SURECHEM PRODUCTS LTD
LION BARN INDUSTRIAL ESTATE
NEEDHAM MARKET
SUFFOLK
IP6 8NZ
ENGLAND

TEL: +44 (0)1449 722143
FAX: +44 (0)1449 722483
E-MAIL sales @ surechem.co.uk

ACETONITRILE

MATERIAL SAFETY DATA SHEET No.A080 GHS VERSION 5 06.04.16

SECTION 1. CHEMICAL IDENTIFICATION

1.1 IDENTIFICATION OF THE SUBSTANCE/ PREPARATION

PRODUCT No.A0802	ACETONITRILE CP
PRODUCT No.A0804	ACETONITRILE AR
PRODUCT No.A0806	ACETONITRILE HPS far UV
PRODUCT No.A0816	ACETONITRILE HPLC HPS

1.2 USE OF THE SUBSTANCE/ PREPARATION
FOR LABORATORY USE, ANALYSIS, RESEARCH, MANUFACTURING AND FINE CHEMISTRY

1.3 IDENTIFICATION OF THE COMPANY OR FIRM

COMPANY SURECHEM PRODUCTS LIMITED
LION BARN INDUSTRIAL ESTATE
NEEDHAM MARKET
SUFFOLK IP6 8NZ
UNITED KINGDOM
TEL: +44 (0) 1449 722143
FAX +44 (0) 1449 722483
E-MAIL sales@surechem.co.uk

1.4 EMERGENCY TELEPHONE
SINGLE TELEPHONE NUMBER FOR EMERGENCY CALLS (+44) 1449 722 143

REACH NUMBER 01-2119471307-38-XXXX

IDENTIFIED USES
INDUSTRIAL MANUFACTURING
ACTIVE INGREDIENT MANUFACTURING
LABORATORY CHEMICALS

SECTION 2. HAZARDS IDENTIFICATION

CHIP INFORMATION
HIGHLY FLAMMABLE & HARMFUL LABELS
R11: HIGHLY FLAMMABLE
R20/21/22: HARMFUL BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED
R36: IRRITATING TO EYES.
S16: KEEP AWAY FROM SOURCES OF IGNITION - NO SMOKING
....S36/37: WEAR SUITABLE PROTECTIVE CLOTHING AND GLOVES

GHS LABEL ELEMENTS




DANGER

H225: HIGHLY FLAMMABLE LIQUID AND VAPOUR.
H332: HARMFUL IF SWALLOWED.
H312: HARMFUL IN CONTACT WITH SKIN.
H302: HARMFUL IF SWALLOWED.
H319: CAUSES SERIOUS EYE IRRITATION.
P210: KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES. - NO SMOKING.
P233: KEEP CONTAINER TIGHTLY CLOSED.
P240: GROUND/ BOND CONTAINER AND RECEIVING CONTAINER.
P241: USE EXPLOSION-PROOF ELECTRICAL/VENTILATING/LIGHTING/EQUIPMENT.
P242: USE ONLY NON-SPARKING TOOLS.
P243: TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGE.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS No.75-05-8 REACH NUMBER 01-2119471307-38-XXXX
MF: C2H3N
SYNONYMS
ETHYLNITRILE, METHYL CYANIDE

SECTION 4. FIRST-AID MEASURES

4.1 GENERAL INDICATIONS
NEVER PROVIDE DRINK OR INDUCE VOMITIING IN THE EVENT OF LOSS OF CONSCIOUSNESS.
REMOVE CONTAMINATED CLOTHING.
4.2 INHALATION
IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.
4.3 CONTACT WITH THE SKIN
IN CASE OF CONTACT, IMMEDIATELY WASH SKIN WITH SOAP AND COPIOUS AMOUNTS OF WATER. REMOVE AND WASH CONTAMINATED CLOTHING PROMPTLY.
4.4 EYES
IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES.
ASSURE ADEQUATE FLUSHING OF THE EYES BY SEPARATING THE EYELIDS WITH FINGERS.
4.5 SWALLOWING
IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS. AVOID VOMITING. CALL A PHYSICIAN.

