

AT RACING PREMIXED FUEL

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name AT Racing Premixed Fuel
Product Code 14-128A
Other Names -
Product Use Fuel for 2-stroke glow engines
Importer Name Austorc Pty Ltd
Address Unit 24
85-115 Alfred Road
Chipping Norton NSW 2170
Telephone Number 02 9723 4233
Emergency Telephone 0421 116 838

2. HAZARDS IDENTIFICATION**HAZARDOUS SUBSTANCE. DANGEROUS GOODS.**

Classified as hazardous according to the criteria of Safe Work Australia.

Hazards F - Flammable
T - Toxic

Risk Phrases R5 - Heating may cause an explosion.
R11 - Highly flammable.
R22 - Harmful if swallowed.
R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed.
R39 - Danger of very serious irreversible effects.

Safety Phrases S1/2 - Keep locked up and out of reach of children.
S7 - Keep container tightly closed.
S16 - Keep away from sources of ignition - No smoking.
S36/37 - Wear suitable protective clothing and gloves.
S41 - In case of fire and/or explosion do not breathe fumes.
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient (common name)	CAS Number	Proportion by weight
Methanol	67-56-1	60%
Nitromethane	75-52-5	30%
Ingredients deemed not to be hazardous	Proprietary	10%

4. FIRST AID MEASURES

Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if symptoms persist.

Ingestion	Never give anything by mouth to an unconscious person. Swallowing methanol is potentially life threatening. If conscious and medical aid is not immediately available, DO NOT induce vomiting. In actual or suspected cases of ingestion, transport to medical facility immediately.
Skin	Remove contaminated clothing and wash affected areas with soap and water. Seek medical attention if symptoms persist. Launder clothing before reuse.
Eyes	In case of eye contact, check for and remove any contact lenses. Immediately irrigate eyes with plenty of running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
Note to Doctor	This product contains methanol. Methanol is metabolized to formaldehyde and formic acid. These metabolites may cause metabolic acidosis, visual disturbances and blindness. Since metabolism is required for these toxic symptoms, their onset may be delayed from 6 to 30 hours following ingestion. Ethanol competes for the same metabolic pathway and has been used as an antidote. Methanol is effectively removed by hemodialysis.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media	For major fires call the Fire Brigade. Ensure that an escape path is available from any fire. Foam, dry chemical, carbon dioxide, water spray.
Hazardous Combustion Products	It may emit toxic gases of carbon and nitrogen oxides under fire conditions.
Firefighting Equipment	Wear ASCC approved self-contained breathing apparatus and full protective clothing.
Unusual Fire or Explosion Hazards	Cool exposed containers with water. Water stream may be ineffective. Heat may cause containers to rupture. Vapors are heavier than air and may travel along the ground to an ignition source some distance from material handling point. Ignition sources include pilot lights, smoking, heaters, electric motors, sparks from electrical switches and static discharges. CAUTION: Never use cutting torch on empty containers! Residual solvent vapor in empty containers may explode.
Hazchem Code	3WE

6. ACCIDENTAL RELEASE MEASURES

Spills	SMALL SPILL: Keep away from ignition sources (electrical, hot surfaces, etc.). Pick up spill with absorbent material and flush with water. LARGE SPILL: Use personal protective equipment such as cotton overall, organic vapour respirator, safety shoes and impervious gloves. Avoid contact with the skin and the eyes. Contain spill to prevent entry into drains, sewers or waterways. Ventilate and keep traffic from area. Cover liquid spill with sand, earth or other inert (non-combustible) absorbent material, pick up and transfer to properly labelled containers. Use water spray to reduce vapours.
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7. HANDLING AND STORAGE

Handling	Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating.
Storage	Keep containers tightly closed. Store in a cool, dry, ventilated area away from heat, sparks, pilot lights, static electricity and open flame. No smoking. Empty containers retain residue (liquid and/or vapour) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, flame, sparks or other sources of ignition. They may explode and cause injury or death.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards (Safe Work Australia)	Methanol: TWA: 200 ppm / 262 mg/m ³ STEL: 250 ppm / 328 mg/m ³ Nitromethane: TWA: 20 ppm / 50 mg/m ³ STEL: - ppm / - mg/m ³
Engineering Controls	Local exhaust ventilation is recommended when vapours can be released in excess of established airborne exposure limits.
Respiratory Protection	Use an ASCC approved organic vapour respirator if the ventilation is not sufficient. See Australian Standards AS/NZS 1715 and 1716 for more information.
Eye Protection	Chemical splash goggles.
Skin Protection	Rubber or PVC gloves and protective clothing.
Hygienic Practices	Food, beverages and tobacco products should not be stored or consumed where this material is in use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Thin, colour-coded liquid
Odour	Sweet alcohol odour
Solubility in Water	90%
Boiling Point	65°C
Freezing Point	< -62°C
Vapour Pressure (mm Hg @ 20°C)	96
Vapour Density (Air=1)	1.1
Evaporation Rate (butyl acetate)	4.6
Specific Gravity (Water=1 @ 20°C)	> 0.811 and < 1.001
Flash Point (Pensky-Martens)	4.5°C
Lower Explosive Limit (LEL)	6%
Upper Explosive Limit (UEL)	36.5%

