SAFETY DATA SHEET: **LU01 POWERMODEL 2T-S**

according to 1907/2006/EC, Article 31

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

1.1. Product identifier

Product name	Powermodel 2T-S

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

Description	High performance synthetic 2-stroke oil for 2 & 4-stroke engine powered models.

1.3. Details of the supplier of the safety data sheet

Company	Deluxe Materials Ltd
Address	Unit 13, Cufaude Business Park, Cufaude Lane Tadley Hampshire RG26 5DL United Kingdom
Web	www.deluxematerials.com
Telephone	+44(0) 1256 883 944
Fax	+44(0) 1256 883 966
Email	info@deluxematerials.com
Email address of the competent person	john@deluxematerials.com
Local Supplier	
Company	Deluxe Materials Ltd
Address	Unit 13, Cufaude Business Park, Cufaude Lane Tadley Hampshire RG26 5DL United Kingdom
Web	www.deluxematerials.com
Telephone	+44(0) 1256 883 944
Fax	+44(0) 1256 883 966
Email	info@deluxematerials.com
Email address of the competent person	john@deluxematerials.com

1.4. Emergency telephone number

Emergency telephone number	**+44 (0) 1256 883 944**
Company	Deluxe Materials Ltd Mon - Fri 9.00 am - 5.00 pm

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Main hazards	No Significant Hazard

2.2. Label elements

Risk phrases	No Significant Hazard.

2.2. Label elements

Risk phrases	No Significant Hazard.
Safety phrases	S2 - Keep out of the reach of children.

2.3. Other hazards

Other hazards	None Identified.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Hydrocarbons, C11-14, n-alkanes, isoalkanes, cyclic, <2% aromatics			926-141-6			Xn; R65 R66

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	If inhaled, remove to fresh air. If symptoms appear seek medical attention.
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention if irritation or symptoms persist.
Skin contact	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if irritation develops.
Ingestion	Do not give anything by mouth, DO NOT INDUCE VOMITING unless directed by medical personnel. Seek medical attention immediately.

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

Inhalation	Under normal conditions of use the product should not be a risk to health. However, if aerosols are formed and inhaled they will cause irritation to the respiratory tract and can develop into a serious lung condition.
Eye contact	May cause irritation to eyes.
Skin contact	Avoid prolonged or repeated exposure.
Ingestion	No data available.

General information

	Note to Physician: Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

	In case of fire use alcoholic resistant foam, dry chemical of carbon dioxide. Evacuate personnel to a safe area. Do NOT use water jet.

5.2. Special hazards arising from the substance or mixture

	Combustion may yield smoke, carbon monoxide and other products of incomplete combustion. Oxides of nitrogen and sulphur may also be formed. Packaged product in a fire may cause the container to burst because of the increase in pressure.

5.3. Advice for firefighters

	No action should be taken involving any personal risk or without suitable training. The area should be isolated by removing all persons from the vicinity of the fire. Fire fighters should wear appropriate protective equipment and self contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire fighters (including helmets, protective boots and gloves) conforming to European Standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

	Ensure adequate ventilation of the working area. Wear suitable protective clothing, gloves and eye/face protection.

6.2. Environmental precautions

	Do not allow product to enter drains. Prevent further spillage if safe.

6.3. Methods and material for containment and cleaning up

	Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.

6.4. Reference to other sections

	See Sections 8 & 13 for additional information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

	Avoid contact with eyes and skin. Apply a barrier cream before handling the product. Adopt best Manual Handling considerations when handling, carrying and dispensing. A high standard of personal hygiene should be adopted when using chemical products. Wash hands, forearms and face thoroughly after use, before eating, smoking, using the lavatory and at the end of the working period. See Sections 8 & 13 for additional information.

7.2. Conditions for safe storage, including any incompatibilities

	Store in containers designed to contain this product and ensure the storage area is not close to heat or any sources of ignition. Keep in a cool, dry, well ventilated area.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

	Workplace exposure limits have not been assigned to this product.

