SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING.

1.1 Product identifier.

Product Name: RANGE OF NITROLUX PRODUCTS

UFI	References	Product name
V600-W0PH-W00R-4D4K	NF01121 NF01122 NF01125	NITROLUX ENERGY2 OFF ROAD 16% BY WEIGHT
AY00-F0W3-P006-3FD5	NF01121-PRO NF01122-PRO NF01125-PRO	NITROLUX ENERGY3 OFF ROAD PRO 16% BY WEIGHT EU NO LICENCE
9800-E0CX-7007-TQQN	NF01161 NF01162 NF01165	NITROLUX ENERGY2 OFF ROAD 16%
JC00-X02A-H00R-F29Q	NF01251 NF01252 NF01255	NITROLUX ENERGY2 OFF ROAD 25%
4410-G08W-9006-E4J9	NF01251-PRO NF01252-PRO NF01255-PRO	NITROLUX ENERGY3 OFF ROAD PRO 25%
AF00-E0RQ-U007-4DVS	NF01301 NF01302 NF01305	NITROLUX ENERGY2 OFF ROAD 30%
M110-Y0KG-Y00P-RSY7	NF02121 NF02122 NF02125	NITROLUX ENERGY3 ON ROAD 16% BY WEIGHT EU NO LICENCE
SH00-X0F4-400Q-SRFU	NF02161 NF02162 NF02165	NITROLUX ENERGY2 ON ROAD 16%
JM00-F04H-F007-F31W	NF02251 NF02252 NF02255	NITROLUX ENERGY2 ON ROAD 25%
1Q00-X0TW-R00Q-3EMY	NF03101 NF03102 NF03105	NITROLUX ENERGY2 AERO 10%
9S00-F0HA-2006-SS71	NF03201 NF03202 NF03205	NITROLUX ENERGY2 AERO 20%
7V00-Y06Q-C00Q-E3T3	NF03301 NF03302 NF03305	NITROLUX ENERGY2 AERO 30%

1.2 Relevant identified uses of the substance or mixture and uses advised against.
Professional use. Fuel for engines of model-maker.

Uses advised against:
All uses not specified in this section or in section 7.3

1.3 Details of the supplier of the safety data sheet.

Company: MODELIX RACING, S.L.
Address: c/ Remences 90 - Pol. Ind. Vallveric
City: 08304 - MATARO
Province: (Barcelona) ESPAÑA
Telephone: (+34) 93 7419121
E-mail: info@modelixracing.com

1.4 Emergency telephone number:
(+34) 93 7419121 (Available during office hours from Monday to Friday from 9am to 6pm; SDS).
Hazmat Service Emergency Number: 800-373-7542 (Available 24 hours).
International Shipments: +1-484-951-2432 (Available 24 hours).

SECTION 2: HAZARDS IDENTIFICATION.

2.1 Classification of the substance or mixture.
In accordance with Regulation (EU) No 1272/2008:
Acute Tox. 3 : Toxic in contact with skin.
Acute Tox. 3 : Toxic if inhaled.
Acute Tox. 3 : Toxic if swallowed.
Flam. Liq. 2 : Highly flammable liquid and vapour.
STOT SE 1 : Causes damage to organs.

2.2 Label elements.
Labelling in accordance with Regulation (EU) No 1272/2008:
Pictograms:

-Continued on next page.-

Signal Word:
Danger

H statements:

H225	Highly flammable liquid and vapour.
H301+H311+H331	Toxic if swallowed, in contact with skin or if inhaled.
H370	Causes damage to organs.

P statements:

P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe vapours.
P264	Wash with clean water and soap thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P312	Call a POISON CENTER/doctor if you feel unwell.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container in accordance with current regulations on hazardous waste.

Contains:
methanol
nitromethane

The making available, introduction, possession or use of explosives precursors by private persons are subject to Regulation (EU) 2019/1148

2.3 Other hazards.
The product may have the following additional risks:
The product does not meet the criteria to be considered PBT or vPvB according to Regulation (EC) No. 1907/2006 (REACH), Annex XIII.

The product does not contain substances included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

The making available, introduction, possession or use of explosives precursors by private persons are subject to Regulation (EU) 2019/1148

Endocrine-disrupting properties: The product fails to meet the criteria.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS.

