

**Oil & Fuel Treatment Products**

HOT 6430

HARDEX ENGINE FLUSH 300ML

SECTION 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Trade Name:	Hardex Engine Flush 300ml
Manufacturer's Product Code:	HOT 6430
Use (s):	Oil & Fuel Treatment
Manufacturer/Supplier:	Amerseal Industries Sdn. Bhd.
Address:	No. 2A, Jalan I/M 3/6, Kawasan Perindustrian IM 3, Indera Mahkota, 25200 Kuantan, Pahang D.M., Malaysia.
Telephone Number:	+609-5721063/1064/1065
Fax:	+609-5721066
Email:	info@hardexworld.com
Website:	http://www.hardexworld.com
Emergency Telephone Number:	+609-5721063 (24 hours)

SECTION II: HAZARD IDENTIFICATION

Classification of the Hazardous Chemical:	Not hazardous
Label Elements:	None
Signal Word:	None
Hazard Statement:	None
Precautionary Statement Prevention:	None
Precautionary Statement Response:	None
Precautionary Statement Storage:	None
Precautionary Statement Disposal:	None.

SECTION III: COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredient Description	CAS NO.	Weight Percent Range	Classification
Distillates, hydrotreated heavy paraffines	64742-54-7	>60%	Aspiration Hazard, Cat. 1
Additive	Mixture	10 – 30%	Aspiration Hazard, Cat. 1

Contains no other ingredients now known to be hazardous as defined by OSHA 29CFR 1910.1000(z) and 29CFR 1910.1200

SECTION IV: FIRST AID MEASURES

In case of eye contact	: Flush eye with water at least 30 minutes. If persistent irritation occurs, obtain medical attention.
In case of skin contact	: Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.
If swallowed	: Do not induce vomiting. If conscious, give 2 glasses of water. Never give anything by mouth to an unconscious person. Obtain medical attention immediately.
If inhaled	: Remove to fresh air. In the unlikely event of dizziness or nausea, remove casualty to fresh air. If symptoms persist, obtain medical attention.
Notes to physician	: Treat symptomatically. Aspiration into the lungs may cause chemical pneumonitis. Dermatitis may result from prolonged or repeated exposure. High pressure injection injuries require prompt surgical intervention and possibly steroid therapy, to minimize tissue damage and loss of function.

SECTION V: FIRE- FIGHTING MEASURES

Flash Point	: >154°C, (Close Cup)
Method Used	: ASTM D-93
Upper Lower Flammability	: 1 -8 % (V)
Extinguishing Media	: BFC, dry powder, CO ₂ , dry chemical, sand and earth. For large fire use foam, water fog or spray, avoiding contamination.
Special Firefighting Procedures	: Water may be used to cool containers to prevent build-up and explosion when exposed to extreme heat.
Unusual Fire and Explosion Hazards	: None known.
Hazardous Decomposition Products	: These products are carbon dioxides (CO, CO ₂)

SECTION VI: ACCIDENTAL RELEASE MEASURES**Personal precautions**

Avoid eye contact. Do not take internally.

Environmental precautions

Do not allow large quantities to enter drains or surface waters.

Methods for cleaning up

Observe all personal protective equipment recommendations described in this SDS. If diked material can be pumped, store recovered material on appropriate container. Wipe up or scrape up and contain for salvage or disposal. Final cleaning may require use of steam, solvents or detergents. Dispose of saturated absorbent or cleaning materials appropriately, since spontaneous heating may occur. Laws and regulations may apply to releases and disposal of releases. You need to determine which laws and regulations are applicable.

SECTION VII: SAFE HANDLING AND STORAGE**Steps to be taken in case material is released or spilled**

Personal protective equipment must be worn. Ventilate area if spilled in confined space or other poorly ventilated areas. Prevent entry sewers and water. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material.

Precautions to be taken in handling and storing

Store and use in cool, dry, well-ventilated areas. Do not take internally. See product description for additional information.

