



BRAKE CLEANER

Material Safety Data Sheet

SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name Wynn's Brake Cleaner (Non-chlorinated)

Other Names 62940 400g
AEROSOLS / ADG

Recommended Use Vehicle brake cleaner in aerosol form

Supplier Name Wynn's Australia Pty Ltd
An (ITW), Illinois Tool Works Company
ABN 73 000 370 150

Address 100 Hassall Street, Wetherill Park N.S.W 2164
Private Bag 35, Wetherill Park DC N.S.W. 2164

Telephone Number (02) 9828 0900

Email: wynnsaus@wynns.net
Website: www.wynns.net

Emergency Phone Numbers (02) 9828 0900 Monday-Friday 8.00am – 5.00pm
13 11 26 (24 hours Australia) Poisons Information Centre (PIC)
0800 764 766 (New Zealand) Poisons Information Centre (PIC)

SECTION 2 HAZARDS IDENTIFICATION

Hazard Classification HAZARDOUS SUBSTANCE. DANGEROUS GOODS.
Classified as hazardous according to the criteria of NOHSC.
Classified as Dangerous Goods according to the criteria of the ADG Code.

Risk Phrase R 36/37/38 Irritating to the eyes, respiratory system and the skin.
R 51/53 Toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment.
R 65 May cause lung damage if swallowed.
R 66 Repeated exposure may cause drying and cracking of the skin.

Safety Phrase

S 2 Keep out of reach of children.
 S 14 Keep away from heat, ignition sources and oxidisers.
 S 23 Do not breathe vapour.
 S 24/25 Avoid contact with skin or eyes.
 S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
 S 60 This material and its container must be disposed of as hazardous wastes.

SECTION 3	COMPOSITION/INFORMATION ON INGREDIENTS
------------------	---

Pure substances

Not applicable – Mixture

Mixtures

Chemical Identity	CAS Number	Proportion
Petroleum Medium Aliphatic	64742-89-8	30-60%
Hydrocarbon Gas	68476-86-8	10 - <30%
Isopropyl Alcohol	67-63-0	10 - <30%
Ethyl Acetate	141-78-6	<10%
Nonyl Phenol Ethoxylate	9016-45-9	<10%

SECTION 4	FIRST AID MEASURES
------------------	---------------------------

Ingestion

Do NOT induce vomiting. Rinse mouth with water and give two 300 ml glasses of water to drink. If symptoms persist, seek prompt medical assistance.

Skin

Remove contaminated clothing and footwear (while under safety shower if appropriate). Flush affected area with water for 3-5 minutes followed by washing gently with soap and water for a further 5 minutes. Rinse well and pat dry. If symptoms persist, seek prompt medical attention.

Eye

Immediately: Hold eye open and flush with clean water for at least 15 minutes. While flushing, gently pull upper and lower eyelids away from eyes and ensure carefully flushed. If symptoms persist, seek prompt medical attention.

Inhalation

Remove the patient (while wearing SCBA if concentrations are high) to fresh air. Allow to rest. Rinse mouth and nose with water. Provide artificial respiration if breathing stops. Seek prompt medical attention unless recovery is virtually immediate. Inhaling concentrated vapours ("Chroming") may prove fatal. Cases of "chroming" must be medically examined even if patient has apparently recovered.

First Aid Facilities Provide normal industrial first aid facilities including eye-wash stations and safety showers as appropriate.

Advice to Doctor Contains 450 mL/L Liquid Hydrocarbons.

Prolonged or repeated skin exposure may lead to dermatitis. Prolong exposure to high vapour concentrations may lead to CNS effects and liver or kidney disorders. "Chroming" may cause heart failure or damage, and brain damage through CNS effects. Aspiration of vomitus may cause chemical pneumonitis. A few unconfirmed cases of skin sensitisation after prolonged or repeated exposures have been reported.

Asthmatics and sufferers of other bronchial disorders should exercise particular care when working with aerosols. Provide supportive care and treatment based on the patient's reactions to the exposure.

SECTION 5

FIRE FIGHTING MEASURES

Suitable Extinguishing Media Foam, dry chemical, water delivered as fine spray or fog. Water may be ineffective due to low flash point of material.

