

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

1.1 Product Identifier Optik Line Marker Aerosol

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

Relevant uses: Line Marking Paint. For professional use only.

1.3. Details of the supplier of the safety data sheet

Company: Indigrow Ltd, The Old Bakery, Hyde End Lane, Brimpton, Berkshire, RG7 4RH. UK.
 Phone: +44 (0) 1189 710 995
 Email: growth@indigrow.com

1.4. Emergency telephone number +44 (0) 7725 962 366

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008): Physical and Chemical Hazards: Flam. Aerosol 1 - H222
 Human health: EUH066; Eye Irrit. 2 - H319; STOT SE 3 - H336
 Environment: Not classified.

Classification (1999/45/EEC): F+; R12. R66, R67.
 Human health: Vapours/aerosol spray may irritate the respiratory system. May irritate eyes and skin. In high concentrations, vapours and aerosol mists have a narcotic effect and may cause headache, fatigue, dizziness and nausea.

Environment: The product is not expected to be hazardous to the environment.

Physical and Chemical Hazards: The product is extremely flammable, and explosive vapour/air mixtures may be formed even at normal room temperatures. Aerosol containers can explode when heated, due to excessive pressure build-up. When sprayed on a naked flame or any incandescent material the aerosol vapours can be ignited.

2.2. Label elements

Label In Accordance With (EC) No. 1272/2008:
 Signal words: Danger
 Hazard pictograms: GHS02: Flame
 GHS07: Exclamation mark
 GHS09: Environmental



Hazard Statements: H222: Extremely flammable aerosol.
 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/sparks/open flames/hot surfaces. - No smoking.
 P271: Use only outdoors or in a well-ventilated area.
 P261: Avoid breathing vapour/spray.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337+P313: If eye irritation persists: Get medical advice/attention.

Supplementary Precautionary Statements
 P211 Do not spray on an open flame or other ignition source.
 P251 Pressurized container: Do not pierce or burn, even after use.
 P264 Wash contaminated skin thoroughly after handling.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.

P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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

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

P405: Store locked up.

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

P501: Dispose of contents/container in accordance with local regulations.

Supplemental label information:

EUH066: Repeated exposure may cause skin dryness or cracking.

Contains: SOL024 Acetone

H229: Pressurised container: May burst if heated

2.3. Other hazards

This product is not identified as a PBT/vPvB substance.

SECTION 3: Composition/Information on Ingredients

Ingredient	EINECS	CAS	Classification (67/548/EEC)	CLP Classification (EC 1272/2008)	Percent
1-Methoxy-2-Propanol	203-539-1	107-98-2	R10; R67	Flam. Liq. 3: H226; STOT SE 3: H336	1-5%
Acetone	200-622-2	67-64-1	R11; Xi: R36; R66; R67	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336; -: EUH066	10-30%
Butane	203-448-7	106-97-8	F+; R12	Flam. Gas 1: H220	5-10%
N-Butyl Acetate	204-658-1	123-86-4	R10; R66; R67	Flam. Liq. 3: H226; STOT SE 3: H336; -: EUH066	10-30%
Dimethyl Ether	204-065-8	115-10-6	F+; R12	Flam. Gas 1: H220	10-30%
Isobutane	200-857-2	75-28-5	F+; R12	Flam. Gas 1: H220	1-5%
Propane	200-827-9	74-98-6	F+; R12	Flam. Gas 1: H220	5-10%

Composition Comments: The data shown are in accordance with the latest EC Directives.

SECTION 4: First-Aid Measures

4.1. Description of first aid measures

General information:	Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.
Inhalation:	Move the exposed person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Keep the affected person warm and at rest. Get prompt medical attention.
Ingestion:	DO NOT INDUCE VOMITING! Rinse mouth thoroughly with water and give large amounts of milk or water to people not unconscious. Get medical attention if any discomfort continues.
Skin contact:	Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.
Eye contact:	Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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

General information:	The severity of the symptoms described will vary dependant of the concentration and the length of exposure.
Inhalation:	In high concentrations, vapours are anaesthetic and may cause headache, fatigue, dizziness and central nervous system effects.
Ingestion:	Due to the physical nature of this material it is unlikely that swallowing will occur.



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Skin contact: Prolonged skin contact may cause redness and irritation.
Eye contact: Irritating and may cause redness and pain.

