

Safety Data Sheet

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Version Number 1

Issue date: 08/02/2013

SECTION 1: Identification of the substance /mixture and of the company/undertaking

1.1 Product identifier

Trade name: GloMax

1.2 Relevant identified uses of the substance or mixture and uses advised against

Application of the substance / the preparation: Model Engine fuel for plane, car, helicopter

1.3 Details of the supplier of the safety data sheet

Model Engines Pty Ltd
Unit 1, 158 Browns Road
Noble Park, Vic, 3174
Tel: +61-3-8793-5517

1.4 Emergency telephone numbers

Australia: Poisons Information Centre- 13 11 26
New Zealand: Poison Information Centre- 0800 764 766

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

T; Toxic

R23/24/25-39/23/24/25: Toxic by inhalation, in contact with skin and if swallowed.
Toxic danger of a very serious irreversible effects through inhalation,
in contact with skin and if swallowed

F; Highly flammable

R11: Highly flammable

R5: Heating may cause an explosion

Information concerning particular hazards for human and environment:

The product has to be labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

2.2 Label elements

Code letter and hazard designation of product:



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Hazard-determining components of labelling:

Methanol
Nitromethane

Risk phrases:

5 Heating may cause an explosion.
11 Highly flammable.
23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

Safety phrases:

4 Keep away from living quarters
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
60 This material and its container must be disposed of as hazardous waste.

SECTION 3: Composition/information on ingredients

3.1 Mixtures

Description: Mixture consisting of the following components

Hazardous components:		
CAS: 67-56-1 EINECS:200-659-6 Index number: 603-001-00-X RTECS: PC 1400000	methanol T R24/25-39/23/24/25; F R11 Flam. Liq. 2,H225; Acute Tox. 3,H301; Acute Tox. 3,H311; Acute Tox. 3, H331; STOT SE 1, H270	40-100%
CAS: 75-52-5 EINECS:200-876-6 Index number: 609-036-00-7	nitromethane Xn R22 R5-10 Fkam.Liq.3, H226; Acute Tox.4, H302	5-40%

Additional Information: For the wording of the listed risk phrases refer to section 16.

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Product	% Nitromethane	% Methanol
GloMax Car Buggy	10 to 30	60 to 80
GloMax Aircraft	5 to 30	60 to 80
GloMax Helicopter	15 to 30	60 to 80
GloMax Four Stroke	15 to 30	60 to 80

SECTION 4: First aid measures

4.1 Description of First Aid Measures

General information:

Immediately remove any clothing soiled by the product.

Remove breathing equipment only after contaminated clothing have been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

After Inhalation:

Supply fresh air or oxygen, call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact:

Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing:

Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed.

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed.

Apply protocols for Methanol poisoning.

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SECTION 5: Firefighting Measures

5.1 Extinguishing Media

Suitable extinguishing agents

Carbon dioxide

Alcohol resistant foam

Fire extinguishing powder

Water spray

For safety reasons unsuitable extinguishing agents: Water with full jet.

5.2 Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

5.3 Advice for firefighters

Protective equipment: Mouth respiratory protective device.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

Keep away from ignition sources.

6.2 Environmental precautions

Do not allow to enter sewers/surface or ground water.

6.3 Methods and material for containment and cleaning up

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents.

Absorb with liquid - binding material (sand, diatomite, acid binders, universal binders, sawdust).

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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SECTION7: Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

Avoid contact with the eyes and skin.

Information about fire and explosion protection:

Keep ignition sources away -Do not smoke.

Protect from heat.

Protect against electrostatic charges.

Keep respiratory protective device available.

7.2 Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles:

Store in a cool location.

Information about storage in one common storage facility:

Not required.

Further Information about storage conditions.

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

7.3 Specific end use(s):

No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

67-56-1 methanol

WEL	Short-term value:333 mg/M3, 250 ppm Long-term value: 266 mg/M3 , 200 ppm SK
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75-52-5 nitromethane

WEL	Short-term value: 381mg/M3, 150ppm Long-term value: 254mg/M3, 100ppm
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Additional information: The lists valid during the making were used as basis

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8.2 Exposure controls

Personal protective equipment

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product/the substance/the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves:

Rubber gloves

Neoprene gloves

Penetration time of glove material:

The exact break through time must be determined by the manufacturer of the protective gloves.

