

No.:EM160629043CE002 Date: Jul.06, 2016 Page 1 of 12

Prepared for : PHOMI MCM CO.,LTD.

Address : 112 ZHONGSHENG ROAD, PANYU DISTRICT, GUANGZHOU, CHINA

Prepared by : EMTEK (Shenzhen) Co., Ltd.

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Report Number : EM160629043C002

Date of Conduct : Jun.29, 2016

Date of Report : Jul.06, 2016

Signed for and on behalf of

EMTEK (Shenzhen)

Tested by:

Qu xiang

Test engineer

Reviewed by:

Howar

Technical supervisor

Approved by:

Pascal\Shi
Authorized signatory

Jul. 06, 2016





No.:EM160629043CE002 Date: Jul.06, 2016 Page 2 of 12

1- Identification of the substance /preparation and of the company/undertaking

Product identifier

Product name : 3-(Trimethoxysilyl)-propyl methacrylate

Alternative names : 3-(TrimethoxysilyI)-propyl methacrylate

Product Item No. /Lot. No : /

CAS No.EC No.Refer to section 2Molecular formulaRefer to section 2

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses : Clean hand and sterilization.

Uses advised against : Do not use near heat or ignition sources. Use in a well-ventilated area.

Details of the supplier of the safety data sheet

Registered company

: PHOMI MCM CO.,LTD

name

Address : 112 ZHONGSHENG ROAD, PANYU DISTRICT, GUANGZHOU, CHINA

Export to : /
Website : /

Telephone : 020-84515088

Fax : /

E-mail address : 283757115@qq.com

Emergency telephone number

Emergency phone :





No.:EM160629043CE002 Date: Jul.06, 2016 Page 3 of 12

2- Composition / Information on Ingredients

Substance or Preparation: preparation

Serial Number	Component/Substance	% by wt	CAS Number	EINECS Number	Molecular Formula	Classification
01	3-(Trimethoxysilyl)-pro pyl methacrylate	100	2530-85-0	219-785-8	C ₁₀ H ₂₀ O₅Si	N/A

Note: CAS Number is Chemical Abstract Service Registry Number.

EINECS Number is EUROPEAN Inventory of Existing Commercial Chemical Substance.

N/A denote not applicable.

3 - Hazards Identification

Hazards Classification

Classification of the : Not a hazardous substance or mixture according to Regulation (EC) No.

substance or mixture 1272/2008.

Label elements

Pictogram none

Signal word none

Labelling according Hazard statement(s) none

Regulation (EC) No : Precautionary statement(s) none

1272/2008 Supplemental Hazard

Statements none

Safety data sheet available on request.

Other hazards none





No.:EM160629043CE002 Date: Jul.06, 2016 Page 4 of 12

4 - First Aid Measures

Description of first aid measures

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

advice

If inhaled : If breathed in, move person into fresh air. If not breathing, give artificial respiration.

: Wash off with soap and plenty of water. In case of

skin contact

In case of eye : Flush eyes with water as a precaution.

contact

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 section3 and section 11)

Indication of any immediate medical attention and special treatment needed

No data available

5 - Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon

dioxide.

Special hazard arising from the

substance or mixture

: Carbon oxides, silicon oxides

Advice for firefighters

: Wear self contained breathing apparatus for fire fighting if

necessary.

Further information : Use water spray to cool unopened containers.





No.:EM160629043CE002 Date: Jul.06, 2016 Page 5 of 12

6 - Accidental Release Measures

Person precautions protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist

or gas. Remove all sources of ignition.

Beware of vapours accumulating to form explosive concentrations.

Vapours can accumulate in low

areas.

For personal protection see section 8.

Environment 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). Keep in

suitable, closed containers for disposal.

Reference to other sections

: For disposal see section 13.

7 - Handling and Storage

Precautions for safe

Avoid inhalation of vapour or mist.

handing

Keep away from sources of ignition - No smoking. Take measures to prevent

the build up of electrostatic charge.

For precautions see section 3.

Conditions for safe storage, including any

Store in cool place. Keep container tightly closed in a dry and well-ventilated

place.

incompatibilities

Recommended storage temperature: 2 - 8 °C

Moisture sensitive. Handle and store under inert gas. Heat sensitive.

