

Safety data sheet according to Regulation (EC) No. 1907/2006

Trade name: KSL Sphere 20
Revision date: 10 May 2017
Print date: 18 May 2017

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Substance name/ Trade name: **KSL Sphere 20**

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

Relevant identified uses: Test dust
Uses advised against: -

1.3 Details of the supplier of the safety data sheet

Manufacturer/ Supplier: KSL staubtechnik gmbh
Address/ PO Box: Westendstrasse 11
Nat.-Ident./ Postcode/ city: DE - 89415 Lauingen
Telephone/ Fax/ E-mail: +49 (0) 9072 / 95 00-0 / Fax no: -50 / info@ksl-staubtechnik.de

1.4 Emergency telephone number

+49 (0) 9072/ 95 00-0 (Accessibility: Mon-Thu 8am to 4pm, Fri 8am to 12pm)

SECTION 2: Hazards identification

2.A Classification of the substance or mixture

Not applicable

2.B GHS label elements including precautionary statements

Pictogram (hazard symbol): Not applicable
Signal word(s): Not applicable
Hazard statements: Not applicable

Precautionary statements

Prevention: Not applicable

Response: P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P304+P340 IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P332+P313 If skin irritation occurs: Get medical attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.

Storage: P403+P233 Store in a well-ventilated place. Keep container tightly closed

Disposal: P501 Dispose of contents/container by the regulation

2.C Other hazards which do not result in classification (NFPA)

Health: 1
Fire: No data available
Reactivity: 0

SECTION 3: Composition/information on ingredients

3.1 Substances

Composition/ information on ingredients

Description of the substance: **Methyl Methacrylate, Copolymer**

Hazardous ingredients: None

Product identifier	CAS No.	EC No.	Concentration range [M.-%]	Reg. no. (REACH)	Classification according to Regulation (EC) No. 1272/2008
2-Methyl-2-Propenoic Acid	40471-03-2		100%		

Further information:

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SECTION 4: First aid measures

4.1 Description of first aid measures

General notes:

If symptoms persist, it is advised to consult a doctor. Please specify substance/product and measures taken to the doctor.

Eye Contact

Flush with a large amount of water for at least 15 minutes. Consult a physician if irritation persists.

Skin Contact

Wash skin with plenty of soap and water. Get medical attention if irritation.

Inhalation

If exposed to dust or monomer vapors generated during processing, move subject to fresh air.

Ingestion

If swallowed, give 2 glasses of water to drink. Consult a physician.

Notes to Physician

Avoid inhaling dust or irritating eye and skin.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable:

Suitable extinguishing media in the work area/ environment. Water spray, carbon dioxide, dry chemical or chemical foam.

Unsuitable:

-

5.2 Special hazards arising from the substance or mixture

Combusting Products: Oxides of carbon, Monomer vapor.

Unusual Hazards

Material as solid is combustible; burns vigorously with intense heat. Dust at sufficient concentrations can form explosive mixtures with air.

Personal Protective Equipment

As in any fire, wear self-contained breathing apparatus and full protective gear.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear gloves, safety glasses and respirator. Floor may be slippery; use care to avoid falling. Transfer spilled material to suitable containers for recovery or disposal.

6.2 Environmental precautions

Do not flush into sanitary sewer to avoid impact on environment. Vacuum or sweep up material and place into a suitable disposal container.

6.3 Methods and material for containment and cleaning up

6.3.1 Notes for containment

Avoid dust generation.

6.3.2 Notes for clean-up

Vacuum or sweep up material and place into a suitable disposal container.

6.3.3 Advice on inappropriate containment and cleaning methods

Blowing-off for cleaning purposes is not permitted.

6.4 Reference to other sections

See also Sections 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid high concentration of dust in air and accumulation of dust on equipment. An airborne dust of this material can create a dust explosion. Material can release monomer vapors or gases when heated to high temperatures during processing. Suitable ventilation and grounding is required.

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7.2 Conditions for safe storage

This material is not hazardous under normal storage conditions. Avoid temperature extremes during storage; ambient temperature preferred. Material can burn. Avoid all ignition sources. In order to avoid blocking material is not stored more than 3 layers.

