



MSDS

Material Safety Data Sheet

NUPROL Gas Series

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product name:	Nuprol 1.0, Nuprol 2.0, Nuprol 2.0 Mini, Nuprol 3.0, Nuprol 4.0
Product code:	9044, 9031, 9043, 9035, 9036
Company name:	Nuprol Ltd Unit 11, Epsom Business Park Kiln Lane Epsom Surrey KT17 1JF
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2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients:	Propane (CAS-No.74-98-6) (EINECS): 200-827-9 100%
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3. HAZARDS IDENTIFICATION

Main hazards:	EXTREMELY FLAMMABLE. PRESSURISED CONTAINER: MAY BURST IF HEATED.
Other hazards:	KEEP AWAY FROM HEAT, HOT SURFACES, SPARKS, OPEN FLAMES AND OTHER IGNITION SOURCES. NO SMOKING, DO NOT SPRAY ON AN OPEN FLAME OR OTHER IGNITION SOURCE, PRESSURISED CONTAINER: DO NOT PIERCE OR BURN, EVEN AFTER USE, PROTECT FROM SUNLIGHT. DO NOT EXPOSE TO TEMPERATURES EXCEEDING 50 °C/122°F, KEEP OUT OF REACH OF CHILDREN.

4. FIRST AID MEASURES (ACTION)

Skin contact:	Wash immediately with plenty of soap and water.
Eye contact:	Flush with water (preferably using eye wash equipment) until irritation subsides. Seek medical advice if symptoms persist.
Ingestion:	Wash out mouth thoroughly and drink 1-2 glasses of water in small sips. Seek medical advice in case of persistent discomfort
Inhalation:	Seek fresh air. Seek medical advice in case of persistent discomfort.
Burns:	Flush with water until pains ceases. Remove clothing that is not stuck to the skin, seek medical advice/transport to hospital. if possible continue flushing until medical attention is obtained.

5. FIRE-FIGHTING MEASURES

Extinguishing media:	Do not use water. Alcohol resistant foam. Carbon dioxide. Dry chemical powder. Use water spray to cool containers.
Exposure hazards:	Extremely flammable. Forms explosive air-vapor mixture. In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

Protection of fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes. Move containers from danger area if it can be done without risk. Avoid inhalation of vapor and flue gases – seek fresh air.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Refer to section 8 of SDS for personal protection details. Eliminate all sources of ignition.

Environmental precautions: Do not discharge into drains or rivers.

Clean-up procedures: Do not use equipment in clean-up procedure which may produce sparks. Absorb into dry earth or sand. Transfer to a closable, labeled salvage container for disposal by an appropriate method.

7. HANDLING AND STORAGE

Handling requirements: Work under effective process ventilation (e.g. local exhaust ventilation). Running water and eye wash equipment must be available. Wash hands before breaks, before using restroom facilities, and at the end of work. Smoking and naked flames prohibited.

Storage conditions: Store safely, out of reach of children and away from food, animal feeding stuffs, medicines, etc. Pressurised container: Protect from sunlight and do not expose to temperatures exceeding 50°C.

Suitable packaging: Must only be kept in original packaging.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Hazardous ingredients: Propane (CAS-No.74-98-6) (EINECS): 200-827-9 100%

Legal basis: Commission Directive 2000/39/EC. Last amended by Commission Directive 2009/161/EU. Contains no substances subject to reporting requirements.

8.2. Exposure controls

Appropriate engineering controls: Wear the personal protective equipment specified below.

Personal protective equipment, eye/face protection: Wear safety goggles if there is a risk of eye splash. Eye protection must conform to EN 166.

Personal protective equipment, skin protection: Wear gloves. Type of material: Nitrile rubber. Gloves must conform to EN 374.

Personal protective equipment, respiratory protection: In case of insufficient ventilation, wear respiratory protective equipment. Filter type: A. Respiratory protection must conform to one of the following standards: EN 136/140/145.