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

: General industrial hygiene practice.

controls

Personal protective equipment





No.:EM160629043CE002 Date: Jul.06, 2016 Page 6 of 12

Eye/face protection: 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: Nitrile rubber

Minimum layer thickness: 0,4 mm Break through time: > 480 min

Material tested:Camatril® (KCL 730 / Aldrich Z677442, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0,4 mm Break through time: > 480 min

Material tested:Camatril® (KCL 730 / Aldrich Z677442, 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: impervious clothing, The type of protective equipment must be

selected according to the

concentration and amount of the dangerous substance at the





No.:EM160629043CE002 Date: Jul.06, 2016 Page 7 of 12

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

Appearance : Form: liquid Odor : No available data

Colour: colourless

Boiling Point: 190 °C - lit. **Density**: 1,045 g/cm³ at 25 °C - lit.

Freezing point : Melting point/freezing point: < Flashing Point : 92 °C - closed cup

-20 °C at ca.1.013,0 hPa -

OECD Test
Guideline 102

Explosion: No available data. **Explosion**: No available data.

Upper Limits

Lower Limits

Vapor Pressure: No available data.Vapor Density: No available data.Viscosity: No available data.pH: No available data

Solubility : No available data

10 - Stability and Reactivity

Reactivity : No available data.

Stability : Stable under recommended storage conditions.

Conditions To Avoid : Heat, flames and sparks

Possibility of hazard reactions : No data available

Incompatible materials : Strong oxidizing agents, Strong acids, Strong bases

Hazardous Decomposition Products : Other decomposition products - no data available

In the event of fire: see section 5





No.:EM160629043CE002 Date: Jul.06, 2016 Page 8 of 12

11 - Toxicological Information

Information on toxicological effects

Acute Toxicity : LD50 Oral - rat - male and female - > 2.000 mg/kg

(OECD Test Guideline 401)

LC50 Inhalation - rat - male and female - 4 h - > 2,28 mg/l

(OECD Test Guideline 403)

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

(OECD Test Guideline 402)

Skin - rabbit

corrosion/irritation Result: No skin irritation - 4 h

(OECD Test Guideline 404)

Serious eye : Eyes - rabbit

damage/eye irritation Result: No eye irritation

(OECD Test Guideline 405)

Respiratory or skin : Maximisation Test - guinea pig

sensitisation Result: Does not cause skin sensitisation.

(OECD Test Guideline 406)

Germ cell mutagenicity : Ames test

S. typhimurium Result: negative

Hamster ovary

Result: negative

Mutagenicity (micronucleus test)

mouse - male and female

Result: negative

Carcinogenicity: 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

Specific target organ

: No data available

toxicity-single

exposure

: No data available

Specific target organ

toxicity-repeated

: No data available

exposure

Aspiration hazard: No data available.





No.:EM160629043CE002 Date: Jul.06, 2016 Page 9 of 12

Additional information : RTECS: UC0230000

To the best of our knowledge, the chemical, physical, and toxicological

properties have not been thoroughly investigated.

12 - Ecological Information

Toxicity: Toxicity to fish semi-static test LC50 - Danio rerio (zebra fish) - > 100

mg/l - 96 h

(Directive 67/548/EEC, Annex V, C.1.)

Toxicity to daphnia and

other aquatic invertebrates

static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h

(Directive 67/548/EEC, Annex V, C.2.)

Toxicity to algae static test EC50 - Desmodesmus subspicatus (green

algae) - > 100 mg/l - 72 h

(Directive 67/548/EEC, Annex V, C.3.)

Toxicity to bacteria Respiration inhibition EC50 - Sludge Treatment - >

1.000 mg/l - 3 h

(OECD Test Guideline 209)

Persistence and : Biodegradability aerobic - Exposure time 28 d

degradability Result: 69 % - Readily biodegradable.

