

SAFETY DATA SHEET

according to EC- directive 1907/2006/EC



Product Trade Name: METROLOK

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Revision Date 21/11/15

Version 3

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

Details of the supplier of the safety data sheet

Supplier Metrodent Limited
Lowergate Works, Lowergate
Paddock, Huddersfield
United Kingdom
+44 1484 461616
sales@metrodent.com

2. COMPOSITION INFORMATION ON INGREDIENTS

Mixtures
PROPAN-2-OL 60-100%
CAS number: 67-63-0
EC number: 200-661-7
REACH registration number: 01-2119457558-25-XXXX

Classification
Flam. Liq. 2 - H225
Eye Irrit. 2 - H319
STOT SE 3 - H336
STOT SE 3 - H336

PETROLEUM GASES, LIQUEFIED 30-60%
CAS number: 68476-85-7
EC number: 270-704-2

Classification
Flam. Gas 1 - H220
Press. Gas, Compressed - H280

N,N-DIMETHYL-P-TOLUIDINE <1%
CAS number: 99-97-8 EC number: 202-805-4

Classification
Acute Tox. 3 - H301
Acute Tox. 3 - H311
Acute Tox. 3 - H331
STOT RE 2 - H373
Aquatic Chronic 3 - H412
The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

3. HAZARDS IDENTIFICATION

Physical hazards	Aerosol 1 - H222, H229
Health hazards	Eye Irrit. 2 - H319 STOT SE 3 - H336
Environmental hazards	Not Classified
Classification (67/548/EEC or 1999/45/EC)	F+; R12. Xi; R36. R67
Human health	Vapours and spray/mists in high concentrations are narcotic. See Section 11 for additional information on health hazards.
Environmental	The product is not expected to be hazardous to the environment.
Physicochemical	Containers can burst violently or explode when heated, due to excessive pressure build-up. The product is extremely flammable. Vapours may form explosive mixtures with air.

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Label elements



Signal word Danger

Hazard statements

H222 Extremely flammable aerosol.

H229 Pressurised container: may burst if heated

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Precautionary statements

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.

P261 Avoid breathing vapour/spray.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 Call a POISON CENTER/doctor if you feel unwell.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Contains

ISOPROPANOL

Supplementary precautionary statements

P264 Wash contaminated skin thoroughly after handling.

P337+P313 If eye irritation persists: Get medical advice/attention.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container in accordance with national regulations.

Other hazards

This product does not contain any substances classified as PBT or vPvB.

4. FIRST AID MEASURES

General information

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.

Inhalation

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. If in doubt, get medical attention promptly.

Ingestion

Rinse mouth thoroughly with water. Remove person to fresh air and keep comfortable for breathing. Get medical attention.

Skin contact

Wash skin thoroughly with soap and water. Get medical attention promptly if symptoms occur after washing.

Eye contact

Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.

Protection of first aiders

First aid personnel should wear appropriate protective equipment during any rescue.

Most important symptoms and effects, both acute and delayed

General information

See Section 11 for additional information on health hazards.

Indication of any immediate medical attention and special treatment needed

Notes for the doctor

Treat symptomatically.

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5. FIRE-FIGHTING MEASURES

Extinguishing media	Suitable extinguishing media Foam, carbon dioxide or dry powder.
Special hazards arising from the substance or mixture	Specific hazards Containers can burst violently or explode when heated, due to excessive pressure build-up.
Advice for firefighters	
Protective actions during firefighting	Use water to keep fire exposed containers cool and disperse vapours. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	
Personal precautions	Avoid inhalation of vapours and contact with skin and eyes. Ensure suitable respiratory protection is worn during removal of spillages in confined areas.
Environmental precautions	Environmental precautions Avoid discharge into drains.
Methods and material for containment and cleaning up	
Methods for cleaning up	Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Absorb in vermiculite, dry sand or earth and place into containers.
Reference to other sections	Reference to other sections For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

7. HANDLING AND STORAGE

Precautions for safe handling	
Usage precautions	Keep away from heat, sparks and open flame. Read and follow manufacturer's recommendations. When sprayed on a naked flame or any incandescent material the aerosol vapours can be ignited. Use suitable respiratory protection if ventilation is inadequate.
Advice on general occupational hygiene	Wash promptly with soap and water if skin becomes contaminated. Do not eat, drink or smoke when using this product.
Conditions for safe storage, including any incompatibilities	
Storage precautions	Protect from freezing and direct sunlight. Store in a dry place. Do not store near heat sources or expose to high temperatures. Keep away from heat, sparks and open flame.
Specific end use(s)	The identified uses for this product are detailed in Section 1.2.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational exposure limits

PROPAN-2-OL

Long-term exposure limit (8-hour TWA): WEL 400 ppm 999 mg/m³

Short-term exposure limit (15-minute): WEL 500 ppm 1250 mg/m³

PETROLEUM GASES, LIQUEFIED

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1750 mg/m³

Short-term exposure limit (15-minute): WEL 1250 ppm 2180 mg/m³

WEL = Workplace Exposure Limit

Exposure controls

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.

Hand protection

No specific requirements are anticipated under normal conditions of use.

Other skin and body protection

Wear suitable protective equipment for prolonged exposure and/or high concentrations of vapours, spray or mist.

Respiratory protection

No specific recommendations. If ventilation is inadequate, suitable respiratory protection must be worn.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Aerosol.

Colour

Clear.

Odour

Solvents

Odour threshold

No information available.

pH

No information available.

Melting point

No information available.

Initial boiling point and range

-41 (-41 TO 215)°C @

Flash point

-40°C CC (Closed cup).

