

ADVANCED WORKSHOP & ENGINE DEGREASER

Safety Data Sheet



1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product name: ADVANCED WORKSHOP & ENGINE DEGREASER

Synonyms

W45 engine degreaser

Product Code

428

Recommended use: Multipurpose cleaner and degreaser for use on engines, spare parts, metal and floor.

Supplier Name CLEAN PLUS CHEMICALS PTY LTD

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Email customerservice@cleanplus.com.au

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2. HAZARDS IDENTIFICATION

Hazardous according to the criteria of GHS and Safe Work Australia.



Signal Word

Danger

Hazard Classifications

Skin Corrosion - Category 1

Serious Eye Damage/Irritation - Category 1

Corrosive to Metals – Category 1

Hazard Statements

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H290 Maybe corrosive to metals.

Prevention Precautionary Statements

P102 Keep out of reach of children.

P103 Read label before use.

P233 Keep container tightly closed.

P264 Wash hands, face and all exposed skin thoroughly after handling.

P280 Wear protective clothing, gloves, eye/face protection and suitable respirator.

Response Precautionary Statements

P101 If medical advice is needed, have product container or label at hand.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P363 Wash contaminated clothing before reuse.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

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P310 Immediately call a POISON CENTRE or doctor/physician.

Storage Precautionary Statement

P405 Store locked up.
P406 Store in corrosive-resistant container with a resistant inner liner.

Disposal Precautionary Statement

P501 Dispose of contents/container in accordance with local, regional, national and international regulations.

3. COMPOSITION INFORMATION

Ingredient	CAS No.	Proportion, weight %
SODIUM METASILICATE PENTAHYDRATE	102-13-79-3	1-10%
4-NONYLPHENOL BRANCHED, ETHOXYLATED	127087-87-0	1-10%
ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-2	1-10%
NITRILOTRIACETIC ACID, TRISODIUM SALT, MONOHYDRATE	18662-53-8	1-10%
SODIUM XYLENE SULPHONATE	1300-72-7	1-10%
POTASSIUM HYDROXIDE	1310-58-3	<1%
NON-HAZARDOUS INGREDIENTS	Not Available	Remainder

4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

Inhalation: Remove victim from exposure - avoid becoming a casualty. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

Skin Contact: Take off immediately all contaminated clothing and wash it before reuse. Wash immediately with plenty of running water and possibly with soap, the areas of the body that have, or are only suspected to have, come in contact with the product. Immediately call a POISON CENTRE, doctor or physician.

Eye contact: Hold eyelids apart and immediately irrigate with copious quantities of water for 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Urgently seek medical assistance.

Ingestion: Rinse mouth with water. If swallowed, do NOT induce vomiting. Immediately give a glass of water to drink. Never give anything by the mouth to an unconscious patient. Seek medical advice.

Notes to physician: Treat symptomatically. Can cause corneal burns.

5. FIRE FIGHTING MEASURES

Hazchem Code: 2R

Suitable extinguishing media: If material is involved in a fire use water fog (or if unavailable fine water spray), alcohol resistant foam, standard foam, dry agent (carbon dioxide, dry chemical powder).

Specific hazards: HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE
Do not breathe combustion products.

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Fire fighting further advice: As in any fire, wear self-contained breathing apparatus and suitable protective clothing including gloves and eye/face protection.

GENERAL INFORMATION Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Move undamaged containers from immediate hazard area if it can be done safely.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS Normal firefighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILLS

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours. Wipe up with absorbent (clean rag or paper towels). Collect and seal in properly labelled containers or drums for disposal.

LARGE SPILLS

Clear area of all unprotected personnel. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.

7. HANDLING AND STORAGE

Handling: Avoid eye contact and skin contact. Avoid inhalation of dust, vapour, mist or aerosols. Wear protective gloves/protective clothing/eye protection/face protection. At work do not smoke, eat or drink when handling product.

Storage: Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Store away from sources of heat and/or ignition. Store locked up. Keep container standing upright. Keep containers closed when not in use - check regularly for leaks. Store in accordance with local and national regulations. Keep only in original packaging.

This material is classified as a Class 8 Corrosive as per the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and must be stored in accordance with the relevant regulations.

This material is a Scheduled Poison Schedule 5 (Caution) and must be stored, maintained and used in accordance with the relevant regulations.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National occupational exposure limits:

	TWA		STEL		NOTICES
	ppm	mg/m3	ppm	mg/m3	
2-Butoxyethanol 111-76-2	20	96.9	50	242	Sk
Potassium hydroxide 1310-58-3	-	2 Peak limitation	-	-	-

As published by Safe Work Australia.

