

**1. Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifier**

**Trade name:** LINE MARKER BLACK

**Article number:** LMBK

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

**1.3 Details of the supplier of the safety data sheet**

**Manufacturer/Supplier:** Tygris Industrial  
Unit 31  
Kyle Road Industrial Estate  
Irvine  
Ayshire  
KA12 8LE  
Tel +44 (0) 1294 311 066  
Fax +44 (0) 1294 277 115  
Email [technical@tygrisindustrial.com](mailto:technical@tygrisindustrial.com)

**Further information obtainable from:** Technical Department

**1.4 Emergency telephone number:** Tel +44 (0) 1294 311 066

## 2. Hazards identification

### 2.1. Classification of the substance or mixture

<b>Classification (EC 1272/2008)</b>	Physical and Chemical Hazards	Flam. Aerosol 1: H222; H229
	Human health	STOT SE 3 - H336; Eye Irrit. 2: H319; EUH208; Lact.: H362; Skin Irrit. 2: H315
	Environment	Aquatic Chronic 2 - H411

### Classification (1999/45/EEC)

**Most important adverse effects**      Contains isodecyloxpropylamine acetate. May produce an allergic reaction. Extremely flammable aerosol. Pressurised container: May burst if heated. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. May cause harm to breast-fed children. Toxic to aquatic life with long lasting effects.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

### 2.2. Label elements

**Label In Accordance With (EC) No. 1272/2008**



<b>Signal Word</b>	Danger
<b>Hazard Statements</b>	EUH208: Contains isodecyloxpropylamine acetate. May produce an allergic reaction. H222: Extremely flammable aerosol. H229: Pressurised container: May burst if heated H315: Causes skin irritation. H319: Causes serious eye irritation. H336: May cause drowsiness or dizziness. H362: May cause harm to breast-fed children. H411: Toxic to aquatic life with long lasting effects.
<b>Precautionary Statements</b>	P102: Keep out of reach of children. P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P211: Do not spray on an open flame or other ignition source. P251: Pressurized container: Do not pierce or burn, even after use. P260: Do not breathe dust/fumes/gas/mist/vapours/spray. P263: Avoid contact during pregnancy/while nursing. P280: Wear protective gloves/protective clothing/eye protection/face protection. P410+412: Protect from sunlight. Do not expose to temperatures exceeding 50 °C.
<b>Supplementary Precautionary Statements</b>	
<b>Supplemental label information</b>	
<b>2.3. Other hazards</b>	
<b>Other hazards</b>	In use, may form flammable / explosive vapour-air mixture.
<b>PBT</b>	This product is not identified as a PBT/vPvB substance.

**3. Composition/information on ingredients**
**3.2. Mixtures**

ACETONE Index No. CAS-No.: 67-64-1 Classification (EC 1272/2008) Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336; -: EUH066	30-50% REACH Registration No. EINECS: 200-662-2 Classification (67/548/EEC)
PROPANE Index No. CAS-No.: 74-98-6 Classification (EC 1272/2008) Flam. Gas 1 - H220 Press. Gas: H280	10-30% REACH Registration No. EINECS: 200-827-9 Classification (67/548/EEC)
SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC.; LOW BOILING POINT NAPHTHA Index No. CAS-No.: 64742-95-6 Classification (EC 1272/2008) -	1-10% REACH Registration No. EINECS: 265-199-0 Classification (67/548/EEC)
BUTANE Index No. CAS-No.: 106-97-8 Classification (EC 1272/2008) Flam. Gas 1 - H220 Press. Gas: H280	1-10% REACH Registration No. EINECS: 203-448-7 Classification (67/548/EEC)
2-BUTOXYETHANOL Index No. CAS-No.: 111-76-2 Classification (EC 1272/2008) Acute Tox. 4: H332; Acute Tox. 4: H312; Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Irrit. 2: H315	1-10% REACH Registration No. EINECS: 203-905-0 Classification (67/548/EEC)
1,2,4-TRIMETHYLBENZENE Index No. CAS-No.: 95-63-6 Classification (EC 1272/2008) Flam. Liq. 3: H226; Acute Tox. 4: H332; Eye Irrit. 2: H319; STOT SE 3: H335; Skin Irrit. 2: H315; Aquatic Chronic 2: H411	1-10% REACH Registration No. EINECS: 202-436-9 Classification (67/548/EEC)