8.2. Exposure controls

8.2.1. Appropriate engineering controls	Exhaust ventilation or other engineering controls should not be necessary when using under normal ambient conditions. However, if misting or aerosols are formed ventilation will be reqiured. All activities involving chemicals should be assessed for their risks to health to ensure exposures are adequately controlled.
8.2.2. Individual protection measures	Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained. NB the final choice of PPE will depend upon a risk assessment of the activity/task being carried out.
Eye / face protection	safety glasses with side-shields.
Skin protection - Handprotection	Chemical resistant gloves.
Respiratory protection	Respiratory protection is unlikely to be required in normal use as long as the ventilation is adequate.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

9.1. Information on basic physical and chemical properties

State	Liquid
Colour	Blue
Odour	Characteristic
pH	7.5
Melting point	No data available
Freezing Point	No data available
Boiling point	No data available
Flash point	121 °C
Evaporation rate	No data available
Relative density	No data available
Fat Solubility	No data available
Partition coefficient	No data available
Viscosity	64 x 10-6 m²/s @ 40 °C (ISO 3104/3105)
Solubility	Insoluble in water

9.2. Other information

Conductivity	No data available
Surface tension	No data available
Gas group	No data available
VOC (Volatile organic compounds)	No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reaction known.

10.2. Chemical stability

Stable under normal conditions.

10.4. Conditions to avoid

Avoid sparks, flames, heat and sources of ignition.

10.5. Incompatible materials

Oxidising agents.

10.6. Hazardous decomposition products

Will not decompose if stored and used as recommended. Thermal decomposition may lead to the formation of a multiplicity of compounds, some of which may be hazardous. With incomplete combustion, smoke and hazardous fumes and gases, including Carbon Monoxide, may be formed.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

	Exposure Routes:. Dermal, Inhalation. Vapour inhalation under normal ambient conditions is not normally a problem because of low vapour pressure.
Acute toxicity	No Significant Hazard.
Serious eye damage/irritation	May cause transient irritation, but no known significant effects or critical hazards.
Respiratory or skin sensitisation	No evidence of skin or respiratory sensitisation.
Germ cell mutagenicity	No mutagenic effects reported.
Carcinogenicity	No carcinogenic effects reported.
Reproductive toxicity	No known significant effects or critical hazards.
Repeated or prolonged exposure	Prolonged and repeated contact can defat the skin and lead to irritation and/or dermatitis.

11.1.4. Toxicological Information

11.1.4. Toxicological Information

No data available

SECTION 12: Ecological information

12.1. Toxicity

No data available

12.2. Persistence and degradability

Expected to be inherently biodegradable.

12.3. Bioaccumulative potential

This product is not expected to bioaccumulate through food chains in the environment.

12.4. Mobility in soil

Spillages may penetrate the soil causing ground water contamination.

12.5. Results of PBT and vPvB assessment

No PBT chemicals present. No vPvB chemicals present.

12.6. Other adverse effects

Spills may form on water surface causing physical damage to organisms. Oxygen transfer could also be impaired.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Generation of waste product should be avoided or minimized wherever possible.
Surplus and material that cannot be reused must be disposed of via a licensed waste disposal contractor and Waste packaging should be recycled
Incineration or landfill should only be considered when recycling is not feasible.
In any case, his material and its container must be disposed of in a safe way.
The end user should be aware that empty containers may retain some product residues.
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal of packaging

Empty containers may retain residue and may be dangerous, do not pressurise, cut, weld, braze, solder, drill, grind or expose such containers to heat, sparks, flame or other sources of ignition. Waste packaging should be reycycled if feasible before incineration or landfill are considered. If the packaging cannot be cleaned of any oil residue it should be disposed of as hazardous waste.

SECTION 14: Transport information

ADR/RID

The product is not classified as dangerous for carriage.

IMDG

The product is not classified as dangerous for carriage.

IATA

The product is not classified as dangerous for carriage.

SECTION 15: Regulatory information

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

The Health & Safety at work Act 1974.
The Conrtol of Substances Hazardous to Health Regulations 2002.
EC 1272/2008 - Classification, labelling and Packaging of Substances & Mixtures.
EN 166:2002 - Eye Protection.
EN 529:2005 - Respiratory Protective Devices.
BS EN 374-1:2003 Protective gloves against chemicals and micro-organisms.
Worplace Exposure Limits (EH40), Control of Substances Hazardous to Health.

15.2. Chemical safety assessment	
	No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Other information	
	The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.
Acronyms	CAS = Chemical Abstracts Service CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] CSR = Chemical Safety Report DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level DPD = Dangerous Preparations Directive [1999/45/EC] DSD = Dangerous Substances Directive [67/548/EEC] EWC = European Waste Catalogue GHS = Globally Harmonized System of Classification and Labelling of Chemicals OECD = Organisation for Economic Co-operation and Development PBT = Persistent, Bioaccumulative and Toxic VPVB = Very Persistent and very Bioaccumulative PNEC = Predicted No Effect Concentration RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail SVHC = Substances of Very High Concern.
Text of risk phrases in Section 3	R65 - Harmful: may cause lung damage if swallowed. R66 - Repeated exposure may cause skin dryness or cracking.