Hazards From Combustion Products Carbon dioxide, carbon monoxide, complex hydrocarbons may be formed on combustion. Vapour highly flammable. Fire may produce irritating or poisonous gases. Heat may cause violent rupture of containers. Vapours may travel significant distances to a source of ignition and flash back to the point of origin. Vapours may "pool" in low-lying areas. In storage fires, aerosol cans may "bleve", spreading burning liquid in their travel thus spreading fires.

Precautions For Fire Fighters Avoid bodily contact with substance or run-off. Contain run-off for later collection and controlled disposal. Be aware of potential for "mini-bleves".

Special Protective Equipment Wear SCBA and full turn out clothing.

Hazchem Code None allocated.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Emergency Procedures Switch off or remove all potential ignition sources. Prevent material entering drains or waterways. Send unnecessary personnel out of area. Wear full protective clothing including rubber boots and respirator. If ventilation is poor, use SCBA.

Methods and Materials for Containment and Clean Up Procedures Spread sand, soil or other inert absorbent over liquid. When saturated, collect into pails or drums, fit lids, label and place in a safe area to await disposal. Collect undamaged cans for return to store. Collect damaged or leaking cans, place in recovery drums for return to supplier or disposal under local authority approval.

SECTION 7 HANDLING AND STORAGE

Precautions for Safe Handling Wear suitable protective clothing. Ensure appropriate fire prevention measures are in place.

Conditions for Safe Storage Store in accordance with AS/NZS 3833 or AS 1940 and local regulations. Note that many authorities require that aerosols are housed in caged enclosures to prevent the travel of "bleves". Keep away from incompatibles in accordance with the Australian Standards.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards

Name	ES-TWA	ES-STEL	ES-Peak
None established for product.	-	-	-

Established for ingredients

Hydrocarbon Gas	1800 mg/m ³	None Allocated	-
Petroleum Medium Aliphatic as oil mist	5 mg/m ³	10 mg/m ³	-
Ethyl Acetate	720 mg/m ³	-	-
Isopropyl Alcohol	400 ppm 983 mg/ m ³	500 ppm 1,230 mg/ m ³	

Alternative Standards 400 ppm (Isopropyl Alcohol) OSHA PEL, ACGIH TLV-TWA.

Biological Limit Values No biological limit allocated.

Engineering Controls Use in well ventilated areas and ensure ventilation is adequate to maintain air concentrations below TWAs. Use local exhaust ventilation (flame-proof) in enclosed areas if necessary.

Personal Protective Equipment

Respiratory Protection	Not usually required. If exposure standards may be exceeded, use an organic vapour respirator to AS 1715 & 1716. Use SCBA in confined spaces.
Eye / Face Protection	Use safety glasses with side shields or goggles to AS 1337.
Skin Protection	Use butyl rubber or PVA gloves to AS 2161. Wear Tyvec or cotton coveralls fastened at the neck and wrists. Supplement with PVA apron if required.
Thermal Hazards	None required.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colourless aerosol spray
Odour	Aromatic
pH Value	Not applicable
Vapour Pressure	1820 mm Hg @ 25°C (Gas)
Vapour Density	Not available
Boiling Point/Range	-43°C to 140°C
Freezing Point	Not applicable
Melting Point	Not applicable
Solubility	Insoluble in water
Density	0.700 @ 15°C
Flash Point	12°C (PMCC) as concentrate. -60°C as gas.
Flammable Limits	1.9 to 8.5% (Gas)
Ignition Temperature	287°C (Gas)
Volatiles	100.0 % volume

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Under all normal conditions of use at normal temperatures and pressure the product is stable.
Conditions to Avoid	Heat and ignition sources.
Incompatible Materials	Oxidising substances.
Hazardous Decomposition Products	Oxides of carbon.
Hazardous Reactions	No hazardous polymerisation will occur.

SECTION 11**TOXICOLOGICAL INFORMATION****Toxicology Information**

Hydrocarbon Gas: LC₅₀ Inhal Rat 4 hr 658 g/m³

Acute Health Effects**Ingestion**

Moderately toxic. May cause chemical pneumonia if aspirated into the bronchial system during vomiting. White spirits may cause lung damage if ingested.

Inhalation

High concentration of solvent vapours can be harmful in enclosed spaces.

Eye

Solvent vapours will cause irritation to eyes. Temporary clouding of the vision may be experienced but is transient.

Skin

Can be slightly absorbed through skin. Repeated exposures may cause drying and cracking of the skin.