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These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept too as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

Engineering Measures: Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use only in well-ventilated areas. Use with local exhaust ventilation or while wearing appropriate respirator.

Personal Protection Equipment: RUBBER BOOTS, OVERALLS, GLOVES, APRON, FACE SHIELD.

MANUFACTURING, PACKAGING AND TRANSPORT: Wear rubber boots, overalls, gloves, apron, face shield. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

If risk of inhalation of exists, wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

RECOMMENDATIONS FOR CONSUMER USE: Wear safety glasses and gloves. Wash hands after use.

Hygiene measures: Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid contact with clothing. Avoid eye contact and skin contact. Avoid inhalation of vapour, mist or aerosols. Ensure that eyewash stations and safety showers are close to the workstation location.

9. PHYSICAL AND CHEMICAL PROPERTIES

Base Units: Litres
Form: Thin Liquid
Colour: BROWN
Odour: SLIGHT ODOUR

Solubility:	Soluble in water.
Specific Gravity (20 °C):	1.03 -1.06
Relative Vapour Density (air=1):	>1
Vapour Pressure (20 °C):	N Av
Flash Point (°C):	N App
Flammability Limits (%):	N App
Autoignition Temperature (°C):	N App
Melting Point/Range (°C):	N Av
Boiling Point/Range (°C):	100 - 171
Decomposition Point (°C):	N Av
pH:	13.0 – 14.0
Viscosity:	N Av
Total VOC (g/Litre):	N Av

(Typical values only - consult specification sheet)
N Av = Not available, N App = Not applicable

10. STABILITY AND REACTIVITY

Chemical stability: Stable under normal storage and use conditions.

Conditions to avoid: None known under normal storage and use conditions

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Incompatible materials: Reacts violently with acids in an exothermic reaction. Maybe corrosive to metals.

Hazardous decomposition products: Does not decompose under normal storage and use conditions

Hazardous reactions: Stable under normal storage and use conditions.

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

(a) acute toxicity:

POTASSIUM HYDROXIDE: Breathing in dust may result in respiratory irritation.

(b) Skin corrosion/irritation: Corrosive product: causes severe skin burns and eye damage.

POTASSIUM HYDROXIDE: Corrosive.

SODIUM METASILICATE: The substance is corrosive to the eyes, the skin and the respiratory tract. Corrosive if swallowed.

(c) Serious eye damage/irritation: Corrosive product: causes severe skin burns and eye damage. - If brought into contact with eyes, the product causes serious damages to eyes, such as an opaque cornea or injury to iris.

POTASSIUM HYDROXIDE: The substance is corrosive to eyes

SODIUM METASILICATE: Corrosive.

(d) respiratory or skin sensitization: Material may be an irritant to mucous membranes and respiratory tract.

(e) germ cell mutagenicity: based on available data, the classification criteria are not met.

(f) carcinogenicity: based on available data, the classification criteria are not met. Not carcinogenic.

(g) reproductive toxicity: based on available data, the classification criteria are not met.

(h) specific target organ toxicity (STOT) single exposure: based on available data, the classification criteria are not met.

(i) specific target organ toxicity (STOT) repeated exposure: no information available.

(j) aspiration hazard: no information available.

Related to contain substances:

SODIUM METASILICATE:

ROUTES of EXPOSURE: the substance can be absorbed into the body by inhalation of its aerosol and by ingestion.

INHALATION RISK: evaporation at 20°C negligible; a harmful concentration of aereodisperse particles can, however, be reached quickly when dispersed.

LD50 (rat) Oral (mg/kg body weight) = 1280

POTASSIUM HYDROXIDE:

ROUTES of EXPOSURE: the substance can be absorbed into the body by inhalation of its aerosol and by ingestion

LD50 (rat) Oral (mg/kg body weight) = 273

4-NONYLPHENOL BRANCHED, ETHOXYLATED:

ROUTES of EXPOSURE: dermal

LD50 (rabbit) dermal (mg/kg body weight) = 6,300

SODIUM XYLENE SULPHONATE:

ROUTES of EXPOSURE: the substance can be absorbed into the body by inhalation of its aerosol and by ingestion.

LD50 (rat) oral (mg/kg boy weight) = >7,200

LD50 (rabbit) dermal (mg/kg boy weight) = >2,000

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ETHYLENE GLYCOL MONOBUTYL ETHER:

ROUTES of EXPOSURE: the substance can be absorbed into the body by inhalation of its aerosol and by ingestion.

LD50 (rat) oral – moderately toxic.