SECTION 5. FIRE FIGHTING MEASURES

5.1 SUITABLE EXTINGUISHING MEDIA
CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM.
WATER MAY BE EFFECTIVE FOR COOLING, BUT MAY NOT EFFECT EXTINGUISHMENT.
5.2 UNSUITABLE EXTINGUISHING MEDIA
RUNNING WATER
5.3 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MISTURE
EXTREMELY FLAMMABLE.
VAPOR MAY TRAVEL CONSIDERABLE DISTANCE TO SOURCE OF IGNITION AND FLASH BACK.

CONTAINER EXPLOSION MAY OCCUR UNDER FIRE CONDITIONS.
EMITS TOXIC FUMES UNDER FIRE CONDITIONS.
KEEP AWAY FROM SOURCES OF IGNITION. IN THE EVENT OF FIRE, TOXIC FUMES MAY BE FORMED OF CO OR CO2

5.4 PROTECTIVE EQUIPMENT
WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.
USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES
DO NOT INHALE THE FUMES. ENSURE AQUEDATE VENTILATION. AVOID SOURCES OF IGNITION. DO NOT SMOKE.

6.2 ENVIRONMENTAL PRECAUTIONS
DO NOT ALLOW IT TO ENTER THE DRAINAGE SYSTEM. AVOID POLLUTION OF THE SOIL, WATER SUPPLIES AND DRAINS.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEARING UP.
COVER WITH AN ACTIVATED CARBON ADSORBENT, TAKE UP AND PLACE IN CLOSED CONTAINERS. TRANSPORT OUTDOORS.
VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.
WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY RUBBER GLOVES.

SECTION 7. HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING
ENSURE GOOD VENTILATION AND RENEWAL OF THE AIR IN THE PREMISES.
AVOID THE FORMATION OF ELECTROSTATIC CHARGES.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES
WELL SEALED CONTAINERS. IN A COOL DRY PLACE AWAY FROM LIGHT AND WELL VENTILATED.
KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAME.
HYGROSCOPIC

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 EXPOSURE CONTROLS
ENSURE GOOD VENTILATION AND RENEWAL OF AIR IN THE PREMISES.
SAFETY SHOWER AND EYE BATH. COMPATIBLE CHEMICAL-RESISTANT GLOVES.
NIOSH/MSHA-APPROVED RESPIRATOR. FACESHIELD (8-INCH MINIMUM).
DO NOT BREATHE VAPOR. DO NOT GET IN EYES, ON SKIN, ON CLOTHING.
AVOID PROLONGED OR REPEATED EXPOSURE.
WASH THOROUGHLY AFTER HANDLING. SEVERE EYE IRRITANT.

8.2 CONTROL PARAMETERS
OCCUPATIONAL EXPOSURE LIMITS EH40
EC TLV 40PPM(70MG/M3)

8.3 RESPIRATORY PROTECTION
IN THE EVENT OF FUMES FORMING/ AEROSOLS, USE SUITABLE RESPIRATORY PROTECTION.

8.4 HAND PROTECTION
NITRILE RUBBER GLOVES, POLYCHLORPRENE GLOVES CHEMICAL SAFETY GOGGLES.
SAFETY SHOWER AND EYE BATH.
NOT SUITABLE – RUBBER LATEX

8.5 EYE/ FACE PROTECTION
USE SAFETY GLASSES.

8.6 INDIVIDUAL HYGIENE MEASURES
REMOVE CONTAMINATED CLOTHING. USE SUITABLE WORK CLOTHING.

WASH HANDS AND FACE BEFORE BREAKS AND WHEN THE JOB IS DONE.
8.7 ENVIRONMENTAL EXPOSURE CONTROLS
AVOID POLLUTION OF THE SOIL, WATER SUPPLIES AND DRAINS.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR
CLEAR, COLORLESS LIQUID
BOILING POINT: 81 C TO 82 C
MELTING POINT: -48 C TO C
FLASHPOINT 42 F BY:
AUTOIGNITION TEMPERATURE: 973 F
UPPER EXPLOSION LEVEL: 16%
LOWER EXPLOSION LEVEL: 4.4%
VAPOR PRESSURE: 72.8MM 20 C
VAPOR DENSITY: 1.41
SPECIFIC GRAVITY: 0.786

