MARKER PAINT

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

1.1 Product identifier

Trade name: Marker Spray

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

Technical function Hand-held pre-pressurised aerosol

Application of the substance / the preparation: Line marking / spot marking

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:
Tiger Supplies Limited
Unit 3, Driberg Way, Braintree, CM7 1NB
Tel: 01376 345554
Email: sales@tiger-supplies.co.uk

1.4 Emergency telephone number(s):

NHS Direct: 111
National Poisons Information Service (NPIS): 0121 507 4123 (healthcare professionals only).
Ireland - National Poisons Information Centre: 01 837 9964 or 01 809 2566 (healthcare professionals only).

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Aerosol 1	H222-H229	Extremely flammable aerosol. Pressurised container: May burst if heated
Acute Tox. 4	H332	Harmful if inhaled
Skin Irrit. 2	H315	Causes skin irritation
Eye Irrit. 2	H319	Causes serious eye irritation
Skin Sens. 1	H317	May cause an allergic skin reaction
STOT SE 3	H335	May cause respiratory irritation.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008:
The product is classified and labelled according to the GB CLP regulation.

Hazard pictograms:

GHS02 GHS07

Signal word: Danger

Hazard-determining components of labelling:
Pigment
Rosin

Hazard statements:

H222-H229	Extremely flammable aerosol. Pressurised container: May burst if heated.
H315	Causes skin irritation
H319	Causes serious eye irritation
H317	May cause an allergic skin reaction
H332	Harmful if inhaled
H335	May cause respiratory irritation

Precautionary statements:

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 dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling
P271	Use only outdoors or in a well-ventilated area
P302+P352	IF ON SKIN: Wash with plenty of water.
P321	Specific treatment (see on this label).
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 CENTRE/doctor if you feel unwell
P362+P364	Take off contaminated clothing and wash it before reuse.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
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/regional/national/international regulations.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

Description: Mixture consisting of the following components.

Hazardous components:		
CAS: 115-10-6 EINECS: 204-065-8 Index number: 603-019-00-8	dimethyl ether Flam. Gas 1A, H220; Press. Gas (Comp.), H280	≥10-≤50%
CAS: 8050-09-7 EINECS: 232-475-7 Index number: 650-015-00-7	Rosin Skin Sens. 1, H317	≥10-≤25%
CAS: 616-38-6 EINECS: 210-478-4 Index number: 607-013-00-6	dimethyl carbonate Flam. Liq. 2, H225	≥10-≤25%
CAS: 25551-13-7 EINECS: 247-099-9	trimethylbenzene Flam. Liq. 3, H226; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2, H319	≥10-≤25%

Additional information: For the wording of the listed hazard statements refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: Immediately remove any clothing soiled by the product.

After inhalation:

Butane asphyxiation will precede any toxicological effects of the active elements. Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in the recovery position.

After skin contact:
Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.
Repeated contact may cause skin dryness and cracking.

After eye contact:
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
NEVER PUT AEROSOLS NEAR EYES/MUCOUS MEMBRANES

After swallowing: Call for a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed
No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed
No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:
CO2
Dry powder
Sand
Earth
For larger fires, use foam, water fog or spray, avoiding contamination.
Use water only to cool undamaged broth.

5.2 Special hazards arising from the substance or mixture
Pressurized aerosols should not be exposed to temperatures above 50°C. Beyond this, containers may explode and the resulting flammable mixture will burn to produce CO2.

5.3 Advice for firefighters

Protective equipment:
Wear a positive pressure self-contained breathing apparatus.
Wear fully protective suit.

Additional information: Avoid contamination of water courses when damaged stock is leaking.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Keep away from ignition sources. Ensure adequate ventilation.
Use personal protective equipment. Keep unprotected persons away.

6.2 Environmental precautions

Do not allow product to reach sewage system or any water course.

6.3 Methods and material for containment and cleaning up
In small quantities, any liquid should be absorbed in a suitable medium, such as sand, and disposed of safely. The residue should be washed off with soapy water, although staining is to be expected.
Ensure adequate ventilation.
Dispose contaminated material as waste according to section 13.

6.4 Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment. See Section 13 for disposal information.
See Section 13 for disposal information

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Information about fire - and explosion protection:
Do not spray onto a naked flame or any incandescent material. Keep ignition sources away - Do not smoke.
Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

7.2 Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles:
Observe official regulations on storing packagings with pressurised containers.

Information about storage in one common storage facility: Avoid contamination with other products.

