

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

1.1 Product identifier

Trade name: **LINE MARKER ORANGE**

Article number: **LMOE**

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

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

Classification (EC 1272/2008)	Physical and Chemical Hazards	Flam. Aerosol 1: H222; H229
	Human health	STOT SE 3 - H336; Eye Irrit. 2: H319; Lact.: H362; EUH208
	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 serious eye irritation. May cause drowsiness or dizziness. May cause harm to breast-fed children. Toxic to aquatic life with long lasting effects.
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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**



Signal Word Danger

Hazard Statements EUH208: Contains isodecyloxpropylamine acetate. May produce an allergic reaction.
H222: Extremely flammable aerosol.
H229: Pressurised container: May burst if heated
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.

Precautionary Statements 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.

Supplemental label information

2.3. Other hazards

Other hazards In use, may form flammable / explosive vapour-air mixture.

PBT 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) Flam. Liq. 3: H226; Asp. Tox. 1: H304; STOT SE 3: H335; Aquatic Chronic 2: H411; STOT SE 3: H336; EUH066	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)
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)

N-BUTYL ACETATE Index No. CAS-No.: 204-658-1 Classification (EC 1272/2008) Flam. Liq. 3: H226; STOT SE 3: H336; EUH066	1-10% REACH Registration No. EINECS: 123-86-4 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)
ETHYL ACETATE Index No. CAS-No.: 141-78-6 Classification (EC 1272/2008) Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336; EUH066	1-10% REACH Registration No. EINECS: 205-500-4 Classification (67/548/EEC)
MESITYLENE Index No. CAS-No.: 108-67-8 Classification (EC 1272/2008) Flam. Liq. 3: H226; STOT SE 3: H335; Aquatic Chronic 2: H411	1-10% REACH Registration No. EINECS: 203-604-4 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

Inhalation	Move to fresh air in case of accidental inhalation of vapours.
Ingestion	Do not induce vomiting. Consult a doctor.
Skin contact	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.
Eye contact	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 ³		3620 mg/m ³
PROPANE	WEL		1800 mg/m ³		7200 mg/m ³
BUTANE	WEL		1450 mg/m ³		1810 mg/m ³
1,2,4-TRIMETHYLBENZENE	WEL		125 mg/m ³		-
N-BUTYL ACETATE	WEL		724 mg/m ³		966 mg/m ³
ISOBUTANE	WEL		2400 mg/m ³		9600 mg/m ³
ETHYL ACETATE	WEL	200 ppm		400 ppm	
MESITYLENE	WEL	25 ppm		-	

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	Orange
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

1,2,4-TRIMETHYLBENZENE

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

N-BUTYL ACETATE

ORL	MUS	LD50	6 gm/kg
ORL	RAT	LD50	10768 mg/kg

ETHYL ACETATE

ORL	MUS	LD50	4100 mg/kg
ORL	RAT	LD50	5620 mg/kg
SCU	RAT	LDLO	5 gm/kg

MESITYLENE

IPR	GPG	LDLO	1303 mg/kg
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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 (Lepomis macrochirus)	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	<p>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. 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.</p>
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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.