

Safety Data Sheet dated 14/4/2014, version 3

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

## 1.1. Product identifier

Mixture identification:

Trade name: NITROLUX

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

Recommended use:

Fuel for engines of model-maker

## 1.3. Details of the supplier of the safety data sheet

Company:

MODELIX RACING, S.L.

c/ Remences 90 - Pol. Ind. Vallveric / 08304 - MATARO (Barcelona) ESPAÑA

Teléfono: (+34) 93 7419121 - Fax: (+34) 93 7567033

Competent person responsible for the safety data sheet:

[info@modelixracing.com](mailto:info@modelixracing.com)

## 1.4. Emergency telephone number

MODELIX RACING, S.L. (+34) 93 7419121 (7-19 h.)

**SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

Directive criteria, 67/548/CE, 99/45/EC and following amendments thereof:

Properties / Symbols:

T Toxic

R Phrases:

R23/24/25 Toxic by inhalation, 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.

EC regulation criteria 1272/2008 (CLP)

Danger, Flam. Liq. 2, Highly flammable liquid and vapour.

Danger, Acute Tox. 3, Toxic if swallowed.

Danger, Acute Tox. 3, Toxic in contact with skin.

Danger, Acute Tox. 2, Fatal if inhaled.



Danger, STOT SE 1, Causes damage to organs if inhaled.

Adverse physicochemical, human health and environmental effects:

No other hazards

## 2.2. Label elements

Directive criteria, 67/548/CE, 99/45/EC and following amendments thereof:

Symbols:

T Toxic

R Phrases:

R23/24/25 Toxic by inhalation, 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.

S Phrases:

S27 Take off immediately all contaminated clothing.

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).  
 S63 In case of accident by inhalation: remove casualty to fresh air and keep at rest.  
 S7 Keep container tightly closed.

Contents:

methanol  
 nitromethane

EC regulation criteria 1272/2008 (CLP)

Symbols:



Danger

Hazard statements:

H225 Highly flammable liquid and vapour.  
 H301+H311 Toxic if swallowed or in contact with skin.  
 H330 Fatal if inhaled.  
 H370 Causes damage to organs if inhaled.

Precautionary statements:

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
 P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P307+P311 IF exposed: Call a POISON CENTER or doctor/physician.  
 P310 Immediately call a POISON CENTER or doctor/physician.  
 P370+P378 In case of fire, use water for extinction.  
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.

Special Provisions:

None

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

**SECTION 3: Composition/information on ingredients**

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of EEC directive 67/548 and CLP regulation and related classification:

>= 50% - < 100% methanol

REACH No.: 01-2119433307-44, Index number: 603-001-00-X, CAS: 67-56-1, EC: 200-659-6  
 F,T; R11-23/24/25-39/23/24/25

2.6/2 Flam.  Liq. 2 H225

3.8/1  STOT SE 1 H370

3.1/3/Oral  Acute Tox. 3 H301

 3.1/3/Dermal Acute Tox. 3 H311

3.1/3/Inhal  Acute Tox. 3 H331

>= 1% - < 33% nitromethane

Index number: 609-036-00-7, CAS: 75-52-5, EC: 200-876-6

Xn; R10-22-5

2.6/3 Flam.  Liq. 3 H226

3.1/4/Oral  Acute Tox. 4 H302

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## SECTION 4: First aid measures

### 4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap. WARNING! This product is toxic through skin contact. OBTAIN IMMEDIATE MEDICAL ATTENTION.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do NOT induce vomiting.

Give nothing to eat or drink.

In case of Inhalation:

If breathing is irregular or stopped, administer artificial respiration.

In case of inhalation, consult a doctor immediately and show him packing or label.

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

None

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment: Treat symptomatically.

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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO<sub>2</sub>).

Extinguishing media which must not be used for safety reasons:

None in particular.

### 5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

### 5.3. Advice for firefighters

Use suitable breathing apparatus .

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.

