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REVISION DATE: 09.11.2009

DIACETONE ALCOHOL MSDS

DIACETONE ALCOHOL

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

PRODUCT NAME DIACETONE ALCOHOL

SYNONYMS, TRADE NAMES DAA, , 4 Hydroxy-4-Methyl-2-Pentanone,

SUPPLIER

Emergency Contact Number

(Office Hours)

+44 1493 850303

Emergency Contact Number

(Outside Office Hours)

+44 1493 850303

SDS No. D001

2 HAZARDS IDENTIFICATION

Irritating to eyes.

CLASSIFICATION Xi;R36.

3 COMPOSITION/INFORMATION ON INGREDIENTS

EU INDEX NO. 603-017-00-7

EC No. 204-626-7

CAS-No. 123-42-2

4 FIRST-AID MEASURES

INHALATION

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

INGESTION

Provide rest, warmth and fresh air. Immediately rinse mouth and drink plenty of water (200-300 ml). Get medical attention.

SKIN CONTACT

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.

EYE CONTACT

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart.

Get medical attention if any discomfort continues.

5 FIRE-FIGHTING MEASURES

Abbey Chemicals

27-30 North River Road

Great Yarmouth

Norfolk

NR30 1SH

Tel: +44 1493 850303

Fax: +44 1493 330909

www.abbey-chemicals.co.uk

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EXTINGUISHING MEDIA

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

SPECIFIC HAZARDS

Oxides of: Carbon.

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

Follow precautions for safe handling described in this safety data sheet. Avoid inhalation of spray mist and contact with skin and eyes. Provide adequate ventilation.

ENVIRONMENTAL PRECAUTIONS

Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

SPILL CLEAN UP METHODS

Absorb with inert, damp, non-combustible material, then flush area with water. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Avoid spilling, skin and eye contact. Keep away from heat, sparks and open flame. Eliminate all sources of ignition. Provide good ventilation.

STORAGE PRECAUTIONS

Keep containers tightly closed. Keep in original container. Keep away from heat, sparks and open flame.

STORAGE CLASS

Flammable liquid storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name Std TWA - 8 hrs STEL - 15 min Notes

DIACETONE ALCOHOL WEL 50 ppm 241 mg/m3 75 ppm 362 mg/m3

WEL = Workplace Exposure Limit.

PROTECTIVE EQUIPMENT

RESPIRATORY EQUIPMENT

If ventilation is insufficient, suitable respiratory protection must be provided.

HAND PROTECTION

Use protective gloves.

EYE PROTECTION

Wear approved safety goggles.

OTHER PROTECTION

Wear rubber apron. Wear rubber footwear.

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DIACETONE ALCOHOL

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE Clear liquid

COLOUR Colourless

ODOUR Sweetish

SOLUBILITY Soluble in water

BOILING POINT (°C) 166 - 169 MELTING POINT (°C) -54

RELATIVE DENSITY 0.94 VAPOUR PRESSURE 0.84 mm Hg

FLASH POINT (°C) 62 CC (Closed cup). AUTO IGNITION

TEMPERATURE (°C)

640

FLAMMABILITY LIMIT -

LOWER(%)

1.8 FLAMMABILITY LIMIT -

UPPER(%)

6.9

PARTITION COEFFICIENT

(N-Octanol/Water)

1.03

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions and recommended use.

CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition. Avoid excessive heat for prolonged periods of time.

MATERIALS TO AVOID

Strong acids. Strong oxidising substances.

HAZARDOUS DECOMPOSITION PRODUCTS

Oxides of: Carbon.

11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50 4000 mg/kg (oral rat)

INHALATION

May cause irritation to the respiratory system.

INGESTION

Gastrointestinal symptoms, including upset stomach. May cause nausea, headache, dizziness and intoxication.

SKIN CONTACT

Irritating to skin.

EYE CONTACT

Irritating to eyes.

12 ECOLOGICAL INFORMATION

ECOTOXICITY

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

LC 50, 96 Hrs, FISH mg/l 420

MOBILITY

The product is soluble in water.

13 DISPOSAL CONSIDERATIONS

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GENERAL INFORMATION

Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local

Waste Disposal Authority. Do not puncture or incinerate even when empty.

DISPOSAL METHODS

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

14 TRANSPORT INFORMATION

UK ROAD CLASS 3

PROPER SHIPPING NAME DIACETONE ALCOHOL

UN NO. ROAD 1148 UK ROAD PACK GR. III

ADR CLASS NO. 3 Class 3: Flammable

liquids.

ADR CLASS

ADR PACK GROUP III HAZARD No. (ADR) 30

ADR LABEL NO. 3 HAZCHEM CODE 2Y

CEPIC TEC(R) NO. 30GF1-III RID CLASS NO. 3

RID PACK GROUP III UN NO. SEA 1148

IMDG CLASS 3 IMDG PACK GR. III
EMS F-E, S-D MFAG See Guide
MARINE POLLUTANT No. UN NO. AIR 1148
AIR CLASS 3 AIR PACK GR. III

15 REGULATORY INFORMATION

LABELLING

Irritant

RISK PHRASES

R36 Irritating to eyes.

SAFETY PHRASES

S2 Keep out of the reach of children

S7 Keep container tightly closed.

S16 Keep away from sources of ignition - No smoking.

S24/25 Avoid contact with skin and eyes.

STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations.

APPROVED CODE OF PRACTICE

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply. DSEAR

GUIDANCE NOTES

CHIP for everyone HSG(108). Workplace Exposure Limits EH40.

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16 OTHER INFORMATION

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REV. NO./REPL. SDS

GENERATED

05

SDS NO. D001

SAFETY DATA SHEET STATUS

Approved.

DATE 21.11.2008

SIGNATURE Thomas Tailford

Specifications for Diacetone Alcohol

Molecular Formula $C_6H_{12}O_2$

Mol Wt 116.16

CAS # [123-42-2]

Description Clear colourless liquid

Sp gravity @ 27/27 deg cel 0.910-0.912

Flash point in deg cel 58

Distillation range in deg cel 166.0 ± 1

Purity (%) 99.4 min

Colour (APHA) 30 max

Uses:

Chemical Manufacturing Solvent

Fuels and Lubricants Solvent

Pigments Solvent

Wax Solvent

Fat Solvent