10. STABILITY AND REACTIVITY

Chemical Stability	Stable.
Incompatible Materials	Strong oxidants.
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide and other hydrocarbons.
Hazardous Polymerization Conditions to Avoid	Will not occur. Heat, sources of ignition, flames.

11. TOXICOLOGICAL INFORMATION

Toxicity	<p>Methanol: Oral LD₅₀ (rat) = 5628 mg/kg Oral LD₅₀ (mouse) = 7300 mg/kg Oral LD_{Lo} (human) = 428 mg/kg Oral LD_{Lo} (man) = 6422 mg/kg Unreported LD_{Lo0} (man) = 868 mg/kg Inhalation LC₅₀ (rat) = 83 mg/L Intraperitoneal LD₅₀ (rat) = 1826 mg/kg Intraperitoneal LD₅₀ (rabbit) = 9540 mg/kg Toxic by inhalation, ingestion or skin absorption. May be a reproductive hazard. Ingestion may be fatal. Risk of very serious, irreversible damage if swallowed. Exposure may cause eye, kidney, heart and liver damage. Chronic or substantial acute exposure may cause serious eye damage, including blindness. Irritant. Narcotic.</p> <p>Nitromethane: Oral LD₅₀ (rat) = 940 mg/kg Oral LD₅₀ (mouse) = 950 mg/kg Inhalation LC_{Lo} (mouse) = 18mg/L – 2h Intravenous LD_{Lo} (rabbit) = 750 mg/kg Harmful if swallowed, inhaled or absorbed through skin. Irritant. May cause cyanosis, which can be delayed up to 4 hours. Inhalation, ingestion, eye and skin</p>
Routes of Exposure	Inhalation, ingestion, eye and skin
Acute Health Effects	<p>Inhalation: Excessive inhalation of vapors and/or spray mist can cause respiratory irritation, dizziness, weakness, fatigue, nausea, headache, unconsciousness and even asphyxiation.</p> <p>Ingestion: Can cause gastrointestinal irritation, nausea, vomiting, diarrhea, blindness and death.</p> <p>Eye: Can cause severe irritation, redness, tearing and blurred vision.</p> <p>Skin: Can cause skin irritation.</p>
Chronic Health Effects	<p>Prolonged or repeated contact can cause moderate irritation, defatting and dermatitis.</p> <p>Chronic overexposure to nitromethane may cause kidney / liver damage.</p>
Existing Conditions Aggravated by Exposure	Persons with pre-existing skin disorders may be more susceptible to this product.
Carcinogenicity	Some evidence of carcinogenicity (NTP).

12. ECOLOGICAL INFORMATION

Ecotoxicity	No information available.
Mobility	No information available.

13. DISPOSAL CONSIDERATIONS

Disposal methods and containers Dispose according to applicable local and state government regulations.
Special precautions for landfill or incineration Please consult your state Land Waste Management Authority for more information

14. TRANSPORT INFORMATION

Classified as a dangerous good according to the Australian Code for the Transport of Dangerous goods by road or rail.

UN Number 1992
Proper Shipping Name FLAMMABLE LIQUID, TOXIC, N.O.S.
Dangerous Goods Class 3
Subsidiary Risk 6.1
Hazchem Code 3WE
Packing Group II
Special Precautions Not applicable

15. REGULATORY INFORMATION

Methanol and nitromethane are listed in the Australian Inventory of Chemical Substances (AICS).
Poisons Schedule: 6

16. OTHER INFORMATION

Last Revision of MSDS Rev 1.0 (19/04/2011)
Prepared by MSDS.COM.AU Pty Ltd www.msds.com.au
Abbreviations Used IARC: International Agency for Research on Cancer
NTP: National Toxicology Program (U.S.)
OSHA: Occupational Safety and Health Administration (U.S.)
STEL: Short term exposure limit
TWA: Time weighted average

Emergency Contacts

Austorc Pty Ltd 02 9723 4233
Austorc Pty Ltd – Emergency Number 0421 116 838
Police and Fire Brigade 000
Poisons Information Centre 13 11 26

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