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ReAgent

METHYLATED SPIRIT 99 V/V 74 OP LRG MSDS

According to Regulation (EC) No 1907/2006

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

PRODUCT NAME METHYLATED SPIRIT 99 V/V 74 OP LRG
 SUPPLIER Reagent Chemical Services
 18 Aston Fields Road
 Whitehouse Industrial Estate
 Runcorn
 Cheshire WA7 3DL
 T: 01928 716903
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 PRODUCT NO. 1485
 APPLICATION General chemical reagent
 EMERGENCY TELEPHONE Emergency Telephone : +44 (0) 1928 716903 Between 08.30 - 17.00

2 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 (1999/45) Xn;R20/21/22, R68/20/21/22. F;R11.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification (67/548)
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

4 FIRST-AID MEASURES

GENERAL INFORMATION

CAUTION! First aid personnel must be aware of own risk during rescue! First aid personnel must protect themselves with all necessary personal protective equipment during the assistance of casualties. When breathing is difficult, properly trained personnel may assist the casualty by administering oxygen. If casualty needs to be resuscitated avoid mouth to mouth contact, use a mechanical device such as a bag and mask to provide artificial respiration. Place unconscious person on the side in the recovery position and ensure breathing can take place. Never give anything by mouth to an unconscious person. If medical attention is required take this information sheet with the casualty.

INHALATION

Remove victim immediately from source of exposure. Provide rest, warmth and fresh air. Get medical attention if any discomfort continues.

INGESTION

Do not induce vomiting. Immediately rinse mouth and drink plenty of water. Get medical attention immediately!

SKIN CONTACT

Immediately remove contaminated clothing and wash before re-use. Wash the skin immediately with soap and water. In serious cases or if discomfort continues obtain medical attention.

EYE CONTACT

Promptly wash eyes with plenty of water or eye wash solution while lifting the eyelids. If possible remove any contact lenses and continue to wash. Get medical attention immediately.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Water spray, dry powder or vaporising liquids

METHYLATED SPIRIT 99 V/V 74 OP LRG**UNUSUAL FIRE & EXPLOSION HAZARDS**

HIGHLY FLAMMABLE! Vapours are heavier than air and may spread near ground to sources of ignition. Forms explosive mixtures with air.

PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6 ACCIDENTAL RELEASE MEASURES**PERSONAL PRECAUTIONS**

Wear protective clothing as described in Section 8 of this safety data sheet.

SPILL CLEAN UP METHODS

Remove sources of ignition. Small Spillages: Absorb with inert, non-combustible material. Large Spillages: Dam and absorb spillages with sand, earth or other non-combustible material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Wash spillage site well with water and detergent, be aware of the potential for surfaces to become slippery. Ventilate well. After spillages in enclosed areas test atmosphere before using any potential ignition sources.

7 HANDLING AND STORAGE**USAGE PRECAUTIONS**

Static electricity and formation of sparks must be prevented. Eliminate all sources of ignition. Avoid inhalation of vapours/spray and contact with skin and eyes.

STORAGE PRECAUTIONS

Flammable/combustible - Keep away from oxidisers, heat and flames. Store in closed original container at temperatures between 15°C and 25°C. Store away from direct sunlight and moisture

STORAGE CLASS

Flammable liquid storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
ETHANOL	OES	1000 ppm	1920 mg/m ³			
METHANOL	WEL	200 ppm(Sk)	266 mg/m ³ (Sk)	250 ppm(Sk)	333 mg/m ³ (Sk)	

WEL = Workplace Exposure Limit.

ENGINEERING MEASURES

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined workplace exposure limit (WEL) is not exceeded. Explosion-proof general and local exhaust ventilation. Work in flameproof fume cupboard.

RESPIRATORY EQUIPMENT

Wear suitable respiratory protection if vapours or mists are generated. Consult with the supplier as to the compatibility of the equipment with the chemical of concern.

HAND PROTECTION

Use protective gloves. Rubber or plastic

EYE PROTECTION

Wear approved safety goggles.