SECTION 8: Exposure controls/ Personal protection

8.1 Occupational Exposure Limits

PEL (OSHA)

Particulates (Not Otherwise Classified) 15mg/m³, 8 Hr. TWA, total dust 5 mg/m³, 8 Hr. TWA, respirable dust.

TVL (ACGIH)

None established

Normal Handling

The use of eye protection is recommended.
An approved dust mask should be worn if exposure to high levels of dust are likely.

Thermal processing

Wear eye/face protection. Wear thermal insulating gloves when handling hot masses

Personal protective Equipment

Wear gloves, safety glasses and respirator.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

(a)	Appearance: - Aggregate state - Colour	Powder - solid clear to opaque, white
(b)	Odour	odourless
(c)	Odour threshold:	no data available
(d)	pH-value:	not applicable
(e)	Melting point/ freezing point:	no data available
(f)	Initial boiling and boiling range:	no data available
(g)	Flash point:	>280 °C
(h)	Evaporation rate:	not applicable
(i)	Flammability (solid, gas):	Combustible
(j)	Lower explosive limits:	not applicable
(k)	Vapour pressure:	not applicable
(l)	Solubility in Water:	immiscible
(m)	Vapour density (Air=1):	not applicable
(n)	Specific gravity:	1.19 to 1.20
(o)	Volatile Matter (%):	< 0,7
(p)	Partition coefficient n-octano/water:	not applicable
(q)	Auto-ignition temperature:	393°C / 739°F
(r)	Viscosity:	not applicable
(s)	molecular weight:	not applicable

SECTION 10: Stability and reactivity

A. Chemical stability

Stable under normal conditions.

B. Conditions to avoid

Avoid temperatures above 260 °C / 500 °F for prolonged periods to prevent slow decomposition

C. Incompatible materials

acids, alkalies and strong oxidizing agents.

D. Hazardous decomposition products

Oxides of carbon (COx)

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SECTION 11: Toxicological information

11. Information on toxicological effects

A. Information on the Likely Routes of Exposure

Eye Contact	Yes
Ingestion	No
Inhalation	Yes (mist)

B. Symptoms Related to the Physical, Chemical and Toxicological Characteristic

No data available

C. Delayed and Immediate Effects and also chronic Effects from short and long term exposure

Acute toxicity

Oral	The product is not acute toxic based on similar chemicals.
Skin	The product is not expected to acute toxic.
Inhalation	Mist or vapor from heated may irritate the respiratory tract.

Skin corrosion/irritation

No toxic symptoms reported. Monomer vapors may cause irritation.

Serious Eye damage/irritation

No toxic symptoms reported. Monomer vapors may cause irritation.

Respiratory or Skin Sensitization

No data available. However, based on our hazard characterization, the product is not expected to cause respiratory or skin sensitization.

Germ Cell Mutagenicity

Not expected to cause mutagenicity

Carcinogenicity

IARC Overall Evaluation: 3 (not classifiable as to carcinogenicity in humans). ACGIH Carcinogen Category: Not Classified. None of the substances in this product are listed as carcinogens in humans by the International Agency for Research on Cancer (IARC), American Conference of Governmental Industrial Hygienists (ACGIH) or the National Toxicology Program (NTP).

Reproductive Toxicity

No data available

STOT-Single Exposure

No data available

STOT-repeated Exposure

No data available

Aspiration Hazard

None known. No data available

D. Remark

According to experience, the product is considered to be harmless to health if used in the correct manner.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity studies have not been conducted concerning the environmental fate

12.2 Persistence and degradability

Not expected to be biodegradable.

12.3 Bioaccumulative potential

Not expected to bioaccumulate.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

None known. No data available.

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SECTION 13: Disposal considerations

A. Disposal methods

Residuals should be disposed by incineration or other modes of disposal in consistent with federal, state, and local regulations.

B. Special Precautions for incineration od landfill

No special precautions required. Combustion products are carbon monoxide, carbon dioxide and water.

