

ACETIC ACID

MATERIAL SAFETY DATA SHEET No.A034 GHS VERSION 3 30.06.16

SECTION 1. CHEMICAL IDENTIFICATION

1.1 IDENTIFICATION OF THE SUBSTANCE/ PREPARATION

PRODUCT No.A0342 ACETIC ACID 80% CP
PRODUCT No.A0344 ACETIC ACID 80% AR

1.2 USE OF THE SUBSTANCE/ PREPARATION

FOR LABORATORY USE, ANALYSIS, RESEARCH 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

SECTION 2. HAZARDS IDENTIFICATION

R34: CAUSES BURNS.

GHS LABEL ELEMENTS



DANGER

H314: CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.

P260: DO NOT BREATHE DUST/FUME/ GAS/ MIST/VAPOURS/ SPRAY.

P264: WASH THOROUGHLY AFTER HANDLING.

P280: WEAR PROTECTIVE GLOVES/ PROTECTIVE CLOTHING/ EYE PROTECTION/
FACE PROTECTION.

P301+P330+P331: IF SWALLOWED: RINSE MOUTH. DO NOT INDUCE VOMITING.

P304/340: IF INHALED: REMOVE VICTIM TO FRESH AIR TO FRESH AIR AND KEEP
AT REST IN A POSITION COMFORTABLE FOR BREATHING.

P309+P310: IF EXPOSED OR IF YOU FEEL UNWELL: IMMEDIATELY CALL A POISON CENTRE
OR DOCTOR/ PHYSICIAN.

SECTION 3. COMPONENT COMPOSITION/ INFORMATION

AQUEOUS SOLUTION

NAME: ACETIC ACID 80% CAS 64-19-7

COMPOSITION

0001 ACETIC ACID GLACIAL REACH NUMBER 01-2119475328-30-XXXX
CONTENT 80%

CLASSIFICATION REGULATION EC 1272/2008



DANGER

H226: FLAMMABLE LIQUID AND VAPOUR.

H314: CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.

P210: KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES. - NO SMOKING.

P243: TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGES.

P280: WEAR PROTECTIVE GLOVES/ PROTECTIVE CLOTHING/ EYE PROTECTION/
FACE PROTECTION.

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OR DOCTOR/ PHYSICIAN.

SECTION 4. FIRST-AID MEASURES

4.1 GENERAL INDICATIONS

NEVER PROVIDE DRINK OR INDUCE VOMITING 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. SEEK IMMEDIATE MEDICAL ADVICE.

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 EXTINGUISHING MEDIA

CARBON DIOXIDE. ALCOHOL RESISTANT FOAM. DRY POWDER, WATER SPRAY

5.2 FIRE-FIGHTING MEANS WHICH MUST NOT BE USED

RUNNING WATER

5.3 SPECIAL RISKS

FLAMMABLE. EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

5.4 PROTECTIVE EQUIPMENT

WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO
PREVENT CONTACT WITH SKIN AND EYES.

SECTION 6.**ACCIDENTAL RELEASE MEASURES**

- 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES
DO NOT INHALE THE FUMES. ENSURE ADEQUATE VENTILATION. 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 VERMICULITE, SAND, OR ABSORBENT AND TRANSPORT OUTDOORS FOR
DISPOSAL.
VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.
WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY
RUBBER GLOVES.
EVACUATE AREA.

SECTION 7.**HANDLING AND STORAGE**

- 7.1 PRECAUTIONS FOR SAFE HANDLING
ENSURE GOOD VENTILATION AND RENEWAL OF THE AIR IN THE PREMISES.
- 7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES
WELL SEALED CONTAINERS. IN A COOL DRY PLACE.
DO NOT STORE NEAR, NOR ALLOW CONTACT WITH, CLOTHING.
KEEP TIGHTLY CLOSED.

SECTION 8**EXPOSURE CONTROLS/PERSONAL PROTECTION**

- 8.1 EXPOSURE CONTROLS
ENSURE GOOD VENTILATION AND RENEWAL OF AIR IN THE PREMISES. DO NOT BREATHE
VAPOUR.
- 8.2 EXPOSURE LIMIT CONTROL
TWA 10PPM 25MG/M3
- 8.3 RESPIRATORY PROTECTION
IN THE EVENT OF FUMES FORMING/ AEROSOLS, USE SUITABLE RESPIRATORY
PROTECTION.
- 8.4 HAND PROTECTION
HEAVY NITRILE GLOVES
- 8.5 EYE/ FACE PROTECTION
CHEMICAL SAFETY GOGGLES.
SAFETY SHOWER AND EYE BATH.
- 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. RUBBER GLOVES.
WEAR APPROPRIATE GLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING.
SAFETY SHOWER AND EYE BATH.