Further information about storage conditions:
Protect from heat and direct sunlight.
Protect from humidity and water.
Store in cool, dry conditions in well sealed receptacles.
Containers will not last indefinitely even when stored in a cool, dry place, they should be inspected periodically during long term storage.
Keep container tightly closed.

7.3 Specific end use(s):

No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:	
115-10-6 dimethyl ether	
WEL	Short-term value: 958 mg/m³, 500 ppm Long-term value: 766 mg/m³, 400 ppm
8050-09-7 Rosin	
WEL	Short-term value: 0.15 mg/m³ Long-term value: 0.05 mg/m³ Sen

Additional information:

The lists valid during the making were used as basis.

8.2 Exposure controls

Individual protection measures, such as personal protective equipment
General protective and hygienic measures:
The usual precautionary measures are to be adhered to when handling chemicals.
Ensure good ventilation/exhaustion at the workplace.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Avoid contact with the eyes and skin.

Respiratory protection:
Use organic/inorganic vapor filters. Vapors may cause drowsiness or dizziness.
In case of brief exposure use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
Use suitable respiratory protective device in case of insufficient ventilation.

Hand protection

Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/the preparation/the chemical mixture.

Select the glove material based on a consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves:
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material:
The exact break through time must be determined by the manufacturer of the protective gloves.

Eye/face protection

Safety glasses with side-shields (EN 166).

Body protection: Protective work clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Physical state	Aerosol.
Colour:	Transparent.
Odour:	
Odour threshold:	Not determined.
Melting point/freezing point:	<-20 °C
Boiling point or initial boiling point and boiling range	>60 °C
Flammability	Not determined.

Lower and upper explosion limit

Lower:	Not determined.
Upper:	Not determined.
Flash point:	0 °C
Auto-ignition temperature:	Not determined.
Decomposition temperature:	Not determined.
pH	Not determined.
VOC (EC):	≤410 mg/L
Dynamic:	Not determined.

Solubility

Water:	Insoluble.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure at 20 °C:	5,200 hPa (115-10-6 dimethyl ether)

Density and/or relative density

Density:	Not determined.
Relative density at 20 °C	0.97 kg/m3
Bulk density:	1 kg/m³
Vapour density	Not determined.

9.2 Other information

Appearance:	
Form:	Aerosol.
Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures is possible.
Solids content:	10-17 %
Softening point/range	
Oxidising properties	Not determined.
Evaporation rate	Not applicable.

Information with regard to physical hazard classes

Explosives	Not applicable.
Flammable gases	Not applicable.
Aerosols	Extremely flammable aerosol. Pressurised container: May burst if heated.
Oxidising gases	Not applicable.
Gases under pressure	Not applicable.
Flammable liquids	Not applicable.
Flammable solids	Not applicable.
Self-reactive substances and mixtures	Not applicable.
Pyrophoric liquids	Not applicable.
Pyrophoric solids	Not applicable.
Self-heating substances and mixtures	Not applicable.

Substances and mixtures, which emit flammable gases in contact with water Not applicable.

Oxidising liquids	Not applicable.
Oxidising solids	Not applicable.
Organic peroxides	Not applicable.
Corrosive to metals	Not applicable.
Desensitised explosives	Not applicable.

SECTION 10: Stability and reactivity

10.1 Reactivity
No further relevant information available.

10.2 Chemical stability
The container is inherently stable under the prescribed conditions for a reasonable period of time (at least 24-25 months).

Thermal decomposition / conditions to be avoided:
No decomposition if used and stored according to specifications.

10.3 Possibility of hazardous reactions
Container corrosion can occur over time and damaged containers should be disposed of before a hazard arises.

10.4 Conditions to avoid
Keep away from sources of ignition.
Avoid high temperatures.
Avoid contact with acids
Protect against moisture.
Keep away from humidity and acids

10.5 Incompatible materials
No further relevant information available.

10.6 Hazardous decomposition products
No further relevant information available.

Additional information: Avoid sudden shocks, which can damage the integrity of the container.

SECTION 11: Toxicological information

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

Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values:		
115-10-6 dimethyl ether		
Inhalative	LC50/4h	308 mg/L (Rat)
616-38-6 dimethyl carbonate		
Oral	LD50	13,000 mg/kg (Rat)
Dermal	LD50	>5,000 mg/kg (rabbit)

Skin corrosion/irritation:	Causes skin irritation.
Serious eye damage/irritation:	Causes serious eye irritation.
Respiratory or skin sensitisation:	May cause an allergic skin reaction.
Germ cell mutagenicity:	Based on available data, the classification criteria are not met.
Carcinogenicity:	Based on available data, the classification criteria are not met.
Reproductive toxicity:	Based on available data, the classification criteria are not met.
STOT-single exposure:	Based on available data, the classification criteria are not met.
STOT-repeated exposure:	Based on available data, the classification criteria are not met.
Aspiration hazard:	Based on available data, the classification criteria are not met.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties
None of the ingredients are listed.