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

No specific first aid measures noted.

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing media

Use: Powder. Dry chemicals, sand, dolomite etc. Water spray, fog or mist.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products: When heated, vapours/gases hazardous to health may be formed.

Unusual Fire & Explosion Hazards: Aerosol cans may explode in a fire.

Specific hazards: Aerosol containers can explode when heated, due to excessive pressure build-up.

5.3. Advice for fire-fighters

Special Fire Fighting Procedures: Containers close to fire should be removed or cooled with water. Use water to keep fire exposed containers cool and disperse vapours.

Protective equipment for fire-fighters:

Wear full protective clothing.

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Follow precautions for safe handling described in this safety data sheet. Wear protective gloves. Do not smoke, use open fire or other sources of ignition. Avoid inhalation of vapours and aerosol spray. Avoid contact with skin and eyes.

6.2. Environmental precautions

Not relevant considering the small amounts used.

6.3. Methods and material for containment and cleaning up

Wear necessary protective equipment. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Let evaporate. Keep out of confined spaces because of explosion risk. If leakage cannot be stopped, evacuate area.

6.4. Reference to other sections

For personal protection, see section 8. For waste disposal, see section 13.

SECTION 7: Handling and Storage

7.1. Precautions for safe handling

Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level.

7.2. Conditions for safe storage, including any incompatibilities

Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C. Store in a cool and well-ventilated place. Store in accordance with the advice of insurers and/or relevant authority.

Storage Class: Store in a dry, well ventilated, moisture free area.

7.3. Specific end use(s)

No data available.

SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

Ingredient	STD	8 hour TWA		15 min. STEL	
1-Methoxy-2-Propanol	WEL	100 ppm (Sk)	375 mg/m ³ (Sk)	150 ppm (Sk)	560 mg/m ³ (Sk)
Acetone	WEL	500 ppm	1210 mg/m ³	1500 ppm	3620 mg/m ³
Butane	WEL	600 ppm	1450 mg/m ³	750 ppm	1810 mg/m ³
N-Butyl Acetate	WEL	150 ppm	724 mg/m ³	200 ppm	966 mg/m ³
Dimethyl Ether	WEL	400 ppm	766 mg/m ³	500 ppm	958 mg/m ³
Propane		Asphyxiating	Asphyxiating	Asphyxiating	Asphyxiating

WEL = Workplace Exposure Limit.

8.2. Exposure controls

Process conditions:	No specific process measures
Engineering measures:	Provide adequate general and local exhaust ventilation.
Respiratory equipment:	Recommended filter type for the main constituent (Acetone) Filter apparatus, type AX (EN371)
Hand protection:	Use protective gloves.
Eye protection:	Use approved safety goggles or face shield.
Other Protection:	Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.
Hygiene measures:	DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.
Personal protection:	It is advisable to wear suitable eye protection (goggles)
Skin protection:	Suitable gloves
Thermal hazards:	No specific thermal hazards noted
Environmental Exposure Controls:	Due to the method of dispense, the product is likely to have a minimal environmental impact.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance:	Aerosol.
Colour:	White.
Odour:	Ketonic. Characteristic of a solvent based paint product
Solubility:	Insoluble in water
Boiling point:	The boiling point of the lowest boiling point material is minus 40 degrees Celcius (-40). This is the boiling point of the propellant (LPG - Liquefied Petroleum Gas).
Melting point (°C):	Scientifically unjustified. The resin binder in the paint film begins to soften at temperatures in excess of 80 degrees Celcius.
Vapour density (air=1):	Not determined. >1. The vapours are heavier than air.
Vapour pressure:	Propellant vapour pressure 590 - 1760 KPa
Flash point (°C):	Technically not feasible. The flash point of the lowest flash point material is minus 104 degrees Celcius (-104). This is the flash point of the propellant (LPG - Liquefied Petroleum Gas).
Flammability Limit - Lower(%):	0.8
Flammability Limit - Upper(%):	9.0

9.2. Other information

Volatile Organic Compound (VOC): Maximum 839 g/litre. Aerosol products which are used for vehicle refinishing are classed as Annex IIB subcategory (e). The maximum permitted VOC's are 840 g/l. The typical VOC content for this range of products is between 625 and 675 g/l. The VOC regulations do not apply to any other aerosol products except those which are used for vehicle refinishing.

