



# SAFETY DATA SHEET

## INDUSTRIAL DENATURED ALCOHOL 95%

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

PRODUCT NAME INDUSTRIAL DENATURED ALCOHOL 95%  
PRODUCT NO. RM128  
SYNONYMS, TRADE NAMES [FORMERLY INDUSTRIAL METHYLATED SPIRIT]  
SUPPLIER J M Loveridge Limited  
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### 2 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
ETHANOL	200-578-6	64-17-5	60-100%	F;R11
METHANOL	200-659-6	67-56-1	1-5%	F;R11 T;R23/24/25,R39/23/24/25

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

### 3 HAZARDS IDENTIFICATION

Highly flammable. Harmful by inhalation, in contact with skin and if swallowed. Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.

CLASSIFICATION Xn;R20/21/22, R68/20/21/22. F;R11.

### 4 FIRST-AID MEASURES

#### GENERAL INFORMATION

IN ALL CASES OF DOUBT OR WHEN SYMPTOMS PERSIST, ALWAYS SEEK MEDICAL ATTENTION

#### INHALATION

Move affected person to fresh air. If recovery not rapid, seek medical attention. If breathing stops, provide artificial respiration. Keep affected person warm and at rest.

#### INGESTION

DO NOT INDUCE VOMITING. In case of spontaneous vomiting, be sure that vomit can freely drain because of danger of suffocation. Only when conscious, rinse mouth with plenty of water and give plenty of water to drink - (approx 500ml). Keep patient at rest and obtain medical attention.

#### SKIN CONTACT

Remove contaminated clothing. Wash affected area with plenty of soap and water. If irritation persists, seek medical attention.

#### EYE CONTACT

Rinse immediately with plenty of water for at least 5 minutes while lifting the eye lids. Seek medical attention. Continue to rinse.

### 5 FIRE-FIGHTING MEASURES

#### EXTINGUISHING MEDIA

Dry chemicals, sand, dolomite etc. Foam, carbon dioxide or dry powder.

#### SPECIAL FIRE FIGHTING PROCEDURES

Use gentle application of water spray to keep exposed containers cool or to dissipate vapour. Take measures to retain water used for extinguishing. Do not release contaminated water into drains, soil and surface water. Dispose of contaminated water and soil according to local regulations.

#### UNUSUAL FIRE & EXPLOSION HAZARDS

May explode when heated or when exposed to flames or sparks. Vapour may travel considerable distance to source of ignition and flash back.

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## SPECIFIC HAZARDS

Burning will produce oxides of carbon.

## PROTECTIVE MEASURES IN FIRE

Fire fighters should wear self-contained breathing apparatus.

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## 6 ACCIDENTAL RELEASE MEASURES

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### PERSONAL PRECAUTIONS

Do not breathe vapour or fumes. Avoid direct contact with skin, eyes and clothing. Wear appropriate protective clothing. Eliminate all sources of ignition.

### ENVIRONMENTAL PRECAUTIONS

Prevent contamination of soil, drains and surface water.

### SPILL CLEAN UP METHODS

Take-up spillage with absorbent, inert material and place in a suitable and closable labelled container for recovery or disposal. Wash the area clean with water and detergent, observing environmental requirements. Absorb small quantities with paper towels or other inert material and allow to evaporate in safe place (fume hood/cupboard). Do not allow material to enter confined spaces such as sewers because of explosion risk. Ventilate residual vapour or fumes.

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## 7 HANDLING AND STORAGE

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### USAGE PRECAUTIONS

**HANDLING** - Product should be used in accordance with good industrial principles for handling and storing of hazardous chemicals. Spillages will create a fire hazard. Avoid vapour formation and ignition sources. Ensure good ventilation and local exhaust extraction in work place. Exhaust engineering controls should be intrinsically safe - [to explosion/flameproof standard]. Take precautions to eliminate build-up of static charge.

### STORAGE PRECAUTIONS

Store in a cool, dry, well ventilated place, in securely closed original container. Avoid direct sunlight.

### STORAGE CLASS

Flammable liquid storage.

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## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

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Name	Std	LT - ppm	LT - mg/m3	ST - ppm	ST - mg/m3
METHANOL	WEL	200 ppm(Sk)	266 mg/m3(Sk)	250 ppm(Sk)	333 mg/m3(Sk)
ETHANOL	WEL	1000 ppm	1920 mg/m3		

### INGREDIENT COMMENTS

Sk - can be absorbed by skin contact.

### PROTECTIVE EQUIPMENT



### ENGINEERING MEASURES

Use engineering controls to maintain workplace exposure to hazardous substances below recommended occupational exposure limits.

### RESPIRATORY EQUIPMENT

In case of insufficient ventilation, for short periods of work, use a suitable respiratory protective equipment fitted with an appropriate organic vapour filter cartridge.

### HAND PROTECTION

Use impervious gloves made of nitrile rubber or PVC.

### EYE PROTECTION

Approved chemical safety goggles or face protection.

### OTHER PROTECTION

Wear personal protective equipment appropriate to the quantity of material handled.

### HYGIENE MEASURES

SKIN PROTECTION - apply barrier cream to hands and exposed skin.