USE ONLY IN A CHEMICAL FUME HOOD.
SAFETY SHOWER AND EYE BATH.
FACESHIELD (8-INCH MINIMUM).
DO NOT GET IN EYES, ON SKIN, ON CLOTHING.
DO NOT BREATHE VAPOR.
READILY ABSORBED THROUGH SKIN.
WASH THOROUGHLY AFTER HANDLING.
CORROSIVE. HARMFUL LIQUID.

SECTION 9.**PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE AND ODOR
COLORLESS LIQUID

SPECIFIC GRAVITY: 1.07

SECTION 10. STABILITY AND REACTIVITY

- 10.1 CONDITIONS TO AVOID
ADJACENT SOURCES OF HEAT AND TEMPERATURES
- 10.2 INCOMPATIBLE MATERIALS
BASES, FINELY POWDERED METALS, NITRIC ACID, METAL OXIDES
- 10.3 HAZARDOUS DECOMPOSITION PRODUCTS
TOXIC FUMES OF: CARBON OXIDES.
- 10.4 CHEMICAL STABILITY
STABLE.

SECTION 11. TOXICOLOGICAL INFORMATION

- 11.1 ACUTE TOXICITY
LD50 ORAL RAT 3310MG/KG
- 11.2 DANGEROUS EFFECTS FOR HEALTH
HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN.
MATERIAL IS EXTREMELY DESTRUCTIVE TO TISSUE OF THE MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT, EYES AND SKIN.
INHALATION MAY BE FATAL AS A RESULT OF SPASM, INFLAMMATION AND EDEMA OF THE LARYNX AND BRONCHI, CHEMICAL PNEUMONITIS AND PULMONARY EDEMA.
SYMPTOMS OF EXPOSURE MAY INCLUDE BURNING SENSATION, COUGHING, WHEEZING, LARYNGITIS, SHORTNESS OF BREATH, HEADACHE, NAUSEA AND VOMITING.

RTECS NO: AF1225000

ACETIC ACID

IRRITATION DATA

SKN-HMN 50 MG/24H MLD	TXAPA9 31,481,75
SKN-RBT 20 MG/24H MOD	85JCAE -,304,86
SKN-RBT 525 MG OPEN SEV	UCDS** 8/7/63
SKN-RBT 50 MG/24H MLD	TXAPA9 31,481,75
EYE-RBT 50 UG OPEN SEV	AMIHBC 4,119,51
EYE-RBT 5 MG/30S RINSE MLD	TXCYAC 23,281,82

TOXICITY DATA

UNR-MAN LDLO:308 MG/KG	85DCAI 2,73,70
ORL-RAT LD50:3310 MG/KG	DMDJAP 31,276,59
IHL-MUS LC50:5620 PPM/1H	MELAAD 48,559,57
IVN-MUS LD50:525 MG/KG	APTOA6 18,141,61
SKN-RBT LD50:1060 MG/KG	UCDS** 8/7/63

TARGET ORGAN DATA

SENSE ORGANS AND SPECIAL SENSES (OTHER OLFACTION EFFECTS)
SENSE ORGANS AND SPECIAL SENSES (OTHER EYE EFFECTS)
BEHAVIORAL (CONVULSIONS OR EFFECT ON SEIZURE THRESHOLD)
LUNGS, THORAX OR RESPIRATION (OTHER CHANGES)
GASTROINTESTINAL (CHANGES IN STRUCTURE OR FUNCTION OF ESOPHAGUS)
GASTROINTESTINAL (ULCERATION OR BLEEDING FROM SMALL INTESTINE)
GASTROINTESTINAL (ULCERATION OR BLEEDING FROM LARGE INTESTINE)
EFFECTS ON FERTILITY (MALE FERTILITY INDEX)
EFFECTS ON NEWBORN (BEHAVIORAL)
ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES (RTECS) DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR COMPLETE INFORMATION.

SECTION 12. ECOLOGICAL INFORMATION

EC50 FISH 410MG/L – HIGHLY TOXIC
BIODEGRADES, NON-BIOACCUMULABLE

SECTION 13.**DISPOSAL CONSIDERATIONS**

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

SECTION 14.**TRANSPORT INFORMATION**

UN2789 CLASS 8(3) PACKING GROUP II

PLEASE NOTE THAT THIS PRODUCT HAS BEEN CLASSIFIED AS UN2789 "ACETIC ACID SOLUTION, MORE THAN 80% BY MASS" RATHER THAN UN2790 "ACETIC ACID SOLUTION, NOT LESS THAN 50% BY MASS, BUT NOT MORE THAN 80% BY MASS" BECAUSE IT HAS A NOMINAL ASSAY OF 80% AND CAN NOT BE GUARENTEED NOT TO EXCEED 80%.

