – combined particulates and organic vapor type.
Hygiene Measures:	<p>Ensure that eye flushing systems and safety showers are located close to the working place.</p> <p>When using do not eat, drink or smoke.</p> <p>Wash contaminated clothing before re-use.</p> <p>These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.</p>

**Environmental Exposure Controls**

No information available at present.

*Note: These precautions are for room temperature handling.*

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**SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Mist
<b>Odor:</b>	Mildly sweet
<b>Odor threshold:</b>	Not available
<b>pH:</b>	Not available
<b>Melting point/ freezing point:</b>	Not available
<b>Boiling point:</b>	Not available
<b>Flash point:</b>	Not available

<b>Specific gravity:</b>	1.1
<b>Evaporation rate:</b>	Slower than ether
<b>Flammability (solid, gas):</b>	Not available
<b>Upper/ lower flammability or explosive limits:</b>	Not available
<b>Vapor pressure:</b>	Not available
<b>Vapor density:</b>	Heavier than air
<b>Relative density:</b>	Not available
<b>Volatile by weight:</b>	Not determined
<b>Volatile by volume:</b>	Not determined
<b>Solubility in water:</b>	Not determined
<b>Partition coefficient: n-octanol/ water;</b>	Not available
<b>Auto-ignition temperature:</b>	Not available
<b>Decomposition temperature:</b>	Not available
<b>Viscosity:</b>	Not available
<b>VOC's (lbs./gal):</b>	Not determined
<b>VOC's (grams/liter):</b>	Not determined

*The above information is not intended for use in preparing product specifications.*

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## SECTION X: STABILITY AND REACTIVITY

<b>Reactivity:</b>	Stable under normal storage conditions.
<b>Chemical stability:</b>	Stable with proper storage and handling.
<b>Possibility of hazardous reactions:</b>	No dangerous reactions are known.
<b>Conditions to avoid:</b>	Heating, open flames and ignition sources. Pressure increase will result in danger of bursting. Protect from sunlight and do not expose to temperatures exceeding 113°F (45°C). Do not pierce or burn, even after use.
<b>Incompatible materials:</b>	Avoid contact with strong oxidizing agents, strong alkalis, and strong mineral acids.
<b>Hazardous decomposition products:</b>	Burning can produce carbon monoxide and/or carbon dioxide and trace phosgene gas.

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**SECTION XI: TOXICOLOGICAL INFORMATION**

Specific Target Organ Toxicity – Repeated Exposure: May cause damage to organs through prolong or repeated exposure

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**SECTION XII: ECOLOGICAL INFORMATION**

**Ecotoxicity:** Not available

**Persistence and degradability:** Not available

**Bioaccumulative potential:** Not available

**Mobility in soil:** Not available

**Other adverse effects:** Not available

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**SECTION XIII: DISPOSAL INFORMATION****Disposal Methods**

Waste from Residues: Disposal of waste to be in accordance with the Environmental Quality (Scheduled Wastes) 2005 Regulations and other guidelines issuance by DOE and/local authorities.

Contaminated Packaging: Dispose of as unused product.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.

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**SECTION XIV: TRANSPORTATION INFORMATION****General Statements**

UN number: 1950

**Transport by Road/by Rail (ADR/RID)**

UN proper shipping name: UN 1950 Aerosols

Transport hazard class(es): 2.1

Packing group: II

Classification code: 5F

LQ (ADR 2015): 1 L

Environmental hazards: Not applicable

Tunnel restriction code: D

**Transport by Sea (IMDG-code)**

UN proper shipping name: UN 1950 Aerosols

Transport hazard class(es):	2.1
Packing group:	II
EmS:	F-D, S-U
Environmental hazards (Marine pollutant):	Not applicable

**Transport by Air (IATA)**

UN proper shipping name:	UN 1950 Aerosols
Transport hazard class(es):	2.1
Packing group:	II
Environmental hazards:	Not applicable

**Special Precautions for User**

Persons employed in transporting dangerous goods must be trained.  
All persons involved in transporting must observe safety regulations.  
Precautions must be taken to prevent damage.

**Transport in Bulk According to Annex II of MARPOL and the IBC Code**

Freighted as packaged goods rather than in bulk, therefore not applicable.  
Minimum amount regulations have not been taken into account.  
Danger code and packing code on request.  
Comply with special provisions.

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**SECTION XV: REGULATORY INFORMATION**

**Environmental Quality** (Scheduled Wastes) Regulations 2005

**Occupational Safety and Health** (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013

**Occupational Safety and Health** (Use and Standards of Exposure of Chemical Hazardous to Health) Regulations 2000

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**SECTION XVI: OTHER INFORMATIONS****WARRANTY**

The information and data contained herein is believed to be accurate and reliable: however, it is the user's responsibility to determine suitability of use. Since the supplier cannot know all the uses or the conditions of use to which this product may be put, no warranties concerning fitness or suitability for a particular use or purpose are made. The supplier warrants only that its products will meet its specifications. There is not a warranty of merchantability or fitness for use, nor any other express or implied warranty. The user's exclusive remedy and supplier's sole liability is limited to refund of the purchase price or replacement of any product shown to be otherwise than as warranted.



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## References

- Book: Protecting the Ozone Layer: Malaysia Implementing the Montreal Protocol by the United Nations Development Programmed (UNDP), Malaysia
- ICOP CLASS 2014
- GHS Classification Guidance by the Japanese Government (Sep, 2008)

## Full Text of Other Abbreviations

ACGIH:	Association Advancing Occupational and Environmental Health
OSHA:	Occupational Safety and Health Administration
PEL:	Permissible exposure limit
STEL:	Short- term exposure limit
TLV:	Threshold limit values
TWA:	Time weighted average