SECTION 14: Transport information

A. UN number

Not regulated

B. UN proper shipping name

Not regulated

C. Transport hazard class(es)

Not regulated

D. Contaminant for Oceans

No

E. Special precautions for User

No data available

F. Special precautions for user

No special measures

SECTION 15: Regulatory information

15.A Safety, health and environment regulations

U.S. Federal, Envirinment

Clean Water Act Section 311 Hazardous Chemicals (40 CFR 116.4) : Not regulated.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3) : Not regulated.

RCRA Appendix VII: Hazardous Constituents (40 CFR 261, App. VII, Basis for Listing Hazardous Waste): Not regulated.

RCRA Appendix VIII List of Hazardous Constituents (40 CFR 261) : Not regulated.

RCRA D List of Characteristic Hazardous Wastes (40 CFR 261.21-24) : Not regulated.

NIOSH Recommended Safety and Health Standards for Hazardous Agents in the Workplace, Health Effects: Not regulated.

U.S. Federal, Right-to-know

CERCLA Hazardous Substances [other than radionuclides] (40 CFR 302.4): Not regulated.

EPCRA (SARA Title III) Section 313 Toxic Chemical (Reporting Form R Instructions for 2006, as revised January 2007): Not regulated.

HMIS Chemical Ratings (Hazardous Materials Information System, Chemical Ratings Guide, Third Edition, 2002): Not regulated.

CPSC Banned & Regulated Substances in Consumer Products (Consumer Product Safety Commission, 16 CFR 1000-1750) : Not regulated.

EU regulations

This chemical substance is not hazardous according to (EC) No. 1272/2008.

Korea

Korea. Dangerous Substances Threshold Quantity (Presidential Decree of Dangerous Substances Safety Management Act No. 18406, Schedule 1, May 29, 2004): Not regulated.

15.B National Fire Protection Association – NFPA Ratings (USA)

No data available

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15.C International Chemical Control Laws

Europe

The substance in this product is included in or exempted from the EINECS or ELINCS inventories.

U.S.

The substance in this product are included on or exempted from the TSCA 8(b) Inventory (40 CFR 710).

Japan

The substance in this product is comply with the Law Regulating the Manufacture and Importation of Chemical Substances and are listed on the Ministry of Economy, Trade and Industry (METI).

Korea

The substance in this product is comply with the Toxic Chemical Control Law (TCCL) and is listed on the Existing Chemicals Inventory (KECI). Toxic

Chemicals List - None of the component of this product is regulated under TCCL. Observational Chemicals List - None of the component of this product is regulated under TCCL

SECTION 16: Other information

16.A Reference

Clean Air Act Section 111, SOCM Intermediate or Final Volatile Organic Compounds (40 CFR 60.489): Not regulated.

Clean Air Act Section 112, Hazardous Air Pollutants, as amended by 40 CFR 63 (December 19, 2005): Not regulated.

Hazardous Organic NESHAP (HON) Hazardous Air Pollutants (40 CFR 63.100-.106, Table 2): Not regulated.

The Chemical Database, The Department of Chemistry at the University of Akron (<http://ull.chemistry.uakron.edu/erd>) (appearance)

The Chemical Database, The Department of Chemistry at the University of Akron (<http://ull.chemistry.uakron.edu/erd>) (Color)

Corporate Solution From Thomson Micromedex (<http://csi.micromedex.com>) (Odor characteristic)

Corporate Solution From Thomson Micromedex (<http://csi.micromedex.com>) (Specific gravity)

The Chemical Database, The Department of Chemistry at the University of Akron (<http://ull.chemistry.uakron.edu/erd>)(Auto-ignition Temperature)

Guideline for Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

EU European Chemicals Bureau (ECB): International Uniform Chemical Information Database (IUCLID).

16.B Issued date

2016-07-19 issued by supplier

16.5 Disclaimer

The information contained in this safety data sheet describes the safety requirements of our product and is based on our current level of knowledge. It implies no guarantee of the product properties and does not justify a contractual legal relationship. This safety data sheet serves the user as reference information. Although this safety data sheet has been drawn up with great care, no guarantee for data accuracy, and no liability for the consequences of printing, typeset or transcription errors can be accepted. The existing laws, regulations and rule systems, including those not mentioned in this data sheet, must be complied with by the recipient of our products under their own responsibility.

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