1-METHOXY-2-PROPANOL Index No. CAS-No.: 107-98-2 Classification (EC 1272/2008) Flam. Liq. 3: H226; STOT SE 3: H336	1-10% REACH Registration No. EINECS: 203-539-1 Classification (67/548/EEC)
ISOBUTANE Index No. CAS-No.: 75-28-5 Classification (EC 1272/2008) Flam. Gas 1: H220; Press. Gas: H280	1-10% REACH Registration No. EINECS: 200-857-2 Classification (67/548/EEC)
ALKANES, C14-17, CHLORO Index No. CAS-No.: 85535-85-9 Classification (EC 1272/2008) Lact.: H362; Aquatic Chronic 1: H410; Aquatic Acute 1: H400	1-10% REACH Registration No. EINECS: 287-477-0 Classification (67/548/EEC)
ISODECYLOXPROPYLAMINE ACETATE Index No. CAS-No.: 28701-67-9 Classification (EC 1272/2008) Acute Tox. 4: H302; Skin Corr. 1B: H314; STOT SE 3: H335; Aquatic Chronic 1: H410; Skin Sens. 1: H317	0.1-1% REACH Registration No. EINECS: - Classification (67/548/EEC)

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16

## 4. First aid measures

### 4.1. Description of first aid measures

#### General information

<b>Inhalation</b>	Move to fresh air in case of accidental inhalation of vapours.
<b>Ingestion</b>	Do not induce vomiting. Consult a doctor.
<b>Skin contact</b>	Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin.
<b>Eye contact</b>	Bathe the eye with running water for 15 minutes. Consult a doctor.

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

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

## 5. Firefighting measures

### 5.1 Extinguishing Media

**Extinguishing media** Suitable extinguishing media for the surrounding fire should be used.

### 5.2. Special hazards arising from the substance or mixture

**Exposure hazards** Extremely flammable. In combustion emits toxic fumes. Forms explosive air-vapour mixture. Vapour may travel considerable distance to source of ignition and flash back.

### 5.3. Advice for firefighters

**Special Fire Fighting Procedures** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

## 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** Refer to section 8 of SDS for personal protection details. Eliminate all sources of ignition. If outside do not approach from downwind.

### 6.2. Environmental precautions

Do not discharge into drains or rivers. Contain the spillage using bunding.

### 6.3. Methods and material for containment and cleaning up

Absorb into dry earth or sand. Do not use equipment in clean-up procedure which may produce sparks. Clean-up should be dealt with only by qualified personnel familiar with the specific substance.

### 6.4. Reference to other sections

Refer to section 8 of SDS.

## 7. Handling and storage

### 7.1 Precautions for safe handling

**Handling requirements** Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Smoking is forbidden. Use non-sparking tools.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage conditions** Store in cool, well ventilated area. Keep container tightly closed. Keep away from direct sunlight. Keep away from sources of ignition.

**Suitable packaging** Must only be kept in original packaging.

### 7.3. Specific end use(s)

No data available.

## 8. Exposure controls/personal protection

### 8.1. Control parameters

Name	STD	TWA - 8 Hrs		STEL - 15 Min	
ACETONE	WEL		1210 mg/m <sup>3</sup>		3620 mg/m <sup>3</sup>
PROPANE	WEL		1800 mg/m <sup>3</sup>		7200 mg/m <sup>3</sup>
BUTANE	WEL		1450 mg/m <sup>3</sup>		1810 mg/m <sup>3</sup>
1-METHOXY-2-PROPANOL	WEL		375 mg/m <sup>3</sup>		560 mg/m <sup>3</sup>
2-BUTOXYETHANOL	WEL	25 ppm		50 ppm	
1,2,4-TRIMETHYLBENZENE	WEL		125 mg/m <sup>3</sup>		
ISOBUTANE	WEL		2400 mg/m <sup>3</sup>		9600 mg/m <sup>3</sup>

WEL = Workplace Exposure Limits

### 8.2. Exposure controls

#### Protective equipment



#### Engineering measures

Ensure there is sufficient ventilation of the area. Ensure lighting and electrical equipment are not a source of ignition.

#### Respiratory equipment

Respiratory protection not required.