Evaporation rate

No information available.

Evaporation factor

No information available.

Flammability (solid, gas)

No information available.

Upper/lower flammability or explosive limits

Lower flammable/explosive limit: 1.2 % Upper flammable/explosive limit: 12 %

Vapour pressure

No information available.

Vapour density

No information available.

Relative density

0.671

Solubility(ies)

Slightly soluble in water.

Partition coefficient

No information available.

Auto-ignition temperature

425°C

Decomposition Temperature

No information available.

Viscosity

No information available.

Explosive properties

No information available.

Oxidising properties

No information available.

Other information

None.

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10. STABILITY AND REACTIVITY

Reactivity	No test data specifically related to reactivity available for this product or its ingredients.
Chemical stability	The product may not be stable under some conditions of storage or use.
Possibility of hazardous reactions	None known.
Conditions to avoid	Avoid heat, flames and other sources of ignition. Avoid exposing aerosol containers to high temperatures or direct sunlight.
Incompatible materials	None known
Hazardous decomposition products	None at ambient temperatures.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects	
Acute toxicity - oral	
ATE oral (mg/kg)	15,625.0
Acute toxicity - dermal	
ATE dermal (mg/kg)	46,875.0
Acute toxicity - inhalation	
ATE inhalation (vapours mg/l)	468.75
Inhalation	Vapours in high concentrations are narcotic. Vapours may cause headache, fatigue, dizziness and nausea.
Skin contact	Skin irritation should not occur when used as recommended.
Eye contact	Causes serious eye irritation.
Acute and chronic health hazards	No known chronic or acute health risks.
Route of entry	Skin and/or eye contact Inhalation
Toxicological information on ingredients.	
PROPAN-2-OL	
Acute toxicity - oral	
Acute toxicity oral (LD ₅₀ mg/kg)	5,045.0
Species	Rat
ATE oral (mg/kg)	5,045.0
Acute toxicity - dermal	
Acute toxicity dermal (LD ₅₀ mg/kg)	12,800.0
Species	Rabbit
ATE dermal (mg/kg)	12,800.0
Acute toxicity - inhalation	
Acute toxicity inhalation	
(LC ₅₀ vapours mg/l)	30.0
Species	Rat
ATE inhalation (vapours mg/l)	
N,N-DIMETHYL-P-TOLUIDINE	
Acute toxicity - oral	
Acute toxicity oral (LD ₅₀ mg/kg)	1,650.0
Species	Rat
ATE oral (mg/kg)	100.0
Acute toxicity - inhalation	
Acute toxicity inhalation (LC ₅₀ vapours mg/l)	1.4
Species	Rat
ATE inhalation (vapours mg/l)	3.0

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12. ECOLOGICAL INFORMATION

Toxicity

Ecological information on ingredients.

PROPAN-2-OL

Acute toxicity - fish

LC₅₀ 96 hours: 9640 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic invertebrates

EC₅₀ 48 hours: 13299 mg/l, Daphnia magna

Acute toxicity - aquatic plants

EC₁₀ 72 hours: >1 mg/l, Desmodium subspicatum

N,N-DIMETHYL-P-TOLUIDINE

Acute toxicity - fish

LC₅₀ 96 hours: 46-52 mg/l, Pimephales promelas (Fat-head Minnow)

Persistence and degradability

Persistence and degradability

No data available.

Bioaccumulative potential

Partition coefficient No information available.

Mobility in soil

No data available

Results of PBT and vPvB assessment

This product does not contain any substances classified as PBT or vPvB.

Other adverse effects

None known

13. DISPOSAL CONSIDERATIONS

General information

Dispose of waste product or used containers in accordance with local regulations

Disposal methods

Containers should be thoroughly emptied before disposal because of the risk of an explosion. Do not pierce or burn, even after use.

14. TRANSPORT INFORMATION

UN number

UN No. (ADR/RID)

1950

UN No. (IMDG)

1950

UN No. (ICAO)

1950

UN No. (ADN)

1950

UN proper shipping name

Proper shipping name (ADR/RID)

AEROSOLS

Proper shipping name (IMDG)

AEROSOLS

Proper shipping name (ICAO)

AEROSOLS, FLAMMABLE

Proper shipping name (ADN)

AEROSOLS

Transport hazard class(es)

ADR/RID class

2.1

ADR/RID classification code

5F

ADR/RID label

2.1

IMDG class

2.1

ICAO class/division

2.1

ADN class

2.1

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Transport labels



Packing group	Not applicable.
Environmental hazards	
Environmentally hazardous substance/marine pollutant	No.
Special precautions for user	
EmS	F-D, S-U
ADR transport category	2
Tunnel restriction code	(D)
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.

15. REGULATORY INFORMATION

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

National regulations The Aerosol Dispensers Regulations 2009 (SI 2009 No. 2824). EU legislation Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Council Directive of 20 May 1975 on the approximation of the laws of the Member States relating to aerosol dispensers (75/324/EEC) (as amended).

Chemical safety assessment No chemical safety assessment has been carried out.

16. OTHER INFORMATION

Revision date 20/01/2016
Revision 2
Supersedes date 30/07/2014
SDS number 4804
Hazard statements in full

H220 Extremely flammable gas.
H222 Extremely flammable aerosol.
H225 Highly flammable liquid and vapour.
H229 Pressurised container: may burst if heated
H280 Contains gas under pressure; may explode if heated.
H301 Toxic if swallowed.
H311 Toxic in contact with skin.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs through prolonged or repeated exposure.
H412 Harmful to aquatic life with long lasting effects.