OTHER PROTECTION

Wear suitable protective clothing as protection against splashing or contamination. Provide eyewash station and safety shower. If there is a risk of splashing then wear a face shield. Wear plastic apron and full length gloves if handling large amounts.

HYGIENE MEASURES

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes wet or contaminated. When using do not eat, drink or smoke.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Liquid	RELATIVE DENSITY	0.8
COLOUR	Colourless	pH-VALUE, CONC. SOLUTION	7
ODOUR	Odour of alcohol	AUTO IGNITION TEMPERATURE (°C)	425
SOLUBILITY	Miscible with water		
BOILING POINT (°C)	Approx. 78 760 mm Hg		
VAPOUR DENSITY (air=1)	1.5		
FLASH POINT (°C)	13		

METHYLATED SPIRIT 99 V/V 74 OP LRG

FLAMMABILITY LIMIT - LOWER(%) 3.3

FLAMMABILITY LIMIT - UPPER(%) 19

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions.

CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition.

MATERIALS TO AVOID

Alkali metals. Alkali earth metals. Acid anhydrides. Acids. Inorganic hydrides. Oxidising agents. Fluorine Mercury compounds. Silver compounds. Non-metallic halides The possibility of reaction with other materials cannot be excluded.

11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50 6200 (Ethanol), 5628 (Methanol) mg/kg (oral rat)

INHALATION

Harmful by inhalation.

INGESTION

Damage to mucous membrane. May cause nausea, headache, dizziness and intoxication.

SKIN CONTACT

Product has a defatting effect on skin. May be absorbed through the skin. May cause secondary inflammation.

EYE CONTACT

Irritating to eyes.

HEALTH WARNINGS

Absorption of large quantities may cause irreversible damage to the optic nerve (due to methanol), nausea, headache, vomiting, inebriation and blindness. Causes narcosis and possible respiratory paralysis.

12 ECOLOGICAL INFORMATION

ECOTOXICITY

Although not classified as environmentally hazardous, harmful effects cannot be excluded in the event of improper handling or disposal.

DEGRADABILITY

Ethanol: Biodegradable

ACUTE FISH TOXICITY

Ethanol >10,000 mg/L

13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION



UK ROAD CLASS	3		
PROPER SHIPPING NAME	ETHANOL (ETHYL ALCOHOL)		
UN NO. ROAD	1170	UK ROAD PACK GR.	II
ADR CLASS NO.	3	ADR CLASS	Class 3: Flammable liquids.
ADR PACK GROUP	II	ADR LABEL NO.	3
HAZCHEM CODE	2YE	CEFIC TEC(R) NO.	30GF1-III
RID CLASS NO.	3	RID PACK GROUP	II
UN NO. SEA	1170	IMDG CLASS	3
IMDG PAGE NO.	3	IMDG PACK GR.	II
EMS	F-E, S-D	MFAG	See Guide
MARINE POLLUTANT	No.	UN NO. AIR	1170
AIR CLASS	3	AIR PACK GR.	II

METHYLATED SPIRIT 99 V/V 74 OP LRG**15 REGULATORY INFORMATION**

LABELLING



Harmful



Highly Flammable

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.
S51	Use only in well-ventilated areas.
S36/37	Wear suitable protective clothing and gloves.
S60	This material and its container must be disposed of as hazardous waste.

UK REGULATORY REFERENCES

Highly Flammable Liquid Regulations 1972. Fire precautions Act 1971.

STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations. Control of Substances Hazardous to Health.

APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply. COSHH essentials: Easy steps to control chemicals. Control of Substances Hazardous to Health Regulations.

GUIDANCE NOTES

Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37.

NATIONAL REGULATIONS

Control of Substances Hazardous to Health Regulations 2002 (as amended)

16 OTHER INFORMATION

GENERAL INFORMATION

Under REACH Material Safety Datasheets (MSDS) are referred to as Safety Datasheets (SDS).

REVISION COMMENTS

General rewrite

REVISION DATE 30/09/2009

REV. NO./REPL. SDS GENERATED 1

SDS NO. 10805

SAFETY DATA SHEET STATUS

Approved.

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.