SECTION VIII: EXPOSURE CONTROL/ PERSONAL PROTECTION**Respiratory protection**

None under normal use. Use disposable dust/mist mask if the recommended exposure limit is exceeded.

Protective gloves

Use any chemical resistant, nitrile or neoprene gloves.

Eye protection

None under normal use. However, use of safety glasses or full face shield is recommended.

Other protective clothing or equipment

None under normal use. Long sleeve or other protective clothing is recommended.

SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Colour [Method]:	Light yellow [ASTM D1500]
Odour:	Hydrocarbon
Odour Threshold:	No data available
pH:	No data available
Flammability (Solid, Gas):	Not applicable
Flash point [Method]:	>154 °C [ASTM D93]
Flammable Limits:	No data available
Autoignition Temperature:	No data available
Explosion Data:	Material does not have explosive properties
Vapour pressure:	No data available
Evaporation Rate:	No data available
Boiling Point:	No data available
Boiling Range:	No data available
Specific Gravity [Method]:	0.87 [ASTM D287]
Bulk Density:	Typical 0.87g/cm ³ at 15 °C
Solubility in Water:	Insoluble
Freezing Point:	No data available
Melting Point:	Not applicable
Coefficient of Therm. Expansion:	No data available
Decomposition Temperature:	No data available
Octanol/Water Partition Coefficient:	No data available
Viscosity:	No data available
Percent Solid:	No data available
Percent Volatile:	No data available

SECTION X: STABILITY AND REACTIVITY

Stability	: Stable under normal conditions of use
Condition to avoid	: High temperatures, sparks and open flame
Incompatible products	: Strong oxidizing agent
Hazardous decomposition products	: No data
Thermal decomposition	: Thermal decomposition is highly dependent on conditions. A complex mixture of airborne solids, liquid and gases, including carbon monoxide, carbon dioxide, and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.

SECTION XI: TOXICOLOGICAL INFORMATION

Acute Oral Toxicity:	No data available
Acute Dermal Toxicity:	No data available
Acute Inhalation Toxicity (Dust/Mist):	Not applicable
Skin Corrosion/Irritation:	Skin irritation, may cause allergic skin reaction
Serious Eye Damage/Eye Irritation:	Eye irritation
Respiratory or skin sensitization:	Respiratory tract irritation
Germ cell mutagenity:	No data available
Carcinogenicity:	No data available
Reproductive toxicity:	No data available
STOT Single exposure:	No data available
STOT repeated exposure:	No data available
Aspiration Hazard:	No data available

SECTION XII: ECOLOGICAL INFORMATION

Ecotoxicity:	Toxic to aquatic organisms. May cause long term adverse effect in the aquatic environment.
Persistence and degradability:	No data available
Bioaccumulative potential:	No data available
Mobility in soil:	No data available
Other adverse effects:	No data available

SECTION XIII: DISPOSAL CONSIDERATIONS

Disposal Methods Waste from Residues:	We make no guarantee or warranty of any kind that the use or disposal of this product complies with all local, state, or federal laws. It is also the obligation of each user of the product mentioned herein to determine and comply with the requirements of all applicable statutes.
Contaminated Packaging:	Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION XIV: TRANSPORT INFORMATION**IMDG**

UN number: UN 3082

Packing: III

The above transport information is provided to assist in the proper classification of this product and may not be suitable for all shipping conditions.

SECTION XV: REGULATORY INFORMATION

USA:	All components of this material are on the USA TSCA inventory or are exempt
CANADA:	All components of this material are on the DSL inventory
EU:	All components are in compliance with EINECS
JAPAN:	All components are in compliance with METI
AUSTRALIA:	All components are in compliance with NICNAS
CHINA:	One or more components not found on IECSC
PHILIPPINES:	All components are in compliance with WITH PICCS

SECTION XVI: OTHER INFORMATION**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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