Chronic Health Effects**Inhalation**

Excessive inhalation of vapours can affect the central nervous system leading to a loss of coordination and impaired judgment. Prolonged exposure can lead to stupor or unconsciousness. Deliberate inhalation of concentrated vapours, commonly known as "chroming", may prove fatal.

Isopropanol – Moderately toxic by inhalation.

Human systemic effects by inhalation: pulse rate decrease, blood pressure lowering, anaesthesia, coma, narcosis, hallucinations, headache, dizziness, nausea or vomiting.

ihl-rat TCLo : 10,000 ppm / 7 H

ihl-rat LC50 : 16, 000 ppm / 4 H

ihl-mus LCLo : 12,800 ppm / 3 H

Ingestion

Isopropanol – Moderately toxic by ingestion.

Human systemic effects by ingestion: pulse rate decrease, blood pressure lowering, anaesthesia, narcosis, headache, dizziness, nausea or vomiting, coma, hallucinations.

orl-rat TDLo : 6,480 mg / kg

orl-man TDLo: 14,432 mg / kg

orl-man LDLo : 5,272 mg / kg

orl-mus LD50 : 3,600 mg / kg

orl-dog LD50 : 4,797 mg / kg

Eye

Isopropanol – A severe eye irritant.

It can cause corneal burns and eye damage.

eye-rbt 10 mg MODERATE

Skin	Isopropanol – A skin irritant. It is absorbed by the skin. skn-rbt 500 mg MILD skn-rbt LD50 : 12,800 mg / kg
Other Effects of Prolonged/Repeated Overexposure	Vapours in a confined area in high concentrations are anaesthetic. Overexposure may result in light headiness, dizziness, nausea.

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity	Toxic to aquatic organisms.
Persistence/ Degradability	May have long term adverse effects in the aquatic environment.
Mobility	Not available.

SECTION 13 DISPOSAL CONSIDERATIONS

Disposal Methods	Disposal must be in accordance with local regulations for hazardous industrial wastes.
Special Precautions for Landfill or Incineration	None allocated.

SECTION 14 TRANSPORT INFORMATION

UN Number	1950
Proper Shipping Name	AEROSOLS
Class and Subsidiary Risk	2.1 and 3
Packing Group	None allocated.
Special Precautions for User	None allocated.
Hazchem Code	None allocated.

SECTION 15 REGULATORY INFORMATION

Poisons Schedule	Not scheduled under SUSDP.
Hazard Category	Toxic / NOHSC : 10005 (1999). All ingredients present on AICS. AEROSOLS / ADG Code Sixth Edition (1998).

SECTION 16	OTHER INFORMATION
-------------------	--------------------------

Acronyms

ABN	Australian Business Number
ACGIH	American Conference of Governmental Industrial Hygienists
ADG	Australian Dangerous Goods
AICS	Australian Inventory of Chemical Substances
AS	Australian Standard
CAS	Chemical Abstracts Service (USA)
COC	Cleveland Open Cup
EPA	Environment Protection Agency (Australian States)
IARC	International Agency for Research on Cancer
IP	Institute of Petroleum (UK)
NIOSH	National Institute for Occupational Safety and Health (USA)
NOHSC	National Occupational Health and Safety Commission (Australia)
NTP	National Toxicology Program (USA)
NZS	New Zealand Standard
OSHA	Occupational Safety and Health Administration (USA)
PEL	Permissible Exposure Level
PMCC	Pensky – Martens Closed Cup
SCBA	Self-Contained Breathing Apparatus
STEL	Short Term Exposure Limit
SUSDP	Standard for the Uniform Scheduling of Drugs and Poisons (Australia)
TLV	Threshold Limit Value
TWA	Time Weighted Average
UN	United Nations

Abbreviations

cP	centiPoise
cSt	centiStoke
g	gram
Hg	Mercury
kPa	kiloPascal
L	litre
m ³	cubic metre
mg	milligram
mL	millilitre
mm	millimetre
°C	degrees of temperature in Celsius (Centigrade)
%	percent(age)

Note

This form has been prepared in accordance with the National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC:2011 (2003)] issued by the National Occupation Health and Safety Commission April 2003.

All information contained in this form is as accurate as possible at the time of issue. The data contained herein is not to be taken as an expressed or implied warranty or representation, for which Wynn's Australia Pty Ltd assumes legal responsibility. No responsibility for damages resulting from use of the information is given, other than those implied mandatorily by Federal or State Government Legislation.

END OF MATERIAL SAFETY DATA SHEET
--