3.1 Substances.
Not Applicable.

3.2 Mixtures.
Substances posing a danger to health or the environment in accordance with the Regulation (EC) No. 1272/2008, assigned a Community exposure limit in the workplace, and classified as PBT/vPvB or included in the Candidate List:

Identifiers	Name	Concentration (%v/v)	Concentration (%w/w)	(*)Classification - Regulation (EC) No 1272/2008	
				Classification	specific concentration limit
Index No: 603-001-00-X CAS No: 67-56-1 EC No: 200-659-6 Registration No: 01-2119433307-44-XXXX	[1] methanol	50 – 80 %	40 - 75 %	Acute Tox. 3 *, H311 - Acute Tox. 3 *, H331 - Acute Tox. 3 *, H301 - Flam. Liq. 2, H225 - STOT SE 1, H370 **	STOT SE 1, H370: C ≥ 10 % STOT SE 2, H371: 3 % ≤ C < 10 %

-Continued on next page.-

Index No: 609-036-00-7 CAS No: 75-52-5 EC No: 200-876-6	[1] nitromethane	10 - 30 %	10 - 40 %	Acute Tox. 4 *, H302 - Flam. Liq. 3, H226	-

(*)The complete text of the H phrases is given in section 16 of this Safety Data Sheet.
*,** See Regulation (EC) No. 1272/2008, Annex VI, section 1.2.
[1] Substance with a Community workplace exposure limit (see section 8.1).

May contain impurities of the following substances <0.01% which do not affect the classification of the mixture:
Methyl nitrite CAS 624-91-9
Ethanol CAS 64-17-5
Acetonitrile CAS 75-05-8

SECTION 4: FIRST AID MEASURES.

4.1 Description of first aid measures.
Immediate medical attention is required. It is recommended to move the affected person out of the exposure area. Delayed effects may occur after the exposure to the product.

Inhalation.
Take the victim into open air; keep them warm and calm. If breathing is irregular or stops, perform artificial respiration. Do not administer anything orally. If unconscious, place them in a suitable position and seek medical assistance. The use of personal protective equipment is recommended for people providing first aid (see section 8).

Eye contact.
Remove contact lenses, if present and if it is easy to do. Wash eyes with plenty of clean and cool water for at least 20 minutes while pulling eyelids up and seek medical assistance.

Skin contact.
Remove contaminated clothing. Wash skin vigorously with water and soap or a suitable skin cleaner. NEVER use solvents or thinners. The use of personal protective equipment is recommended for people providing first aid (see section 8).

Ingestion.
If accidentally ingested, seek immediate medical attention. Keep calm. NEVER induce vomiting. The use of personal protective equipment is recommended for people providing first aid (see section 8).

4.2 Most important symptoms and effects, both acute and delayed.
Toxic Product, accidental contact may result in serious respiratory difficulties, alteration of the central nervous system and in extreme cases, unconsciousness. Immediate medical assistance is required.

4.3 Indication of any immediate medical attention and special treatment needed.
Request immediate medical attention. Never administer anything orally to persons who are unconscious. Do not induce vomiting. If the person vomits, clear the respiratory tract. Keep the person comfortable. Turn him/her over to the left side and stay there while waiting for medical care.

SECTION 5: FIREFIGHTING MEASURES.

The product is Highly inflammable, it can cause or considerably worsen a fire, the necessary prevention measures should be taken and risks avoided. In case of fire, the following measures are recommended:

5.1 Extinguishing media.
Suitable extinguishing media:
Extinguisher powder or CO_2. In case of more serious fires, also alcohol-resistant foam and water spray.

Unsuitable extinguishing media:
Do not use a direct stream of water to extinguish. In the presence of electrical voltage, you cannot use water or foam as extinguishing media.

5.2 Special hazards arising from the substance or mixture.
Special risks.
Fire can cause thick, black smoke. As a result of thermal decomposition, dangerous products can form: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products can be harmful to your health.

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During a fire and depending on its magnitude the following may occur:
- Flammable vapors or gases.

5.3 Advice for firefighters.
Use water to cool tanks, cisterns, or containers close to the heat source or fire. Take wind direction into account. Prevent the products used to fight the fire from going into drains, sewers, or waterways. Follow the instructions given in the emergency or fire evacuation plan or plans if available.