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## SECTION 6: Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures
  - Wear personal protection equipment.
  - Remove persons to safety.
  - See protective measures under point 7 and 8.
- 6.2. Environmental precautions
  - Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
  - Retain contaminated washing water and dispose it.
  - In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
  - Suitable material for taking up: absorbing material, organic, sand
- 6.3. Methods and material for containment and cleaning up
  - Wash with plenty of water.
- 6.4. Reference to other sections
  - See also section 8 and 13

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## SECTION 7: Handling and storage

- 7.1. Precautions for safe handling
  - Avoid contact with skin and eyes, inhalation of vapours and mists.
  - Don't use empty container before they have been cleaned.
  - Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
  - Contaminated clothing should be changed before entering eating areas.
  - Do not eat or drink while working.
  - See also section 8 for recommended protective equipment.
- 7.2. Conditions for safe storage, including any incompatibilities
  - Keep away from food, drink and feed.
  - Incompatible materials:
    - None in particular.
  - Instructions as regards storage premises:
    - Adequately ventilated premises.
- 7.3. Specific end use(s)
  - None in particular

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## SECTION 8: Exposure controls/personal protection

- 8.1. Control parameters
  - methanol - CAS: 67-56-1
    - EU - LTE(8h): 260 mg/m<sup>3</sup>, 200 ppm - Notes: Bold-type: Indicative Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] (for references see bibliography)
    - ACGIH, 200 ppm, 250 ppm - Notes: Skin BEI - Headache, eye dam, dizziness, nausea
  - nitromethane - CAS: 75-52-5
    - ACGIH, 20 ppm - Notes: A3 - thyroid eff, URT irr, lung dam
- DNEL Exposure Limit Values
  - N.A.
- PNEC Exposure Limit Values
  - N.A.
- 8.2. Exposure controls
  - Eye protection:
    - Eye glasses with side protection.
  - Protection for skin:
    - No special precaution must be adopted for normal use.
  - Protection for hands:
    - Resistant protective gloves to chemicals (EN 374)
  - Respiratory protection:
    - Not needed for normal use.

Thermal Hazards:

None

Environmental exposure controls:

None

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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance and colour:	Red liquid.
Odour:	Characteristic.
Odour threshold:	N.A.
Melting point / freezing point:	N.A.
Initial boiling point and boiling range:	N.A.
Solid/gas flammability:	N.A.
Upper/lower flammability or explosive limits:	Inf. 6.1%. Volumen
Vapour density:	N.A.
Flash point:	N.A.
Evaporation rate:	N.A.
Vapour pressure:	N.A.
Relative density:	0.861
Solubility in water:	Miscible
Solubility in oil:	N.A.
Partition coefficient (n-octanol/water):	N.A.
Auto-ignition temperature:	N.A.
Decomposition temperature:	N.A.
Viscosity:	N.A.
Explosive properties:	N.A.
Oxidizing properties:	N.A.

### 9.2. Other information

Miscibility:	N.A.
Fat Solubility:	N.A.
Conductivity:	N.A.
Substance Groups relevant properties	N.A.

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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal conditions

### 10.2. Chemical stability

Stable under normal conditions

### 10.3. Possibility of hazardous reactions

Possible dangerous reaction with agents oxidizers, alkalis, aminos

### 10.4. Conditions to avoid

Stable under normal conditions.

### 10.5. Incompatible materials

None in particular.

### 10.6. Hazardous decomposition products

None.

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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Toxicological information of the mixture:

N.A.

Toxicological information of the main substances found in the mixture:

methanol - CAS: 67-56-1

LD50 (RAT) ORAL SINGLE DOSE: 5628 MG/KG

LD50 (RABBIT) SKINSINGLE DOSE: 15800 MG/KG

nitrometane - CAS: 75-52-5

LD50 (RAT) ORAL: 340 MG/KG

If not differently specified, the information required in Regulation 453/2010/EC listed below must be considered as N.A.:

- a) acute toxicity;
- b) skin corrosion/irritation;
- c) serious eye damage/irritation;
- d) respiratory or skin sensitisation;
- e) germ cell mutagenicity;
- f) carcinogenicity;
- g) reproductive toxicity;
- h) STOT-single exposure;
- i) STOT-repeated exposure;
- j) aspiration hazard.

## SECTION 12: Ecological information

- 12.1. Toxicity  
Adopt good working practices, so that the product is not released into the environment.  
N.A.
- 12.2. Persistence and degradability  
It is predictable that the material degenerates slowly in the environment.
- 12.3. Bioaccumulative potential  
Not bioaccumulative.
- 12.4. Mobility in soil  
Not available
- 12.5. Results of PBT and vPvB assessment  
vPvB Substances: None - PBT Substances: None
- 12.6. Other adverse effects  
None

## SECTION 13: Disposal considerations

- 13.1. Waste treatment methods  
Recover if possible. In so doing, comply with the local and national regulations currently in force.

