

1. Product and company identification

Product identifier

Trade name: 636K9 - Fast Curing Putty-Akemi

This safety data sheet pertains to the following products:
636K9=1 = Akemi-Schnellspachtel

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

General use: Filling compound for orthopedic procedures.
For commercial user only.

Details of the supplier of the safety data sheet

Company name: Otto Bock Health Care
Street/POB-No.: 3820 W. Great Lakes Drive
Postal Code, city: Salt Lake City, UT 84120
USA

WWW: www.ottobockus.com

Telephone: +1 (801) 956-2400

Telefax: +1 (801) 956-2401

Department responsible for information:

Quality Department,
Telephone: +1 (801) 954-2304 (7 AM – 3 PM, Mountain Time),
Email: USRegulatory@ottobock.com

Additional information:

Corporate headquarters:
Ottobock SE & Co. KGaA
Max-Näder-Straße 15
Duderstadt
Germany

Emergency phone number

CHEMTREC, Telephone: +1 (800) 424-9300

Transport:

CONSULTANK Lutz Harder GmbH (Contract QUALI003)

Telephone: +49 (0)178-4337434 (from USA: 01149 178 4337434)

2. Hazards identification

Emergency overview

Appearance: Form: liquid, viscous; viscous liquid

Color: light yellow

Odor: characteristic

Classification: Flammable Liquid - Category 3. Skin Irritation - Category 2. Eye Irritation - Category 2A. Reproductive toxicant - Category 2.
Specific Target Organ Toxicity (Repeated Exposure) - Category 1.
Aquatic toxicity - chronic - Category 3.

Hazard symbols:



Signal word:

Danger

Hazard statements:

Flammable liquid and vapor.
Causes skin irritation.
Causes serious eye irritation.
Suspected of damaging the unborn child.
Causes damage to organs through prolonged or repeated exposure.
Harmful to aquatic life with long lasting effects.

Precautionary statements:

Obtain special instructions before use.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Wear protective gloves/protective clothing/eye protection/face protection.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF exposed or concerned: Get medical advice/attention.
Store in a well-ventilated place. Keep container tightly closed.

Regulatory status

This material is considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200).

Hazards not otherwise classified

Potentially explosive mixtures may form if adequate ventilation is not provided.
Inhaling can lead to irritations of the respiratory tract and mucous membrane.
Higher doses may have a narcotic effect.
see section 11: Toxicological information

3. Composition / Information on ingredients

Chemical characterization: Filling compound based on unsaturated polyester resins dissolved in styrene.
Without hardener component.

Relevant ingredients:

| CAS No. | Designation | Concentration | Classification |
|---------------|----------------|---------------|---|
| CAS 100-42-5 | Styrene | 12.5 - 25 % | Flammable Liquid - Category 3. Acute Toxicity - inhalative - Category 4. Skin Irritation - Category 2. Eye Irritation - Category 2A. Reproductive toxicant - Category 2. Specific Target Organ Toxicity (Single Exposure) - Category 3. Specific Target Organ Toxicity (Repeated Exposure) - Category 1. Aspiration Toxicity - Category 1. Aquatic toxicity - chronic - Category 3. |
| CAS 7779-90-0 | Zinc phosphate | 1 - 5 % | Aquatic toxicity - acute - Category 1 (M-factor = 1). Aquatic toxicity - chronic - Category 1 (M-factor = 1). |

4. First aid measures

| | |
|-------------------------|--|
| General information: | Take off immediately all contaminated clothing. If victim is at risk of losing consciousness, position and transport on their side. |
| In case of inhalation: | Move victim to fresh air, provide oxygen as needed. In case of irregular breathing or respiratory arrest provide artificial respiration. Do not allow victim to become chilled. Keep victim warm. Keep airway open. Consult physician. |
| Following skin contact: | Immediately clean with water and soap and, if available, apply a generous amount of polyethylene glycol 400. Seek medical treatment in case of troubles. |
| After eye contact: | Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Subsequently consult physician. |
| After swallowing: | Do not induce vomiting. Rinse mouth with water. Immediately get medical attention. Never give anything by mouth to an unconscious person. |

Most important symptoms/effects, acute and delayed

Irritant. Causes damage to organs through prolonged or repeated exposure.
Suspected of damaging the unborn child.
In case of inhalation/After resorption: depression of central nervous system.
Symptoms: shortage of breath, drowsiness, headache, dizziness, fatigue, unconsciousness.
Reaction time and coordination may be impaired.
If higher concentrations occur: Pulmonary edema is possible.
Other symptoms: nausea, Sweating, Mucous membrane irritation, cough, vomiting.
Symptoms may occur with delay.
Inhaling can lead to irritations of the respiratory tract and mucous membrane.
Higher doses may have a narcotic effect.

