



Safety Data Sheet

Creation date

22/01/2016

Revision date

22/09/2016

1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product name: ME007

Product number: ME007AN

A2S Analytical Standard Solutions

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2 - HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Flammable liquids (Category 2), H225

Acute toxicity, Oral (Category 4), H302

Acute toxicity, Inhalation (Category 4), H332

Acute toxicity, Dermal (Category 4), H312

Eye irritation (Category 2), H319

For the full text of the H-Statements mentioned in this Section, see Section 16.

Classification according to EU Directives 67/548/EEC or 1999/45/EC

F Highly flammable R11

Xn Harmful R20/21/22

Xi Irritant R36

For the full text of the R-phrases mentioned in this Section, see Section 16.

Label elements

Labelling according Regulation (EC) No 1272/2008



Pictogram

Signal word Danger

Hazard statement(s)

H225 Highly flammable liquid and vapour.

H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled

H319 Causes serious eye irritation.

Precautionary statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P280 Wear protective gloves/ protective clothing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental Hazard Statements

none

Other hazards - none

22/09/2016

3 - COMPOSITION/INFORMATION ON INGREDIENTS

Product name	CAS number	EC number	Index number
Prochloraz	67747-09-5	266-994-5	NA
Propaquizafop	111479-05-1	NA	NA
Pyrimethanil	53112-28-0	414-220-3	NA
Rimsulfuron	122931-48-0	NA	NA
Saccharin	81-07-2	201-321-0	NA
Tebuconazole	107534-96-3	403-640-2	NA
Terbumeton	33693-04-8	251-637-8	NA
Terbuthylazine desethyl	30125-63-4	NA	NA
Thifensulfuron methyl	79277-27-3	NA	NA
Tri-allate	2303-17-5	218-962-7	NA
Tetraglyme	143-24-8	205-594-7	NA
Omethoate	1113-02-6	214-197-8	NA
Phenmedipham	13684-63-4	237-199-0	NA
Pirimicarb	23103-98-2	245-430-1	NA
Propachlor	1918-16-7	217-638-2	NA
Picolinafen	137641-05-5	NA	NA
Pethoxamid	106700-29-2	NA	NA
Quinmerac	90717-03-6	402-790-6	NA
Sulcotrione	99105-77-8	NA	NA
Thiaclopride	111988-49-9	NA	NA
Tolyfluanid	731-27-1	211-986-9	NA
Triphenylphosphine oxide	791-28-6	212-338-8	NA
Tritosulfuron	142469-14-5	NA	NA
Nicosulfuron	111991-09-4	NA	NA
Oxadiazon	19666-30-9	243-215-7	NA
Orbencarb	34622-58-7	NA	NA
Phoxim	14816-18-3	238-887-3	NA
Prometryn	7287-19-6	230-711-3	NA
Sebuthylazine	7286-69-3	230-710-8	NA
Secbumeton	26259-45-0	247-554-1	NA
Simazine	122-34-9	204-535-2	NA
Sucralose	56038-13-2	259-952-2	NA
Sulcotrione-CMBA	53250-83-2	406-520-8	NA
Tebutam	35256-85-0	252-470-3	NA
Trinexapac ethyl	95266-40-3	NA	NA
Antipyrine	60-80-0	200-486-6	NA
Pendimethaline	40487-42-1	254-938-2	NA
Propiconazole	60207-90-1	262-104-4	NA
Prosulfocarb	52888-80-9	401-730-6	NA
Prometon	1610-18-0	216-548-0	NA
Terbutryn	886-50-0	212-950-5	NA
Terbuthylazine	5915-41-3	227-637-9	NA
Thiamethoxam	153719-23-4	NA	NA
p-Toluenesulfonic acid	104-15-4	203-180-0	NA
Triglyme	112-49-2	203-977-3	NA
N4-Acetylsulfadiazin	127-74-2	204-862-0	NA
N4-Acetyl-sulfadimethoxin	24341-30-8	NA	NA
N4-Acetyl-sulfamethoxazol	21312-10-7	244-330-5	NA
Propachlor-ESA	123732-85-4	NA	NA
Propachlor-OXA	123732-85-4	NA	NA

Simeton	673-04-1	211-601-4	NA
Acetonitrile	75-05-8	200-835-2	608-001-00-3

Solution can be found in a range concentration between 1 and 2000µg / ml / molecule.

4 - FIRST AID MEASURES

Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of any immediate medical attention and special treatment needed

no data available

5. FIREFIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture

no data available

Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

Further information

Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

For personal protection see section 8.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

For precautions see section 2.2.

Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Handle and store under inert gas.

Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Components with workplace control parameters

Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Full contact

Material: butyl-rubber

Minimum layer thickness: 0,3 mm

Break through time: 480 min

Material tested: Butoject® (KCL 897 / Aldrich Z677647, Size M)

Splash contact

Material: butyl-rubber

Minimum layer thickness: 0,3 mm

Break through time: 480 min

Material tested: Butoject® (KCL 897 / Aldrich Z677647, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

a) Appearance Form: clear, liquid

Colour: colourless

b) Odour ether-like

c) Odour Threshold no data available

d) pH no data available

e) Melting point/freezing point

Melting point/range: -48 °C

f) Initial boiling point and boiling range

81 - 82 °C

g) Flash point 2,0 °C - closed cup

h) Evaporation rate 5,8

i) Flammability (solid, gas) no data available

j) Upper/lower flammability or explosive limits

Upper explosion limit: 16 %(V)

Lower explosion limit: 3 %(V)

k) Vapour pressure 73,18 hPa at 15 °C

121,44 hPa at 25 °C

413,23 hPa at 55 °C

98,64 hPa at 20 °C

l) Vapour density 1,42 - (Air = 1.0)

m) Relative density 0,786 g/mL at 25 °C

n) Water solubility completely soluble

o) Partition coefficient: noctanol/ water

log Pow: -0,54 at 25 °C

p) Auto-ignition temperature

524,0 °C

q) Decomposition temperature

no data available

r) Viscosity no data available

s) Explosive properties Not explosive

t) Oxidizing properties The substance or mixture is not classified as oxidizing.

Other safety information

Surface tension 29,0 mN/m at 20,0 °C

Relative vapour density 1,42 - (Air = 1.0)

10. STABILITY AND REACTIVITY

Reactivity

no data available

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

no data available

Conditions to avoid

Heat, flames and sparks. Extremes of temperature and direct sunlight.

Incompatible materials

acids, Bases, Oxidizing agents, Reducing agents, Alkali metals

Hazardous decomposition products

Other decomposition products - no data available

In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity

LD50 Oral - rat - male - 1.320 - 6.690 mg/kg

LC50 Inhalation - mouse - 4 h - 3587 ppm

(OECD Test Guideline 403)

LC50 Inhalation - rat - 4 h - 26,8 mg/l

LD50 Dermal - rabbit - male and female - > 2.000 mg/kg

(OECD Test Guideline 402)

Skin corrosion/irritation

Skin - rabbit

Result: No skin irritation

(OECD Test Guideline 404)

Serious eye damage/eye irritation

Eyes - rabbit

Result: Irritating to eyes.

(OECD Test Guideline 405)

Respiratory or skin sensitisation

Buehler Test - guinea pig

Did not cause sensitisation on laboratory animals.

(OECD Test Guideline 406)

Germ cell mutagenicity

Hamster ovary

Result: negative

Mutation in mammalian somatic cells.

Ames test

S. typhimurium

Result: Not mutagenic in Ames Test.

Hamster ovary

Result: Equivocal evidence.

Sister chromatid exchange

Mutagenicity (micronucleus test) mouse

Result: Positive results were obtained in some in vivo tests.

Carcinogenicity

No evidence of carcinogenicity in animal studies (when indicated)

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

Animal testing did not show any effects on fertility.

Specific target organ toxicity - single exposure

The substance or mixture is not classified as specific target organ toxicant, single exposure.

Specific target organ toxicity - repeated exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration hazard

No aspiration toxicity classification

Additional Information

RTECS: AL7700000

Treat as cyanide poisoning., Always have on hand a cyanide first-aid kit, together with proper instructions.,

The onset of symptoms is generally delayed pending conversion to cyanide., Nausea, Vomiting, Diarrhoea,

Headache, Dizziness, Rash, Cyanosis, excitement, depression, Drowsiness, impaired judgment, Lack of

coordination, stupor, death

12. ECOLOGICAL INFORMATION

Toxicity

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 1.640,00 mg/l - 96 h

NOEC - *Oryzias latipes* - 102 mg/l - 21 d
Toxicity to daphnia and other aquatic invertebrates
EC50 - *Daphnia magna* (Water flea) - 3.600 mg/l - 48 h
(OECD Test Guideline 202)
NOEC - *Daphnia magna* (Water flea) - 160 mg/l - 21 d

Persistence and degradability

Biodegradability Result: 84 % - Readily biodegradable.
(OECD Test Guideline 301C)

Bioaccumulative potential

No bioaccumulation is to be expected (log Pow <= 4).

Mobility in soil

Not expected to adsorb on soil.

Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects

Avoid release to the environment.

Stability in water

Remarks: Hydrolyses slowly.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

UN number

ADR/RID: 1648 IMDG: 1648 IATA: 1648

UN proper shipping name

ADR/RID: ACETONITRILE

IMDG: ACETONITRILE

IATA: Acetonitrile

Transport hazard class(es)

ADR/RID: 3 IMDG: 3 IATA: 3

Packaging group

ADR/RID: II IMDG: II IATA: II

Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

Special precautions for user

no data available

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture

no data available

Chemical Safety Assessment

A Chemical Safety Assessment has been carried out for this substance.

16. OTHER INFORMATION

Further 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. The information in this document is based on the present state of our knowledge, is applicable to the product with regard to appropriate safety precautions and has made following our internal Laboratory Quality rules . It does not represent any guarantee of the properties of the product. A2S Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

LIMIT OF RESPONSIBILITY

Has exclusive use the research and development; do not use in pharmaceutical purposes.

For any additional information consult the following site : <http://sitem.herts.ac.uk/aeru/iupac/>

SPECIMEN