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## 9 PHYSICAL AND CHEMICAL PROPERTIES

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APPEARANCE	Clear colourless, mobile liquid with characteristic alcoholic odour.		
SOLUBILITY	Miscible with water in all proportions.		
BOILING POINT (°C)	77 - 78°C	RELATIVE DENSITY	~ 0.79 g/cm <sup>3</sup> @ 20°C
VAPOUR PRESSURE	5.81[ethanol] kPa @ 20°C	EVAPORATION RATE	~3.4 BuAc=1
VOLATILE BY VOL. (%)	~100	ODOUR THRESHOLD, LOWER	10 ppm
FLASH POINT (°C)	~ 13°C - CC (Closed cup).	FLAMMABILITY LIMIT - LOWER(%)	3.5 [ethanol]
FLAMMABILITY LIMIT - UPPER(%)	19 [ethanol]	PARTITION COEFFICIENT (N-Octanol/Water)	0.32 [ethanol]

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## 10 STABILITY AND REACTIVITY

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### STABILITY

Stable under normal conditions of use.

### CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition. Avoid vapour formation. Prevent accumulation of static electricity.

### MATERIALS TO AVOID

Oxidising agents. Sulphuric acid, Nitric acid.

### HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition or burning will release oxides of carbon.

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## 11 TOXICOLOGICAL INFORMATION

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### GENERAL INFORMATION

Intoxicating if inhaled or ingested.

### INHALATION

May cause transient irritation to the respiratory system. Exposure to high vapour concentration may cause central nervous system depression or systemic effects similar to those of ingestion.

### INGESTION

May cause nausea, vomiting, dizziness and depression of CNS.

### SKIN CONTACT

Repeated or prolonged contact may cause mild irritation and / or drying of skin. Liquid may be absorbed through skin, but not in toxicologically significant amounts unless contact exposure is extensive and over prolonged period.

### EYE CONTACT

May cause transient eye irritation or damage.

### OTHER HEALTH EFFECTS

Repeated ingestion may lead to temporary or permanent blindness.

### ROUTE OF ENTRY

Inhalation. Skin absorption.

### MEDICAL CONSIDERATIONS

Avoid handling during pregnancy.

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## 12 ECOLOGICAL INFORMATION

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### ECOTOXICITY

Regarded as having low toxicity to aquatic organisms.

LC 50, 96 Hrs, FISH mg/l                      15000mg/l [fathead minnow] - for ethanol component only

EC 50, 48 Hrs, DAPHNIA, mg/l              9000

### MOBILITY

Water soluble, will partition to aqueous phase. Lost within short period through evaporation and dissolution. Poorly absorbed onto soils or sediments.

### BIOACCUMULATION

Low bioaccumulation potential.

### DEGRADABILITY

Readily biodegradable. For Ethanol component BOD<sub>5</sub> = 37.74% of ThOD;  
BOD<sub>20</sub> = 75-84% of ThOD.

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## 13 DISPOSAL CONSIDERATIONS

### DISPOSAL METHODS

This material and/or its container must be disposed of as hazardous waste according to Hazardous Waste Regulations [2005], or according to local regulations, in compliance with Duty of Care Regulations.

### WASTE CLASS

WASTE CODE:0705\*\* HAZARDOUS PROPERTY: H3-A, H5

## 14 TRANSPORT INFORMATION



PROPER SHIPPING NAME	ETHANOL SOLUTION		
UN NO. ROAD	1170	ADR CLASS NO.	F1
ADR CLASS	3	ADR PACK GROUP	II
HAZARD NO. (ADR)	33	ADR LABEL NO.	3

## 15 REGULATORY INFORMATION

### LABELLING



Highly Flammable



Harmful

### CONTAINS

METHANOL

### RISK PHRASES

R11	Highly flammable.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R68/20/21/22	Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.

### SAFETY PHRASES

S9	Keep container in a well-ventilated place.
S16	Keep away from sources of ignition - No smoking.
S36/37	Wear suitable protective clothing and gloves.
S46	If swallowed, seek medical advice immediately and show this container or label.

### UK REGULATORY REFERENCES

Chemicals [Hazard Information and Packaging for Supply] Regulations 2002 [as amended].

## 16 OTHER INFORMATION

### INFORMATION SOURCES

This product has been classified in accordance with CHIP3 Regulations; (CHIP 2002 as amended).

### REVISION COMMENTS

Edition 06; Revision to Sect. 8; revised to Workplace Exposure Limits [WEL]

### ISSUED BY

MK

SDS NO. 10066

DATE 28/05/06

# INDUSTRIAL DENATURED ALCOHOL 95%

## RISK PHRASES IN FULL

R11	Highly flammable.
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

## DISCLAIMER

The foregoing data has been compiled for safety information only and does not form part of any selling specification. Information contained in this SDS is to the best of JML's knowledge correct at the time of publication. However, no guarantee is given to its accuracy, reliability or completeness and the information may not be valid if the product is used in combination with other material or process. It is the responsibility of the user to ensure that the product which they have selected is entirely suitable for their purpose under their conditions of use and in compliance with current regulatory requirements.