SECTION 15.**REGULATORY INFORMATION**

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OR DOCTOR/ PHYSICAN.

REVIEWS, STANDARDS, AND REGULATIONS

ACGIH TLV-TWA 10 PPM; STEL 15 PPM 85INA8 5,4,86
EPA FIFRA 1988 PESTICIDE SUBJECT TO REGISTRATION OR RE-REGISTRATION
FEREAC 54,7740,89
MSHA STANDARD-AIR:TWA 10 PPM (25 MG/M3)
DTLVS* 3,2,71
OSHA PEL:8H TWA 10 PPM (25 MG/M3)
FEREAC 54,2923,89
OSHA PEL FINAL:8H TWA 10 PPM (25 MG/M3)
FEREAC 54,2923,89
OEL-AUSTRALIA:TWA 10 PPM (25 MG/M3);STEL 15 PPM (37 MG/M3) JANUARY
1993
OEL-AUSTRIA:TWA 10 PPM (25 MG/M3) JANUARY 1993
OEL-BELGIUM:TWA 10 PPM (25 MG/M3);STEL 15 PPM (37 MG/M3) JANUARY 1993
OEL-CZECHOSLOVAKIA:TWA 25 MG/M3;STEL 50 MG/M3 JANUARY 1993
OEL-DENMARK:TWA 10 PPM (25 MG/M3) JANUARY 1993
OEL-FINLAND:TWA 10 PPM (25 MG/M3);STEL 15 PPM (37 MG/M3);SKIN JANUARY
1993
OEL-FRANCE:STEL 10 PPM (25 MG/M3) JANUARY 1993
OEL-GERMANY:TWA 10 PPM (25 MG/M3) JANUARY 1993
OEL-HUNGARY:TWA 10 MG/M3;STEL 20 MG/M3 JANUARY 1993
OEL-INDIA:TWA 10 PPM (25 MG/M3);STEL 15 PPM (37 MG/M3) JANUARY 1993

OEL-JAPAN:TWA 10 PPM (25 MG/M3) JANUARY 1993
OEL-THE NETHERLANDS:TWA 10 PPM (25 MG/M3) JANUARY 1993
OEL-THE PHILIPPINES:TWA 10 PPM (25 MG/M3) JANUARY 1993
OEL-POLAND:TWA 5 MG/M3 JANUARY 1993
OEL-RUSSIA:TWA 10 PPM;STEL 5 MG/M3;SKIN JANUARY 1993
OEL-SWEDEN:TWA 10 PPM (25 MG/M3);STEL 15 PPM (35 MG/M3) JANUARY 1993
OEL-SWITZERLAND:TWA 10 PPM (25 MG/M3);STEL 20 PPM (50 MG/M3) JANUARY 1993
OEL-THAILAND:TWA 10 PPM (25 MG/M3) JANUARY 1993
OEL-TURKEY:TWA 10 PPM (25 MG/M3) JANUARY 1993
OEL-UNITED KINGDOM:TWA 10 PPM (25 MG/M3);STEL 15 PPM (35 MG/M3) JANUARY 1993
OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA, NEW ZEALAND, SINGAPORE, VIETNAM CHECK ACGIH TLV
NIOSH REL TO ACETIC ACID-AIR:10H TWA 10 PPM;STEL 15 PPM
NIOSH* DHHS #92-100,92
NOHS 1974: HZD 01568; NIS 264; TNF 51469; NOS 150; TNE 486503
NOES 1983: HZD 01568; NIS 266; TNF 49403; NOS 169; TNE 907205; TFE 322123
EPA GENETOX PROGRAM 1988, NEGATIVE: HISTIDINE REVERSION-AMES TEST
EPA TSCA CHEMICAL INVENTORY, JUNE 1990
EPA TSCA SECTION 8(E) STATUS REPORT 8EHQ-0486-0600
EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, JANUARY 1993
NIOSH ANALYTICAL METHODS: SEE ACETIC ACID, 1603
OSHA ANALYTICAL METHOD #ID-118

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. GHS VERSION 3 NGT 30.06.16 REPLACES GHS VERSION 2 DATED 30.12.14 WHICH REPLACED GHS VERSION 1 DATED 24.01.12
EXPLANATION OF UN NUMBER ADDED FOR VERSION 2.
REFORMATTED FOR VERSION 3
BASED ON CAERNAP