## SECTION 14: Transport information



- 14.1. UN number  
ADR-UN Number: 1992  
IATA-UN Number: 1992  
IMDG-UN Number: 1992
- 14.2. UN proper shipping name  
ADR-Shipping Name: FLAMMABLE LIQUID TOXIC, N.O.S. (methanol, nitrometane)  
IATA-Shipping Name: FLAMMABLE LIQUID TOXIC, N.O.S. (methanol, nitrometane)  
IMDG-Shipping Name: FLAMMABLE LIQUID TOXIC, N.O.S. (methanol, nitrometane)
- 14.3. Transport hazard class(es)  
ADR-Class: 3  
ADR - Hazard identification number: 336  
IATA-Class: 3  
IATA-Label: 3 + 6.1

IMDG-Class:	3
14.4. Packing group	
ADR-Packing Group:	II
IATA-Packing group:	II
IMDG-Packing group:	II
14.5. Environmental hazards	
ADR-environmental pollutant:	No
IMDG-Marine pollutant:	No
14.6. Special precautions for user	
ADR-Subsidiary risks:	6.1
ADR-S.P.:	274
ADR-Tunnel Restriction Code:	(D/E)
IATA-Passenger Aircraft:	352
IATA-Subsidiary risks:	6.1
IATA-Cargo Aircraft:	364
IATA-S.P.:	A3
IATA-ERG:	3HP
IMDG-EmS:	F-E , S-D
IMDG-Subsidiary risks:	6.1
IMDG-Storage category:	Category B
IMDG-Storage notes:	Clear of living quarters.
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	
N.A.	

### SECTION 15: Regulatory information

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
- Dir. 67/548/EEC (Classification, packaging and labelling of dangerous substances)
  - Dir. 99/45/EC (Classification, packaging and labelling of dangerous preparations)
  - Dir. 98/24/EC (Risks related to chemical agents at work)
  - Dir. 2000/39/EC (Occupational exposure limit values)
  - Dir. 2006/8/EC
  - Regulation (EC) n. 1907/2006 (REACH)
  - Regulation (EC) n. 1272/2008 (CLP)
  - Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
  - Regulation (EU) n. 453/2010 (Annex I)
  - Regulation (EU) n. 286/2011 (ATP 2 CLP)
- Where applicable, refer to the following regulatory provisions :
- Directive 82/501/EEC ('Activities linked to risks of serious accidents') and subsequent amendments.
  - Regulation (EC) nr 648/2004 (detergents).
  - 1999/13/EC (VOC directive)
- 15.2. Chemical safety assessment
- No

### SECTION 16: Other information

Full text of phrases referred to in Section 3:

- R10 Flammable.
  - R11 Highly flammable.
  - R22 Harmful if swallowed.
  - R23/24/25 Toxic by inhalation, 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.
- 
- H225 Highly flammable liquid and vapour.
  - H370 Causes damage to organs.
  - H301 Toxic if swallowed.



H311 Toxic in contact with skin.  
H331 Toxic if inhaled.  
H226 Flammable liquid and vapour.  
H302 Harmful if swallowed.

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,  
Commission of the European Communities  
SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van  
Nostrand Reinold  
CCNL - Appendix 1

Insert further consulted bibliography

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.  
CAS: Chemical Abstracts Service (division of the American Chemical Society).  
CLP: Classification, Labeling, Packaging.  
DNEL: Derived No Effect Level.  
EINECS: European Inventory of Existing Commercial Chemical Substances.  
GefStoffVO: Ordinance on Hazardous Substances, Germany.  
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.  
IATA: International Air Transport Association.  
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).  
ICAO: International Civil Aviation Organization.  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).  
IMDG: International Maritime Code for Dangerous Goods.  
INCI: International Nomenclature of Cosmetic Ingredients.  
KSt: Explosion coefficient.  
LC50: Lethal concentration, for 50 percent of test population.  
LD50: Lethal dose, for 50 percent of test population.  
LTE: Long-term exposure.  
PNEC: Predicted No Effect Concentration.  
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.  
STE: Short-term exposure.  
STEL: Short Term Exposure limit.  
STOT: Specific Target Organ Toxicity.  
TLV: Threshold Limiting Value.  
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).  
WGK: German Water Hazard Class.