Fire protection equipment.
According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks, and boots. During extinction and depending on the magnitude and proximity to the fire, additional protective equipment such as chemical protection gloves, heat-reflecting suits or gas-tight suits may be required.
Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

SECTION 6: ACCIDENTAL RELEASE MEASURES.

6.1 Personal precautions, protective equipment and emergency procedures.
Eliminate possible ignition points and ventilate the area. No smoking. Avoid breathing fumes. For exposure control and individual protection measures, see section 8.

6.2 Environmental precautions.
Prevent the contamination of drains, surface or subterranean waters, and the ground.

6.3 Methods and material for containment and cleaning up.
Contain and collect spillage with inert absorbent material (earth, sand, vermiculite, Kieselguhr...) and clean the area immediately with a suitable decontaminant. Do not absorb in sawdust or other combustible absorbents.
Deposit waste in closed and suitable containers for disposal, in compliance with local and national regulations

6.4 Reference to other sections.
For exposure control and individual protection measures, see section 8.
For later elimination of waste, follow the recommendations under section 13.

SECTION 7: HANDLING AND STORAGE.

7.1 Precautions for safe handling.
The fumes are heavier than air and can spread across the ground. They can form explosive mixtures with air. Prevent the creation of flammable or explosive fume concentrations in the air; prevent fume concentrations above work exposure limits. The product must only be used in areas where all unprotected flames and other ignition points have been eliminated. Electrical equipment has to be protected according to applicable standards.
The product can be electrostatically charged: always use earth grounds when transferring the product. Operators must use anti-static footwear and clothing, and floors must be conductors.
Keep the container tightly closed and isolated from heat sources, sparks, and fire. Do not use tools that can cause sparks. For personal protection, see section 8.
In the application area, smoking, eating, and drinking must be prohibited.
Follow legislation on occupational health and safety.
Never use pressure to empty the containers. They are not pressure-resistant containers. Keep the product in containers made of a material identical to the original.

7.2 Conditions for safe storage, including any incompatibilities.
Store according to local legislation. Observe indications on the label. Store the containers in a dry and well-ventilated place, far from sources of heat and direct solar light. Keep far away from ignition points. Keep away from oxidizing agents and from highly acidic or alkaline materials. Do not smoke. Prevent the entry of non-authorized persons. Once the containers are open, they must be carefully closed and placed vertically to prevent spills.

Technical recommendations for the prevention of fires and explosions
Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, sparks,...) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear. Comply with the essential security requirements for equipment and systems defined in Directive 2014/34/EC (ATEX 100) and with the minimum requirements for protecting the

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security and health of workers under the selection criteria of Directive 1999/92/EC (ATEX 137). Consult section 10 for conditions and materials that should be avoided.

Classification and threshold amount of storage in accordance with Annex I to Directive 2012/18/EU (SEVESO III):

		Qualifying quantity (tonnes) for the application of	
Code	Description	Lower-tier requirements	Upper-tier requirements
H2	ACUTE TOXIC	50	200
H3	STOT SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE	50	200
P5b	FLAMMABLE LIQUIDS	50	200

7.3 Specific end use(s).
See section 1.2. Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.

8.1 Control parameters.

Work exposure limit for:

Name	CAS No.	Country	Limit value	ppm	mg/m³
methanol	67-56-1	European Union [1]	Eight hours	200 (skin)	260 (skin)
			Short term		
		United Kingdom [2]	Eight hours	200	266
			Short term	250	333
		Éire [3]	Eight hours	200	260
			Short term		
		United States [4] (Cal/OSHA)	Eight hours	200	
			Short term	250 (Ceiling) 1000	
		United States [5] (NIOSH)	Eight hours	200	
			Short term	250	
		United States [6] (OSHA)	Eight hours	200	260
			Short term		
nitromethane	75-52-5	United Kingdom [2]	Eight hours	100	254
			Short term	150	381
		Éire [3]	Eight hours	20	50
			Short term		
		United States [4] (Cal/OSHA)	Eight hours	2	
			Short term		
		United States [6] (OSHA)	Eight hours	100	250
			Short term		