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SECTION 10: Stability and Reactivity

10.1. Reactivity

The product may form explosive vapours/air mixtures even at normal room temperatures.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Not available.

10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition. Avoid contact with: Strong oxidising agents. Strong alkalis. Strong mineral acids. Avoid exposing aerosol containers to high temperatures or direct sunlight.

10.5. Incompatible materials

Materials To Avoid: Strong acids. Strong alkalis. Strong oxidising substances.

10.6. Hazardous decomposition products

Fire creates: Vapours/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO₂).

SECTION 11: Toxicological Information

11.1. Information on toxicological effects

Inhalation:	May cause irritation to the respiratory system. Vapours may cause headache, fatigue, dizziness and nausea. Prolonged inhalation of high concentrations may damage respiratory system. Irritating to respiratory system.
Ingestion:	May cause discomfort if swallowed. May cause stomach pain or vomiting. Gastrointestinal symptoms, including upset stomach.
Skin contact:	Prolonged or repeated exposure may cause severe irritation. Acts as a defatting agent on skin. May cause cracking of skin, and eczema. May cause allergic contact eczema. May cause sensitisation by skin contact. Irritating to skin.
Eye contact:	Irritating to eyes. May cause chemical eye burns.
Route of entry:	Inhalation. Skin and/or eye contact. Ingestion.

SECTION 12: Ecological Information

Under normal use conditions, this material is unlikely to accumulate in sufficient quantities to present any aquatic toxicity hazard.

12.1. Toxicity

Data set not currently available.

12.2. Persistence and degradability

The majority of the constituents are readily degradable.

12.3. Bioaccumulative potential

No data available on bioaccumulation.

12.4. Mobility in soil

The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces.

12.5. Results of PBT and vPvB assessment

Not Classified as PBT/vPvB by current EU criteria.



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12.6. Other adverse effects

Not known.

SECTION 13: Disposal Considerations

13.1. Waste treatment methods

Empty containers must not be burned because of explosion hazard. Dispose of waste and residues in accordance with local authority requirements. Industrial and institutional users should dispose of aerosols through a registered waste disposal company.

SECTION 14: Transport Information

General: For industrial and institutional users can transport these products as "Limited Quantities" (LQ). For the final stages of retail distribution within the UK (only), unpackaged LQ product may be transported without external packaging under the DfT road derogation 4. The user must confirm the condition of the derogation prior to road consignment.

14.1. UN number

UN No. (ADR/RID/ADN):	1950
UN No. (IMDG):	1950
UN No. (ICAO):	1950

14.2. UN proper shipping name

Shipping name: AEROSOLS

14.3. Transport hazard class(es)

ADR/RID/ADN Class:	2
ADR/RID/ADN Class Class 2:	Gases
ADR Label No.:	2.1
IMDG Class:	2.1
ICAO Class/Division:	2.1
Transport Labels:	Flammable Gas 2

14.4. Packing group

Not applicable

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant: No.

14.6. Special precautions for user

EMS:	F-D, S-U
Tunnel Restriction Code:	(D)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not relevant

SECTION 15: Regulatory Information

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

Uk Regulatory References

The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments.

Chemicals (Hazard Information & Packaging) Regulations.

Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002.

Control of Substances Hazardous to Health.

The Aerosol Dispensers Regulations 2009

Approved Code Of Practice

Classification and Labelling of Substances and Preparations Dangerous for Supply.

Guidance Notes

Workplace Exposure Limits EH40.

Introduction to Local Exhaust Ventilation HS(G)37.

CHIP for everyone HSG(108).

EU Legislation

Dangerous Preparations Directive 1999/45/EC.

Dangerous Substance Directive 67/548/EEC.

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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC)

No 1907/2006 with amendments.

The Aerosol Dispensers Directive 1975/324 EEC

15.2. Chemical Safety Assessment

The supplier has not carried out evaluation of chemical safety.

16. OTHER INFORMATION

The information contained herein relates only to the designated formulation and may not be valid if product is used in combination with other substances. The information is to the best of our knowledge, belief and understanding, true, accurate and reliable at the date of issue. However, the information may neither be exhaustive or complete, and no warranty, guarantee or liability concerning the accuracy or completeness of the information is expressed or implied. It is the user's risk and sole responsibility to verify and satisfy their own criteria and duty of care concerning the validity of the information in relation to their application of the product.

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