LD50 (rabbit) dermal (mg/kg body weight) = 500 – 1,000

NITRILOTRIACETIC ACID, TRISODIUM SALT, MONOHYDRATE:

ROUTES of EXPOSURE: the substance can be absorbed into the body by ingestion, large doses may cause gastrointestinal tract, nausea, vomiting, diarrhoea, abdominal pain.

LD50 (rat) oral (mg/kg body weight) = 1,100

Persistence and degradability: No information available

Bio accumulative potential: No information available

Mobility in soil: No information available

12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

Acute aquatic hazard: This material has been classified as non-hazardous.

Acute toxicity estimate (based on ingredients): >100 mg/L

Long-term aquatic hazard: This material has been classified as non-hazardous. Non-rapidly or rapidly degradable substance for which there are adequate chronic toxicity data available OR in the absence of chronic toxicity data, Acute toxicity estimate (based on ingredients): >100 mg/L, where the substance is not rapidly degradable and/or BCF < 500 and/or log K_{ow} < 4.

Ecotoxicity: No information available.

Persistence and degradability: Readily Biodegradable.

Bioaccumulative potential: No information available.

Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.

14. TRANSPORT INFORMATION

ROAD AND RAIL TRANSPORT

Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail".



ADG, IMO/IMDG, ICAO/IATA

UN No:

1719

UN Proper shipping name:

CORROSIVE LIQUID, ALKALI, N.O.S. (SODIUM METASILICATE)

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Dangerous Goods Class: 8
Packing Group: III
Environmentally hazardous: No
Marine pollutant: No
Hazchem Code: 2R
EmS: F-A, S-B

15. REGULATORY INFORMATION

National Regulations: Globally Harmonised System of Classification and Labelling of Chemicals (GHS) as published by Safe Work Australia.

Poison Schedule: Classified as a Schedule 5 (S5) Poison using the criteria in the Standard for the Uniform Scheduling of Medicines and Poison (SUSMP), established under the Therapeutic Goods Act (Commonwealth).

Classification: Globally Harmonised System of Classification and Labelling of Chemicals (GHS) as published by SafeWork Australia.

Inventory Listing: Australian Inventory of Industrial Chemicals. All components are listed on the inventory or are exempt.

This material is not subject to the following international agreements:

Montreal Protocol (Ozone depleting substances)
The Stockholm Convention (Persistent Organic Pollutants)
The Rotterdam Convention (Prior Informed Consent)

This material is subject to the following international agreements:

Basel Convention (Hazardous Waste)

- Wastes from the production, formulation and use of biocides and phytopharmaceuticals

International Convention for the Prevention of Pollution from Ships (MARPOL)

- Annex III - Harmful Substances carried in Packaged Form

This material/constituent(s) is covered by the following requirements:

- The Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) established under the Therapeutic Goods Act (Commonwealth).
- All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

This Safety Data Sheet document has been compiled by Clean Plus Chemicals. Further clarification regarding any aspect of this product should contact Clean Plus Chemicals directly. While Clean Plus Chemicals has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, Clean Plus Chemicals accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person because of their reliance on the information contained in this SDS.

Additional Information

HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a Clean Plus Chemicals report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this Clean Plus Chemicals report is provided as a guide only. Factors such as method of application, working environment, quantity used, product

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concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

ABBREVIATIONS:

ADB - Air-Dry Basis.
BEI - Biological Exposure Indices(s)
CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds.
CNS - Central Nervous System.
EINECS - European Inventory of Existing Commercial Substances.
GHS - Globally Harmonized System
IARC - International Agency for Research on Cancer.
M - moles per litre, a unit of concentration.
mg/m³ - Milligrams per cubic meter.

NOS - Not Otherwise Specified.
NTP - National Toxicology Program.
OSHA - Occupational Safety and Health Administration.
ACGIH - American Conference of Governmental Industrial Hygienists
pH - relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).
ppm - Parts Per Million.
RTECS - Registry of Toxic Effects of Chemical Substances.
ATE - Acute Toxicity Estimate
LC50 - Lethal Concentration, 50% / Median Lethal Concentration
LD50 - Lethal Dose, 50% / Median Lethal dose
STOT-RE - Specific target organ toxicity (repeated exposure)
STOT-SE - Specific target organ toxicity (single exposure)
TWA - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.
STEL (Short Term Exposure Limit) - the average airborne concentration over a 15-minute period which should not be exceeded at any time during a normal eight-hour workday.
Peak Limitation - a ceiling concentration that should not be exceeded over a measurement period, which should be as short as possible, but not exceeding 15 minutes.

End of Safety Data Sheet