[1] According both Binding Occupational Esposure Limits (BOELVs) and Indicative Occupational Exposure Limits (IOELVs) adopted by Scientific Committee for Occupational Exposure Limits to Chemical Agents (SCOEL).
[2] According Limit Value (IOELV) list in 2nd Indicative Occupational Exposure adobted by Health and Safety Executive.
[3] According Code of Practice for the Safety, Health and Welfare at Work (Chemicals Agents) Regulations adopted by Health and Safety Authority (HSA).
[4] California Division of Occupational Safety and Health (Cal/OSHA) Permissible Exposure Limits (PELs).
[5] National Institute for Occupational Safety and Health. NIOSH Recommendations for occupational safety and health, Compendium of Policy Documents and Statements, January, 1992, DHHS (NIOSH) Publication No. 92-100.
[6] Occupational Safety and Health Administration, United States Department of Labor. Permissible Exposure limits (PELs), California Division of Occupational Safety and Health (Cal/OSHA) Permissible Exposure Limits (PELs).
The product does NOT contain substances with Biological Limit Values.
Concentration levels DNEL/DMEL:

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Name	DNEL/DMEL	Type	Value
methanol CAS No: 67-56-1 EC No: 200-659-6	DNEL (Workers)	Inhalation, Long-term, Local effects	260 (mg/m³)
	DNEL (General population)	Inhalation, Long-term, Local effects	50 (mg/m³)
	DNEL (Workers)	Inhalation, Long-term, Systemic effects	260 (mg/m³)
	DNEL (General population)	Inhalation, Long-term, Systemic effects	50 (mg/m³)
	DNEL (Workers)	Dermal, Long-term, Systemic effects	40 (mg/kg bw/day)
	DNEL (General population)	Dermal, Long-term, Systemic effects	8 (mg/kg bw/day)
	DNEL (Workers)	Dermal, Acute, Systemic effects	40 (mg/kg bw/day)
	DNEL (General population)	Dermal, Acute, Systemic effects	8 (mg/kg bw/day)

DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.
DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.
Concentration levels PNEC:

Name	Details	Value
methanol CAS No: 67-56-1 EC No: 200-659-6	aqua (freshwater)	20,8 (mg/L)
	aqua (marine water)	2,08 (mg/L)
	aqua (intermittent releases)	1540 (mg/L)
	STP	100 (mg/L)
	sediment (freshwater)	77 (mg/kg sediment dw)
	sediment (marine water)	7,7 (mg/kg sediment dw)
	soil	3,18 (mg/kg soil dw)

PNEC: Predicted No Effect Concentration, concentration of the substance below which adverse effects are not expected in the environmental compartment.

8.2 Exposure controls.

Measures of a technical nature:
Provide adequate ventilation, which can be achieved by using good local exhaust-ventilation and a good general exhaust system.

Individual protection measures, such as personal protective equipment As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <> in accordance with Regulation (EU) 2016/425. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

Respiratory protection
The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.

Specific protection for the hands
As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

Additional emergency measures
Emergency shower: ANSI Z358-1, ISO 3864-1:2011, ISO 3864-4:2011
Eyewash stations: DIN 12 899, ISO 3864-1:2011, , ISO 3864-4:2011

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Concentration:	100 %
Uses:	Professional use. Fuel for engines of model-maker.
Breathing protection:	
PPE:	Filter mask for protection against gases and particles.
Characteristics:	«CE» marking, category III. The mask must have a wide field of vision and an anatomically designed form in order to be sealed and watertight.
CEN standards:	EN 136, EN 140, EN 405
Maintenance:	Should not be stored in places exposed to high temperatures and damp environments before use. Special attention should be paid to the state of the inhalation and exhalation valves in the face adaptor.
Observations:	Read carefully the manufacturer's instructions regarding the equipment's use and maintenance. Attach the necessary filters to the equipment according to the specific nature of the risk (Particles and aerosols: P1-P2-P3, Gases and vapours: A-B-E-K-AX), changing them as advised by the manufacturer.
Filter Type needed:	A2
Hand protection:	
PPE:	Non-disposable protective gloves against chemicals.
Characteristics:	«CE» marking, category III. Check the list of chemicals for which the glove has been tested.
CEN standards:	EN 374-1, En 374-2, EN 374-3, EN 420
Maintenance:	A schedule for the periodical replacement of gloves should be established in order to guarantee their replacement before pollutants permeate them. The use of contaminated gloves could be more dangerous than not using gloves, since the pollutant can gradually accumulate in the glove's material.
Observations:	They are to be replaced whenever tears, cracks or deformations are observed or when exterior dirt could reduce their strength.