11.2.2 Other information

Deliberate inhalation may cause severe pulmonary and breathing difficulty, dizziness, drowsiness (narcosis) and headaches. This will constitute abuse.
Skin and eye irritation may result from continued exposure to vapors when used in areas of poor ventilation, or when working in close proximity to the spray for prolonged periods, and suitable steps should to avoid such conditions.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:	
115-10-6 dimethyl ether	
LC50	13,000 mg/L (Fish)
NOEC/48h	>4,000 mg/L (Fish)

12.2 Persistence and degradability

The degradation will be relatively slow but eventually almost complete.

12.3 Bioaccumulative potential

Accumulation is unlikely once physical failure begins.

12.4 Mobility in soil

Mobility will be very slow.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.
vPvB: Not applicable.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

Additional environmental information:
Short and long term effects should not be considered significant. Very short term damage to aquatic and soil organisms may occur with a large spill (over 1000 containers), although this should disperse quickly (especially if absorbent material is used).
The product will evaporate quickly in the air. A colored liquid, easily absorbed, will evaporate and leave a solid. The solid will present no other significant hazard, with no hazard resulting from degradation.

General notes:
Water hazard class 1 (German Regulation) (Self-assessment): Slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation:
Disposal must be made in accordance with official regulations. Do not puncture or incinerate/burn even after use.
Do not allow product to reach sewage system.

Uncleaned packaging:
Recommendation:
Disposal must be made in accordance with official regulations.
Packaging that may not be cleansed must be disposed of in the same manner as the product.

SECTION 14: Transport information

14.1 UN number or ID number

ADR, IMDG, IATA UN1950

14.2 UN proper shipping name

ADR 1950 AEROSOLS
IMDG AEROSOLS
IATA AEROSOLS, flammable

14.3 Transport hazard class(es)

ADR

Class 2 5F Gases.
Label 2.1

IMDG, IATA

Class 2.1 Gases.
Label 2.1

14.4 Packing group
ADR, IMDG, IATA Not applicable.

14.5 Environmental hazards
Not applicable.

14.6 Special precautions for user Warning: Gases.

Hazard identification number (Kemler code): -
EMS Number: F-D,S-U
Stowage Code SW1 Protected from sources of heat.
SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.
Segregation Code SG69 For AEROSOLS with a maximum capacity of 1 litre:
Segregation as for class 9. Stow "separated from" class 1 except for division 1.4.
For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2.
For WASTE AEROSOLS:
Segregation as for the appropriate subdivision of class 2.

14.7 Maritime transport in bulk according to IMO instruments
Not applicable.

Transport/Additional information:
ADR
Excepted quantities (EQ) Code: E0
Not permitted as Excepted Quantity
Tunnel restriction code:

IMDG
Limited quantities (LQ) 1L
Excepted quantities (EQ) Code: E0
Not permitted as Excepted Quantity

SECTION 15: Regulatory information

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

Directive 2012/18/EU
Named dangerous substances - ANNEX I
None of the ingredients are listed
Seveso category
P3a FLAMMABLE AEROSOLS

Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t
Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II
None of the ingredients are listed.

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensin under Article 5(3))
None of the ingredients are listed.
Annex II - REPORTABLE EXPLOSIVES PRECURSORS
None of the ingredients are listed.
Regulation (EC) No 273/2004 on drug precursors
None of the ingredients are listed.
Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors
None of the ingredients are listed.

15.2 Chemical safety assessment A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant statements

H220 Extremely flammable gas.
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H280 Contains gas under pressure; may explode if heated.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H302 Harmful if swallowed
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.

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Version 3
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Abbreviations and acronyms:

WEL: Workplace Exposure Limits
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Flam. Gas 1A: Flammable gases - Category 1A
Aerosol 1: Aerosols - Category 1
Press. Gas (Comp.): Gases under pressure - Compressed gas
Flam. Liq. 2: Flammable liquids - Category 2
Flam. Liq. 3: Flammable liquids - Category 3
Acute Tox. 4: Acute toxicity - Category 4
Skin Irrit. 2: Skin corrosion/irritation - Category 2
Eye Irrit. 2: Serious eye damage/eye irritation - Category 2
Skin Sens. 1: Skin sensitisation - Category 1
STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

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