#### Hand protection

Chemically resistant gloves.

#### Eye protection

Safety glasses. Ensure eye bath is to hand.

#### Other Protection

Protective clothing.

#### Environmental

Prevent from entering in public sewers or the immediate environment.

## 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance	Aerosol
Colour	Black
Odour	Characteristic.
Flash point°C	-60

### 9.2. Other information

No data available

## **10. Stability and reactivity**

### **10.1. Reactivity**

Stable under recommended transport or storage conditions.

### **10.2. Chemical stability**

Stable under normal conditions. Stable at room temperature.

### **10.3. Possibility of hazardous reactions**

Hazardous reactions will not occur under normal transport or storage conditions.

### **10.4. Conditions to avoid**

Direct sunlight. Heat. Hot surfaces. Sources of ignition. Flames.

### **10.5. Incompatible materials**

Strong oxidising agents. Strong acids.

### **10.6. Hazardous decomposition products**

In combustion emits toxic fumes.

## 11. Toxicological information

### 11.1. Information on toxicological effects

#### Hazardous ingredients

##### ACETONE

IVN	RAT	LD50	5500 mg/kg
ORL	MUS	LD50	3000 mg/kg
ORL	RAT	LD50	5800 mg/kg

##### 1-METHOXY-2-PROPANOL

IVN	RAT	LD50	4200 mg/kg
ORL	MUS	LD50	11700 mg/kg
ORL	RAT	LDLO	3739 mg/kg

##### 2-BUTOXYETHANOL

IVN	RAT	LD50	307 mg/kg
ORL	MUS	LD50	1230 mg/kg
ORL	RAT	LD50	470 mg/kg

##### 1,2,4-TRIMETHYLBENZENE

IPR	RAT	LDLO	1752 mg/kg
ORL	RAT	LD50	5 gm/kg

Relevant effects for mixture:

Effect	Route	Basis
Irritation	OPT	Hazardous: calculated

#### Symptoms / routes of exposure

**Inhalation** No data available.

**Ingestion** No data available.

**Skin contact** No data available.

**Eye contact** No data available.

#### Route of entry

## 12. Ecological information

### 12.1. Toxicity

ACETONE		
BLUEGILL ( <i>Lepomis macrochirus</i> )	LC50	8300 mg/l

### 12.2. Persistence and degradability

### 12.3. Bioaccumulative potential

### 12.4. Mobility in soil

### 12.5. Results of PBT and vPvB assessment

### 12.6. Other adverse effects

Toxic to aquatic organisms.



### 13. Disposal considerations

**13.1. Waste treatment methods**                      Transfer to a suitable container and arrange for collection by specialised disposal company.

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

### 14. Transport information

#### 14.1. UN number

UN No. (ADR/RID/ADN)                      1950

UN No. (IMDG)                                      1950

UN No. (ICAO)                                      1950

#### 14.2. UN proper shipping name

Proper 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



#### 14.4. Packing group

Packing group                                      Not applicable.

#### 14.5. Environmental hazards

Environmentally hazardous: Yes                      Marine pollutant: No

#### 14.6. Special precautions for user

##### EMS

Tunnel Restriction Code                      (D)

Transport category                              2

## 15. Regulatory information

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

Not applicable

### 15.2. Chemical safety assessment

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

## 16. Other information

**Phrases used in s.2 and s.3**

- EUH066: Repeated exposure may cause skin dryness or cracking.
- EUH208: Contains <name of sensitising substance>. May produce an allergic reaction.
- H220: Extremely flammable gas.
- H222: Extremely flammable aerosol.
- H225: Highly flammable liquid and vapour.
- H226: Flammable liquid and vapour.
- H229: Pressurised container: May burst if heated
- H302: Harmful if swallowed.
- H304: May be fatal if swallowed and enters airways.
- H312: Harmful in contact with skin.
- H314: Causes severe skin burns and eye damage.
- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H319: Causes serious eye irritation.
- H332: Harmful if inhaled.
- H335: May cause respiratory irritation.
- H336: May cause drowsiness or dizziness.
- H362: May cause harm to breast-fed children.
- H410: Very toxic to aquatic life with long lasting effects.
- H411: Toxic to aquatic life with long lasting effects.

### DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.