Material:	nitrile	Breakthrough time (min.):	> 480	Material thickness (mm):	0,45

Eye protection:	
PPE:	Protective goggles with built-in frame.
Characteristics:	«CE» marking, category II. Eye protector with built-in frame for protection against dust, smoke, fog and vapour.
CEN standards:	EN 165, EN 166, EN 167, EN 168
Maintenance:	Visibility through lenses should be ideal. Therefore, these parts should be cleaned daily. Protectors should be disinfected periodically following the manufacturer's instructions.
Observations:	Some signs of wear and tear include: yellow colouring of the lenses, superficial scratching of the lenses, scraping etc.
Skin protection:	
PPE:	Anti-static protective clothing.
Characteristics:	«CE» marking, category II. Protective clothing should not be too tight or loose in order not to obstruct the user's movements.
CEN standards:	EN 340, EN 1149-1, EN 1149-2, EN 1149-3, EN 1149-5
Maintenance:	In order to guarantee uniform protection, follow the washing and maintenance instructions provided by the manufacturer.
Observations:	The protective clothing should offer a level of comfort in line with the level of protection provided in terms of the hazard against which it protects, bearing in mind environmental conditions, the user's level of activity and the expected time of use.
PPE:	Anti-static safety footwear against chemicals.
Characteristics:	«CE» marking, category III. Check the list of chemicals against which the footwear is resistant.
CEN standards:	EN ISO 13287, EN 13832-1, EN 13832-2, EN 13832-3, EN ISO 20344, EN ISO 20345
Maintenance:	For correct maintenance of this kind of safety footwear, it is necessary to observe the instructions specified by the manufacturer. The footwear should be replaced as soon as any sign of damage is observed.
Observations:	The footwear should be cleaned regularly and dried when damp, although it should not be placed too close to a source of heat in order to avoid any sharp changes in temperature.

Advice on personal protection is valid for high levels of exposure.
Choose personal protections adapted to the risks of exposure

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

9.1 Information on basic physical and chemical properties.
Appearance:

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Physical state at 20 ºC: Liquid
Appearance: Liquid
Colour: Orange translucent
Odour: Characteristic. Contains Alcohol.
Odour threshold: Not Applicable due to the nature of the product, not providing information property of its hazards

Volatility:
Boiling point at atmospheric pressure: >65 ºC
Vapour pressure at 25 ºC: 169 hPa
Evaporation rate at 20 ºC: N.A

Flammability:
Flash Point: 15 ºC
Flammability (solid, gas): the product is a flammable liquid
Autoignition temperature: 455 ºC
Lower flammability limit: 4.4%
Upper flammability limit: 38.5%

Product description:
Relative density at 20 ºC: 0.80-0.95
Dynamic viscosity at 20 ºC: N.A
Kinematic viscosity at 20 ºC: N.A
Kinematic viscosity at 40 ºC N.A
Concentration: N.A, mixture
pH: N.A
Vapour density at 20 ºC: N.A
Partition coefficient n-octanol/water 20 ºC: N.A
Solubility in water at 20 ºC: N.A
Solubility properties: N.A.
Decomposition temperature: N.A
Melting point/freezing point: N.A

Particle characteristics:
Median equivalent diameter: Liquid, N.A./N.A.

N.A.= Not Available/Non- Applicable due to the nature of the product, not providing information property of its hazards

9.2 Other information:
Information with regard to physical hazard classes:
Corrosive to metals: N.A
Heat of combustion: N.A
Aerosols-total percentage (by mass) of flammable components: N.A
Surface tension at 20 ºC: N.A
Refraction index: N.A
% Solids: 0%
Explosive properties: N.A./N.A.
Oxidising properties: Non-oxidising. Based on the chemical structure, the mixture is incapable of exothermically reacting with combustible materials. According to REACH, Annex VII, 7.13, column 2, the study does not need to be carried out.

N.A.= Not Available/Non- Applicable due to the nature of the product, not providing information property of its hazards

SECTION 10: STABILITY AND REACTIVITY.

10.1 Reactivity.
The product does not present hazards by their reactivity.

10.2 Chemical stability.
Unstable in contact with:
- Acids.
- Bases.
- Oxidizing agents.

10.3 Possibility of hazardous reactions.
In certain conditions this may cause a polymerization reaction.

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10.4 Conditions to avoid.
Avoid the following conditions:
- Heating.
- High temperature, flames, sparks, sources of ignition.
- Contact with incompatible materials.
- Do not subject to hock/friction.