Bioaccumulative potential : no data available

Mobility in soil : no data available

Results of PBT and vPvB : PBT/vPvB assessment not available as chemical safety assessment

assessment not required/not conducted

Other adverse effects : no data available

13 - Disposal Considerations

Waste treatment methods

Product : This combustible material may be burned in a chemical incinerator

equipped with an afterburner and scrubber. Offer surplus and

non-recyclable solutions to a licensed disposal company

Contaminated packaging: Dispose of as unused product.





No.:EM160629043CE002 Date: Jul.06, 2016 Page 10 of 12

14 - Transport Information

Transport Attentions:

In the case of land, air and ocean shipping, avoid exposure to fire, water, prevent damp and insolation. The products restrict the use of own steel tanker shipment when railway transport, submit to relevant departments for approval. The transport vehicles should be equipped with the appropriate variety and quantity of fire control equipment and emergency equipment for leakage. In summer, best transport in morning or evening. Transport tank should have grounding chain, the inner of tank should have baffle hole plate to reduce static electricity. Ban mixed operation with antioxidants, acid, alkali metal and amine. Prevent insolate, rain and heat in transit. Keep away from fire, heat and high temperature when stopover. Exhaust pipes of transport vehicle must be equipped with fire retardant equipment. Ban load and unload with mechanical equipments and tools that easy to produce the spark. According to prescribed routes when road transport. Do not stay in residential area and densely populated area. Ban humping when railway transport. Ban bulk transport use wooden boats, concrete boats. The container must be handled carefully.

Please refer to section 7-HANDING AND STORAGE also, and requirements of the ADR-RID/PG III, IMO/IMDG/PG III, IATA/ICAO/PG III.

Packing Method:

No available data.

Maritime transport IMDG

IMDG CodeUN-NumberPacking groupNot available dataProper shipping nameNot available data

DOT regulations

Hazard class : Not hazardous goods
Identification number : Not available data
Packing group : Not available data
Proper shipping name : Not available data

Land transport ADR/RID(cross-border)

Hazard class : Not hazardous goods
UN-number : Not available data
Packing group : Not available data
Proper shipping name : Not available data

Air transport ICAO-TI and IATA-DGR

ICAO-TI-II class : Not hazardous goods
UN/ID Number : Not available data





No.:EM160629043CE002 Date: Jul.06, 2016 Page 11 of 12

Packing group : Not available data
Proper shipping name : Not available data

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

The product is harmless to marine.

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 : no data available

mixture

Chemical Safety Assessment For this product a chemical safety :

assessment was not carried out

16 - Other Information

ACGIH : American Conference of Governmental Industrial

ADR : European Agreement concerning the International Carriage of Dangerous Goods by

Road

CAS : Chemical Abstracts Service

CLP : Classification Packaging and Labelling

EC : European Commission

ECHA : European Chemicals Agency

EINECS : The European Inventory of Existing Commercial Chemical Substances

GHS : Globally Harmonised System of Classification and Labelling of Chemicals

IARC : International Agency for Research on Cancer

IATA : International Air Transport Association

International code for the construction and equipment of ships carrying dangerous :

· chemical in bulk

ICAO : International Civil Aviation Organization
IMDG : International Maritime Dangerous Goods

IC50 : Inhibitory Concentration fiftyLC50 : Lethal Concentration fiftyLD50 : Lethal Dose fifty per cent.

MARPOL: International Convention for the Prevention of Pollution From Ships

REACH: Registration Evaluation And Authorisation Of Chemicals





No.:EM160629043CE002 Date: Jul.06, 2016 Page 12 of 12

RID : Regulations Relating to International Carriage of Dangerous Goods by Rail

RTECS : Registry of Toxic Effects of Chemical Substances

STEL : Short term exposure limit
TWA : Time-Weighted Average

OSHA : Occupational Safety and Health Administration

NIOSH : National Institute for Occupational Safety and Health

TLV-TWA : Threshold Limit Value-Time Weighted Average
TLV-STEL : Threshold Limit Value-Short Term Exposure Limit

PEL : Permissible Exposure Limit

MAK : Maximale Arbeitsplatz-Konzentration...

Conductor information Date: Jul.06, 2016

Data Audit Units: EMTEK (Shenzhen) Co., Ltd.

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The End of MSDS



