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
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.

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) 840
FLAMMABILITY LIMIT -
LOWER(%) 1.8
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)
INGESTION
May cause irritation to the respiratory system.
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
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
CEFIC TEC(R) NO. 30GF1-III RID CLASS NO. 3
RID PACK GROUP III UN NO. SEA 1148
Specifications for Diacetone Alcohol

Molecular Formula C6H12O2
Mol Wt 116.16
CAS # [123-42-2]
Description Clear colorless 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