10.5 Incompatible materials.
Avoid the following materials:
- Acids.
- Bases.
- Oxidizing/Reducing agents.
- Amines, Aldehydes, Ketones, Organic acids, Lead, Acetone, Metals, copper.

10.6 Hazardous decomposition products.
Depending on conditions of use, can be generated the following products:
- CO_x (carbon oxides).
- Organic compounds.
In the event of a fire, hazardous decomposition products such as carbon monoxide and dioxide, nitrogen fumes and oxides. may be generated.

SECTION 11: TOXICOLOGICAL INFORMATION.

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008.

Toxicological information about the substances present in the composition.

Name	Acute toxicity			
	Type	Test	Kind	Value
methanol CAS No: 67-56-1 EC No: 200-659-6	Oral	LD50	Rat	5630 mg/kg bw [1] [1] Gigiena Truda i Professional'nye Zabolevaniya. Labor Hygiene and Occupational Diseases. Vol. 19(11), Pg. 27, 1975
	Dermal	LD50	Rabbit	15800 mg/kg bw [1] [1] Raw Material Data Handbook, Vol.1: Organic Solvents, 1974. Vol. 1, Pg. 74, 1974
	Inhalation	LC50	Rat	83.9 mg/l (4 h) [1] [1] Raw Material Data Handbook, Vol.1: Organic Solvents, 1974. Vol. 1, Pg. 74, 1974
nitromethane CAS No: 75-52-5 EC No: 200-876-6	Oral	LD50	Rat	1478 mg/kg
	Dermal	LD50	rabbit	>2000 mg/kg [1] [1] OECD 402
	Inhalation	LC100	Rat	13000 ppm (6 h)

a) acute toxicity;
Product classified:
Acute toxicity (Dermal), Category 3: Toxic in contact with skin.
Acute toxicity (Inhalation), Category 3: Toxic if inhaled.
Acute toxicity (Oral), Category 3: Toxic if swallowed.

Acute Toxicity Estimate (ATE):
Mixtures:
ATE (Dermal) = 404-500 mg/kg
ATE (Inhalation) = 4.2-5.0 mg/l/4 h (Fumes)
ATE (Oral) = 130-150 mg/kg

b) skin corrosion/irritation;
Not conclusive data for classification.

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c) serious eye damage/irritation;
Not conclusive data for classification.

d) respiratory or skin sensitisation;
Not conclusive data for classification.

e) germ cell mutagenicity;
Not conclusive data for classification.

f) carcinogenicity;
Not conclusive data for classification.

IARC: 2B - Group 2B: Possibly carcinogenic to humans (Nitromethane)
NTP: Reasonably anticipated to be a human carcinogen (Nitromethane)
ACGIH: A3

IARC (International Agency for Research on Cancer) IARC (International Agency for Research on Cancer)
Group 1 - Carcinogenic to Humans
Group 2A - Probably Carcinogenic to Humans
Group 2B - Possibly Carcinogenic to Humans

NTP: (National Toxicity Program) NTP: (National Toxicity Program)
Known - Known Carcinogen
Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

ACGIH: (American Conference of Governmental Industrial Hygienists)
A1 - Known Human Carcinogen
A2 - Suspected Human Carcinogen
A3 - Animal Carcinogen

This product contains nitromethane that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification. Evidence in animals but not in humans.

g) reproductive toxicity;
Not conclusive data for classification.

h) STOT-single exposure;
Product classified:
Specific target organ toxicity following a single exposure, Category 1: Causes damage to organs.
Methanol: neurotoxic.

i) STOT-repeated exposure;
Not conclusive data for classification.

j) aspiration hazard; Not conclusive data for classification.

11.2. Information on other hazards
Endocrine disrupting properties
Endocrine-disrupting properties: The product fails to meet the criteria.

Other information
Non-applicable

SECTION 12: ECOLOGICAL INFORMATION.