SECTION 10. STABILITY AND REACTIVITY

10.1 CONDITIONS TO AVOID
ADJACENT SOURCES OF HEAT AND TEMPERATURES OVER 35 DEG C.
10.2 INCOMPATIBLE MATERIALS
ACIDS
BASES
OXIDIZING AGENTS
REDUCING AGENTS
ALKALI METALS
PROTECT FROM MOISTURE.
10.3 HAZARDOUS DECOMPOSITION PRODUCTS
THERMAL DECOMPOSITION MAY PRODUCE CARBON MONOXIDE, CARBON DIOXIDE, AND NITROGEN OXIDES.
HYDROGEN CYANIDE
10.4 CHEMICAL STABILITY
STABLE.
PROTECT FROM MOISTURE.

SECTION 11. TOXICOLOGICAL INFORMATION

ACUTE EFFECTS
MAY BE FATAL IF INHALED, SWALLOWED, OR ABSORBED THROUGH SKIN.
VAPOR OR MIST IS IRRITATING TO THE EYES, MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT.
CAUSES SKIN IRRITATION.
TARGET ORGAN(S):
CENTRAL NERVOUS SYSTEM
LIVER, KIDNEYS
BLOOD, LUNGS
RTECS NO: AL7700000
ACETONITRILE
IRRITATION DATA
ORL-MUS LD50:617 MG/KG
SKN-RBT LD50:1250 MG/KG

SECTION 12. ECOLOGICAL INFORMATION

12.1 TOXICITY
FISH LC50 1640MG/L (96HR)

12.2 PERSISTENCE AND DEGRADABILITY
BIODEGRADES.
12.3 BIOACCUMULATIVE POTENTIAL
DOES NOT BIOACCUMULATE
12.4 MOBILITY IN SOIL
DATA NOT AVAILABLE
12.5 ASSESSMENT PBT AND MPMB
DATA NOT AVAILABLE
12.6 OTHER ADVERSE EFFECTS
DO NOT ALLOW IT TO ENTER SOILS OR WATER CHANNELS.

SECTION 13. DISPOSAL CONSIDERATIONS

USE AN AUTHORISED WASTE CONTRACTOR.
OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

SECTION 14. TRANSPORT INFORMATION

UN1648 CLASS 3 PACKING GROUP II

SECTION 15. REGULATORY INFORMATION

CHIP INFORMATION
HIGHLY FLAMMABLE & HARMFUL LABELS
R11: HIGHLY FLAMMABLE
R20/21/22: HARMFUL BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED
R36: IRRITATING TO EYES.
S16: KEEP AWAY FROM SOURCES OF IGNITION - NO SMOKING
....S36/37: WEAR SUITABLE PROTECTIVE CLOTHING AND GLOVES

GHS LABEL ELEMENTS




DANGER

H225: HIGHLY FLAMMABLE LIQUID AND VAPOUR.
H332: HARMFUL IF SWALLOWED.
H312: HARMFUL IN CONTACT WITH SKIN.
H302: HARMFUL IF SWALLOWED.
H319: CAUSES SERIOUS EYE IRRITATION.
P210: KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES. - NO SMOKING.
P233: KEEP CONTAINER TIGHTLY CLOSED.
P240: GROUND/ BOND CONTAINER AND RECEIVING CONTAINER.
P241: USE EXPLOSION-PROOF ELECTRICAL/VENTILATING/LIGHTING/EQUIPMENT.
P242: USE ONLY NON-SPARKING TOOLS.
P243: TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGE.

SECTION 16. OTHER INFORMATION

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. SURECHEM PRODUCTS SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT. SEE CATALOGUE FOR ADDITIONAL TERMS AND CONDITIONS OF SALE.