

Model Technics Ltd
MSDS Glow Model Engine Fuel

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Company Information

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Identification of the substance or mixture

Name Model Engine Glow Fuel
UN No UN1992 Flammable Liquid Toxic N.O.S.
Class 3
Packing group 11

Hazard Identification

Note:- This mixture has the predominant characteristics of methanol and the majority of the data relates to that substance. However the relevant characteristics of the other ingredients have been taken into account in preparing this data sheet.

Classification and Label Elements

WARNING

Any glow fuel mixture which has a nitromethane concentration greater than 25% in volume is controlled under The control of explosive precursors regulations 2014. The final public user of such a fuel must satisfy the regulation requirements before purchase.



HIGHLY FLAMMABLE HEALTH HAZARD TOXIC
Hazard Statements

H225 Highly flammable liquid and vapour.
H301+H311 Toxic if swallowed or in contact with skin.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H370 Causes damage to organs.
H401 Toxic to aquatic life.

Precautionary Statements

This product should be handled in accordance with good industrial hygiene and safety practices.

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P210 Keep away from heat/sparks/open flames/hot surfaces--- No Smoking.
P233 Keep container tightly closed.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well ventilated area.
P282	Wear protective gloves/protective clothing.
P301+P313	IF SWALLOWED: Immediately get medical advice/attention.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P307+P311	If exposed: Call Poison Centre or doctor/physician.

Composition and Ingredients

Substance is a mixture of Methyl alcohol, nitromethane oil and various additives.

First Aid Measures

General Advice

Consult a physician. Show this safety data sheet to the doctor in attendance, move from contaminated area.

If Inhaled

If inhalation of mists, fumes or vapour causes irritation to nose or throat or the patient is coughing, remove patient to fresh air. If symptoms persist obtain medical advice.

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if pain or redness develops or persists.

If swallowed

Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician in the event of any adverse health effects.

Clothing

Remove at once (remember fire risk) and launder or dry clean before re use.

Fire fighting measures

Suitable extinguishing media

For small (incipient) fires, use media such dry chemical carbon dioxide or water mist. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

Further information

Use water spray to cool unopened containers.

Accidental release

Personal precautions

If spillage occurs avoid prolonged or repeated skin contact. Water may be used to flush away from sources of ignition. Do not allow the product to enter public drainage system or open water courses. Spillages should be contained and covered with sand or similar inert material which should be stored in a closed container to await safe disposal in accordance with local regulations.

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Handling and storage

General: This substance should only be stored and handled in the container supplied by the Company and the lids should be kept tightly closed at all times. The instructions of the local fire authority and your insurers must be followed. Keep containers standing upright and in a cool well ventilated space.

Containers up to and including 5 litres capacity.

Bulk storage: It is recommended that the material should be stored in a fire resistant container with a sealed base adequate to retain the contents + 10% of any of our containers which may become damaged. The bulk store should be provided with a suitable lockable closure to prevent unauthorised access or interference with the contents.

Retail display : The areas where this material is stored or displayed for retail sale should be carefully selected so that they are away from direct sunlight and preferably out of direct reach of customers

Containers larger than 5 Litres capacity.

These containers will normally be United Nations tested drums with a nominal capacity of 200 litres. The general guidelines given above apply to these containers. Before attempting to open any drum of this substance it must be properly earthed to prevent static discharges. A non-sparking tool must be used to open the drum. Vehicles such as fork lift trucks used to move drums inside a building must have protection fitted to prevent them becoming sources of ignition in the event of the contents being spilled.

Exposure controls/Personal protection

Wear suitable respiratory protective equipment if exposure to levels above the Occupational Exposure Limit for vapours, mist and fumes is likely. No smoking and take measures to prevent static charge build.

Occupational exposure limits:

There is no standard for this preparation. However we recommend that the following standards should be applied.

Methanol in the workplace:

LTEL 8 Hr. TWA 200ppm STEL 15 min. TWA 250ppm

Nitromethane in the workplace:

LTEL 8 Hr. TWA 100ppm STEL 15 min. TWA 150ppm

At the time of press no exposure limits have been found for the other components.

Physical and chemical properties:

Appearance	Liquid which may be any colour depending upon the lubricants/additives used in the formulation.
Odour	Characteristic of Methanol.
Flash point	>23 c

Stability and reactivity

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

Vapour may form explosive mixture with air

Conditions to avoid

Heat, flames and sparks

Materials to avoid

Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids.

Hazardous reactions and decomposition products

Thermal decomposition can produce a variety of compounds, the precise nature of which will depend on the decomposition conditions. Incomplete combustion/thermal decomposition will generate smoke, carbon oxides and hazardous gases.

Toxicological information

Acute toxicity

LD50 Oral - rat - 5,628 mg/kg

LC50 Inhalation - rat - 4 h - 64000 ppm

LD50 Dermal - rabbit - 15,800 mg/kg

Skin corrosion/irritation

Skin - rabbit - Skin irritation - 24 h

Serious eye damage/eye irritation

Eyes - rabbit - Eye irritation - 24 h

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure (GHS)

Causes damage to organs.

Specific target organ toxicity - repeated exposure (GHS)

no data available

Aspiration hazard

no data available

Potential health effects

Inhalation May be harmful if inhaled. Causes respiratory tract irritation.

Ingestion Toxic if swallowed.

Skin Toxic if absorbed through skin. Causes skin irritation.

Eyes Causes eye irritation.

Signs and Symptoms of Exposure

Methyl alcohol may be fatal or cause blindness if swallowed., Cannot be made non-poisonous., Effects due to ingestion may include:, Nausea, Headache, Vomiting, Gastrointestinal disturbance Dizziness, Weakness, Confusion., Drowsiness, Unconsciousness, May cause convulsions.

Ecological Information

The ecological effect of this preparation will not be worse than the stated data. Methanol and the lubricants used in our bio-degrade rapidly in both saline and fresh aquatic systems. The following information is based on the known characteristics of methanol.

Toxicity LC50 (Golden Orfe) (48 hour) > 10000mg/Lt

Toxicity EC50 (Daphnia Magna) (48 hour) > 10000mg/Lt

If the preparation enters ponds the oil content will float on the surface and may temporarily cut off the oxygen supply to aquatic life. Large quantities will have a similar effect on streams and rivers.

Persistence and degradability

no data available

Bioaccumulative potential

no data available

Mobility in soil

no data available

PBT and vPvB assessment

no data available

Other adverse effects

no data available

Disposal considerations

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. .Contaminated packaging Dispose of as unused product.

Transport information

Classification	Flammable liquid
UN No.	1992
UN Packing Group	II
ADR/RID Class	3
ADR/RID Item No.	19 ⁰ (b)
ADR SIN	1992
ADR Hazard Identification No.	336
ADR Label	3 + 6.1
IMDG Class	3.2
IMDG EmS	3 - 07
IMDG Stowage	B

Other information

Additional safety phrases required if sold to the general public.

Keep out of reach of children.

Do not use to light or relight fires or barbeques under any conditions.

Do not decant into another container other than the tank on the model.

Always store in the original container supplied.

In case of accident or if you feel unwell seek medical advice immediately (show label where possible).

This product is intended only as a fuel for glow engines used to power models of all descriptions. No responsibility can be accepted for any other use.

Note

The information contained in this data sheet is accurate to the best of the company's knowledge and experience. It is passed on without any warranty and no responsibility is accepted for any loss of expense arising out of its use.

The information contained in this safety data sheet is continually under review and is liable to be modified from time to time.