12.1 Toxicity.

Name	Ecotoxicity

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	Type	Test	Kind	Value
methanol CAS No: 67-56-1 EC No: 200-659-6	Fish	LC50 LC50	Fish Lepomis macrochirus	24000 mg/l (96 h) [1] 15400 mg/L (96 h)
		[1] Poirier, S.H., M.L. Knuth, C.D. Anderson-Buchou, L.T. Brooke, A.R. Lima, and P.J. Shubat 1986. Comparative Toxicity of Methanol and N,N-Dimethylformamide to Freshwater Fish and Invertebrates. Bull.Environ.Contam.Toxicol. 37(4):615-621. Bengtsson, B.E., L. Renberg, and M. Tarkpea 1984. Molecular Structure and Aquatic Toxicity - an Example with C1-C13 Aliphatic Alcohols. Chemosphere 13(5/6):613-622		
	Aquatic invertebrates	LC50 EC50	Crustacean Nitrocra spinipes	3290 mg/l (48 h) [1] 12000 mg/L (96 h)
		[1] Guilhermino, L., T. Diamantino, M.C. Silva, and A.M.V.M. Soares 2000. Acute Toxicity Test with Daphnia magna: An Alternative to Mammals in the Prescreening of Chemical Toxicity?. Ecotoxicol.Environ.Saf. 46(3):357-362		
	Aquatic plants	EC50	Selenastrum capricornutumc	22000 mg/L (96 h) [1]
		[1] Ecotoxicology and Environmental Safety 71: 166-1711, 2008		
nitromethane CAS No: 75-52-5 EC No: 200-876-6	Fish	LC50	Pimephales promelas	> 659.2 mg/l (96 h)
	Aquatic invertebrates	EC50	Daphnia magna	>103 mg/l (48 h)
	Aquatic plants	EC50 EC50	Algae, Pseudokirchneriella subcapitata Algae, Pseudokirchneriella subcapitata	68.2 mg/l (96 h) 53.1 mg/l (72 h)

12.2 Persistence and degradability.
No information is available regarding the biodegradability of the substances present.
No information is available on the degradability of the substances present.No information is available about persistence and degradability of the product.

12.3 Bioaccumulative potential.
Information about the bioaccumulation of the substances present.

Name	Bioaccumulation			
	Log Pow	BCF	NOECs	Level
methanol CAS No: 67-56-1 EC No: 200-659-6	-0,74	3	-	Very low
nitromethane CAS No: 75-52-5 EC No: 200-876-6	-0,35	1,4	-	Very low

12.4 Mobility in soil.
No information is available about the mobility in soil.
The product must not be allowed to go into sewers or waterways.
Prevent penetration into the ground.

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12.5 Results of PBT and vPvB assessment.
The product does not meet the criteria to be considered PBT or vPvB according to Regulation (EC) No. 1907/2006 (REACH), Annex XIII. Inorganic.

12.6. Endocrine disrupting properties
Endocrine-disrupting properties: The product fails to meet the criteria. (see section 2.3. Other hazards)

12.7. Other adverse effects
No information is available about other adverse effects for the environment.

SECTION 13: DISPOSAL CONSIDERATIONS.

13.1 Waste treatment methods.
Do not dump into sewers or waterways. Waste and empty containers must be handled and eliminated according to current, local/national legislation.
Follow the provisions of Directive 2008/98/EC regarding waste management.

Waste management (disposal and evaluation): Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See paragraph 6.2.

Regulations related to waste management:
In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

SECTION 14: TRANSPORT INFORMATION.

Transport following ADR rules for road transport, RID rules for railway, ADN for inner waterways, IMDG for sea, and ICAO/IATA for air transport.
Land: Transport by road: ADR, Transport by rail: RID.
Transport documentation: Consignment note and written instructions
Sea: Transport by ship: IMDG.
Transport documentation: Bill of lading
Air: Transport by plane: ICAO/IATA.
Transport document: Airway bill.