Eye protection:

Tightly sealed goggles (EN 166)

Body protection:

Protective work clothing

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form: Liquid
Colour: Various colours
GloMax Car Buggy - Green
GloMax Airtaft - Blue
GloMax Four Stroke - Red
GloMax Helicopter - Purple

Odour

Alcohol-like

Odour threshold

Not determined.

pH-value:

Not determined.

Melting point/Melting range:

Not determined.

Boiling point/Boiling range:

65 Deg C

Flash point:

4.4 - 7.2 Deg C (closed cup)

Flammability(solid,gaseous):

Not applicable.

Ignition temperature:

385 Deg C

Decomposition temperature:

Not determined.

Danger of explosion:

Heating may cause an explosion.

Explosion limits:

Lower:

7.1 Vol %

Upper:

63.0 Vol %(nitromethane) 36.0% (methanol)

Oxidizing properties:

Not determined.

Vapour pressure:

27-123 mmHg

Density:

0.811-1.001g/cm³

Relative Density:

Not determined.

Vapour density:

1.1-2.1 g/cm³

Evaporation rate at 20 Deg C

1.4-2.1 g/cm³ (vs. n-butyl acetate)

Solubility in/Miscibility

with Water:

90%

Partition coefficient

(n-octanol/water):

Not determined

Viscosity:

Dynamic:

Not determined

Kinematic:

Not determined

9.2 Other Information

No further relevant information available

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SECTION 10: Stability and reactivity

10.1 Reactivity

No further relevant information available.

10.2 Chemical stability

Thermal decomposition/conditions to be avoided:

No decomposition if used and stored according to specifications.

10.3 Possibility of hazardous reactions

Reacts with strong oxidizing agents

10.4 Conditions to avoid

Heat and sources of ignition

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

Formation of toxic gases is possible during heating or in case of fire.

Carbon monoxide and carbon dioxide.

Nitrogen oxides.

SECTION 11: Toxicological Information

11.1 Information on toxicological effects

Acute Toxicity

LD/LC50 values:

67-56-1 methanol

Oral	LD50	5628mg/kg (Rat)
Dermal	LD50	12800mg/kg (Rabbit)
Inhalative	LD50/4h	64000ppm (Rat)

75-52-5 nitromethane

Oral	LD50	940mg/kg (Rat)
Dermal	LD50	>2000mg/kg(Rabbit)
Inhalative	LD50/1h	>12.75mg/L(Rat)

Primary irritant effect:

On the Skin: No irritant effect.

On the eye: May cause irritation

Sensitization: No sensitizing effects known.

Additional Toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Toxic

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SECTION 12: Ecological information

12.1 Toxicity

Aquatic Toxicity

No further relevant information available.

12.2 Persistence and degradability

No further relevant information available.

12.3 Bioaccumulative potential

No further relevant information available.

12.4 Mobility in soil

No further relevant information available.

General notes:

Water hazard class 2(German Regulation) (Self Assessment): hazardous for water

Do not allow product to reach ground water, water course or sewerage system.

Danger to drinking water if even small quantities leak into the ground.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable

vPvB: Not applicable

12.6 Other adverse effects

No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation: Do not allow product to reach sewerage system

Uncleaned packaging

Recommendation:

Disposal must be made according to official regulations.

Packaging that may not be cleansed must be disposed of in the same manner as the product.

SECTION 14: Transport information

14.1 UN Number

ADR,IMDG,IATA

UN1992

14.2 UN proper shipping name

ADR

1992 FLAMMABLE LIQUID,TOXIC,N.O.S.
(METHANOL,NITROMETHANE)

IMDG,IATA

FLAMMABLE LIQUID, TOXIC,N.O.S
(METHANOL,NITROMETHANE)

14.3 Transport hazard class(es)

ADR,IMDG,IATA



Class

3 Flammable liquids

Label

3 (6.1)

14.4 Packing group

ADR,IMDG,IATA

II

14.5 Environmental hazards

Marine pollutant:

No

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14.6 Special precautions for user

Warning: Flammable liquids

Danger code (Kemler)

336

EMS Number:

F-E-S-D

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

Transport/Additional information

Tunnel restriction code

D/E

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product feature and shall not establish a legally valid contractual relationship.

Relevant phrases

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H331	Toxic if inhaled.
H370	Causes damage to organs.
R10	Flammable.
R11	Highly flammable.
R22	Harmful if swallowed.
R24/25	Toxic in contact with skin and if swallowed.
R39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
R5	Heating may cause an explosion.

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road).

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

LC50: Lethal concentration, 50 percent.

LD50: Lethal dose, 50 percent.

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