Environmental exposure controls: Ensure compliance with local regulations for emissions.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information

State: Aerosol

Colour: Colourless:

Odour:	Characteristic
Odour threshold:	No data
pH (solution for use):	No data
pH (concentrate)	No data
Melting/Freezing Point	No data
Initial boiling point and boiling range:	-42 °C
Flash point:	-104 °C (Propane)
Evaporation rate:	No data
Flammability (solid, gas):	Flammability: 450 °C (Propane)
Upper/lower flammability limits:	No data
Upper/lower explosive limits:	1,9-9,5 vol% (air)
Vapour pressure:	830 kPa (Propane)
Vapour density:	1,5 (air=1)
Relative density:	0,5 (20 °C)
Solubility:	Solubility in water: 0,12 g/l (Propane)
Partition coefficient: n-octanol/water:	No data
Auto-ignition temperature:	No data
Decomposition temperature:	No data
Viscosity:	No data
Explosive properties:	No data
Oxidising properties:	No data

9.2. Other information None.

10. STABILITY AND REACTIVITY

10.1. Reactivity	Reacts with the following: Strong oxidisers.
10.2. Chemical stability	The product is stable when used in accordance with the supplier's directions.
10.3. Possibility of hazardous reactions	Product vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.
10.4. Conditions to avoid	Avoid heating and contact with ignition sources. Avoid direct sunlight. Avoid temperatures > 50°C.
10.5. Incompatible materials	Strong oxidisers .
10.6. Hazardous decomposition products	Carbon monoxide and carbon dioxide.

11. TOXICOLOGICAL INFORMATION

Hazardous ingredients:	ACETONE IVN RAT LD50 5500 mg/kg ORL MUS LD50 3 gm/kg ORL RAT LD50 5800 mg/kg
	PROPAN-2-OL IVN RAT LD50 1088 mg/kg ORL MUS LD50 3600 mg/kg ORL RAT LD50 5045 mg/kg SCU MUS LDLO 6 gm/kg

Routes of exposure: Refer to section 4 of SDS for routes of exposure and corresponding symptoms.

12. ECOLOGICAL INFORMATION

Mobility:	Highly volatile. Soluble in water.
Persistence and degradability:	Only slightly biodegradable.
Bioaccumulative potential:	No bioaccumulation potential.

13. DISPOSAL CONSIDERATIONS

Disposal of packaging: Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.

NB:

The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. TRANSPORT INFORMATION

ADR / RID

UN no: 1950 ADR Class: 2
Classification code: 5F
Shipping name: AEROSOLS
Labelling: 2.1



IMDG / IMO

UN no: 1950 Class: 2
EmS: F-D,S-U Marine pollutant: .
Labelling: 2.1

IATA / ICAO

UN no: 1950 Class: 2
Labelling: 2.1

15. REGULATORY INFORMATION

Hazard symbols: Extremely flammable.



H phrases: H222: Extremely flammable.
H229: Pressurised container: May burst if heated.

P phrases: P102: Keep out of reach of children.
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211: Do not spray on an open flame or other ignition source.
P251: Do not pierce or burn, even after use.
P410/412: Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F

16. OTHER INFORMATION

Abbreviation explanations:	PBT: Persistent, Bioaccumulative and Toxic vPvB: Very Persistent and Very Bioaccumulative STOT: Specific Target Organ Toxicity
Classification method:	Calculation based on the hazards of the known components.
R-phrases:	R12 Extremely flammable. R12A Extremely flammable.
H-phrases:	H220 Extremely flammable gas. H222 Extremely flammable aerosol. H229 Pressurised container: May burst if heated. H280 Contains gas under pressure, may explode if heated.
Training:	A thorough knowledge of this safety data sheet should be a prerequisite condition.
Other information:	This safety data sheet has been prepared for and applies to this product only. It is based on our current knowledge and the information that the supplier was able to provide about the product at the time of preparation. The safety data sheet complies with applicable law on preparation of safety data sheets in accordance with 1907/2006/EC (REACH) as subsequently changed.