14.1 UN number or ID number.
UN No: UN1992

14.2 UN proper shipping name.
Description:
ADR:
UN 1992, FLAMMABLE LIQUID, TOXIC, N.O.S. (CONTAINS METHANOL / NITROMETHANE), 3 (6.1), PG II, (D/E)

IMDG:
UN 1992, FLAMMABLE LIQUID, TOXIC, N.O.S. (CONTAINS METHANOL / NITROMETHANE), 3 (6.1), PG II (14ºC)

ICAO/IATA:
UN 1992, FLAMMABLE LIQUID, TOXIC, N.O.S. (CONTAINS METHANOL / NITROMETHANE), 3 (6.1), PG II

14.3 Transport hazard class(es).
Class(es): 3

14.4 Packing group.
Packing group: II

14.5 Environmental hazards.
Marine pollutant: No

14.6 Special precautions for user.
Labels: 3, 6.1

-Continued on next page.-


Hazard number: 336
ADR LQ: 1 L
IMDG LQ: 1 L
ICAO LQ: 1 L

Provisions concerning carriage in bulk ADR: Not authorized carriage in bulk in accordance with ADR.
Transport by ship, FEm – Emergency sheets (F – Fire, S - Spills): F-E,S-D
Proceed in accordance with point 6.

14.7 Maritime transport in bulk according to IMO instruments
The product is not transported in bulk.

SECTION 15: REGULATORY INFORMATION.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.
The product is not affected by the Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer.

Product classification according to Annex I of Directive 2012/18/EU (SEVESO III): H2,H3,P5b
The product is not affected by Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products.
The product is not affected by the procedure established Regulation (EU) No 649/2012, concerning the export and import of dangerous chemicals.

The product is affected by Regulation (EU) 2019/1148, relating to explosives precursors.

Kind of pollutant to water (Germany): WGK 2: Hazardous to water. (Autoclassified according to the AwSV Regulations)

15.2 Chemical safety assessment.
No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: OTHER INFORMATION.

Modifications related with the previous version:
Sections 1, 2.1, 2.2, 3.2, 9.1, 10, 11. Adaptation to Regulation 2020/878

Legislation related to safety data sheets:
The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878).

Complete text of the H phrases that appear in section 3:
The phrases indicated do not refer to the product itself, they are for information only and refer to the components individual that appear in section 3

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.
H371	May cause damage to organs.

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Classification codes:
Acute Tox. 3 : Acute toxicity (Dermal), Category 3
Acute Tox. 3 : Acute toxicity (Inhalation), Category 3
Acute Tox. 3 : Acute toxicity (Oral), Category 3
Acute Tox. 4 : Acute toxicity (Oral), Category 4
Flam. Liq. 2 : Flammable liquid, Category 2
Flam. Liq. 3 : Flammable liquid, Category 3
STOT SE 1 : Specific target organ toxicity following a single exposure, Category 1

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Physical hazards	On basis of test data/ Calculation method (2.6.4.3)
Health hazards	Calculation method
Environmental hazards	Calculation method

It is advisable to carry out basic training with regard to health and safety at work in order to handle this product correctly.

Abbreviations and acronyms used:
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
AwSV: Facility Regulations for handling substances that are hazardous for the water.
BCF: Bioconcentration factor.
CEN: European Committee for Standardization.
COD: Chemical Oxygen Demand
BOD5: Biological Oxygen Demand at 5 days
DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.
DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.
EC50: Half maximal effective concentration.
PPE: Personal protection equipment.
IARC: International Agency for Research on Cancer
IATA: International Air Transport Association.
ICAO: International Civil Aviation Organization.
IMDG: International Maritime Code for Dangerous Goods.
LC50: Lethal concentration, 50%.
LD50: Lethal dose, 50%.
Log Pow: Logarithm of the partition octanol-water.
NOEC: No observed effect concentration.
PNEC: Predicted No Effect Concentration, concentration of the substance below which adverse effects are not expected in the environmental compartment.
PBT: Persistent Bioaccumulative Toxic
RID: Regulations Concerning the International Transport of Dangerous Goods by Rail.
WGK: Water hazard classes.

Key literature references and sources for data:
http://eur-lex.europa.eu/homepage.html
http://echa.europa.eu/
Regulation (EU) 2020/878.
Regulation (EC) No 1907/2006.
Regulation (EU) No 1272/2008.
Regulation (EU) 2019/1148.

The information given in this Safety Data Sheet has been drafted in accordance with COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

The information in this Safety Data Sheet on the Preparation is based on current knowledge and on current EC and national laws, as far as the working conditions of the users is beyond our knowledge and control. The product must not be used for purposes other than those that are specified without first having written instructions on how to handle. It is always the responsibility of the user to take the appropriate measures in order to comply with the requirements established by current legislation. The information contained in this Safety Sheet only states a description of the safety requirements for the preparation, and it must not be considered as a guarantee of its properties.

-End of safety data sheet.-