Information to physician

In case of swallowing, gastric irrigation with activated carbon as an additive.
Symptoms of poisoning can only emerge after several hours; medical supervision is therefore essential for at least 48 hours.
Treat symptomatically.

5. Fire fighting measures

| | |
|--|---|
| Flash point/flash point range: | 89.6 °F |
| Auto-ignition temperature: | not self-igniting |
| Suitable extinguishing media: | Water spray jet, alcohol resistant foam, dry chemical powder, carbon dioxide. |
| Extinguishing media which must not be used for safety reasons: | Full water jet |

Specific hazards arising from the chemical

Flammable liquid and vapor. The vapors are heavier than air and can accumulate in high concentrations on the ground, in cavities, channels and cellars. Potentially explosive vapor/air mixtures may form. Toxic gases may form.
In case of fire may be liberated: hydrogen cyanide, phosphorus compounds, Carbon monoxide and carbon dioxide.

Protective equipment and precautions for firefighters:

Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.

Additional information:

Heating will lead to pressure increase: Danger of bursting and explosion. Use fine water spray to cool endangered containers.

Move undamaged containers from immediate hazard area if it can be done safely.

In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

Do not allow fire water to penetrate into surface or ground water.

Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

6. Accidental release measures

Personal precautions:

Eliminate all ignition sources if safe to do so. Provide adequate ventilation. Do not breathe vapors. Use a breathing protection against vapors/aerosol. Avoid contact with the substance. Wear appropriate protective equipment. Keep unprotected people away. Use a breathing protection against vapors/aerosol.

Environmental precautions:

Do not allow to enter drains, surface waters, basements or pits. Danger of explosion!

Prevent environmental discharge consistent with regulatory requirements.

Methods for clean-up:

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13).

Beware of reignition. Thoroughly clean surrounding area.

In case of greater quantities: Collect mechanically (use only explosion-proof equipment when pumping out).

Additional information:

Take precautionary measures against static discharges. Use only non-sparking tools.

Large amounts: Explosion protection required.

Concentrated vapors are heavier than air.

7. Handling and storage

Handling

Advices on safe handling:

Provide good ventilation and/or an exhaust system in the work area. Do not breathe vapors. Avoid contact with skin and eyes.

Wear appropriate protective equipment. When using do not eat, drink or smoke.

Guarantee sufficient ventilation during and after use, in order to prevent vapor accumulation.

Precautions against fire and explosion:

Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharges.

The vapors are heavier than air and can accumulate in high concentrations on the ground, in cavities, channels and cellars.

Use only non-sparking tools.

In partially filled containers explosive mixtures may form.

Storage

Requirements for storerooms and containers:

Keep only in the original container. Keep in a cool, well-ventilated place. Keep container tightly closed and dry.

Do not drop, drag or bang the container. Store containers in upright position. Do not allow the product to enter the ground.

Protect from heat and direct sunlight. Protect from frost.

Hints on joint storage:

Do not store together with combustible or self-igniting materials or any highly flammable solids.

Do not store together with alkalis or acids.

keep away from oxidizing agents.

Do not store together with organic peroxides.

Avoid contact with radical former.

Keep away from food and drinks.

8. Exposure controls / personal protection

Exposure guidelines

Occupational exposure limit values:

| CAS No. | Designation | Type | Limit value |
|----------|-------------|--------------------|---------------------------------|
| 100-42-5 | Styrene | USA: ACGIH: STEL | 20 ppm |
| | | USA: ACGIH: TWA | 10 ppm |
| | | USA: IDLH: TWA | 700 ppm |
| | | USA: NIOSH: STEL | 425 mg/m ³ ; 100 ppm |
| | | USA: NIOSH: TWA | 215 mg/m ³ ; 50 ppm |
| | | USA: OSHA: Ceiling | 200 ppm |
| | | USA: OSHA: TWA | 100 ppm |

Biological limit values:

| CAS No. | Designation | Type | Limit value | Parameter | Sampling |
|----------|-------------|-----------------------|---------------------|--------------------------------------|---------------------------------|
| 100-42-5 | Styrene | USA: ACGIH-BEI, urine | 150 mg/g creatinine | Mandelic acid + Phenylglyoxylic acid | end of exposure or end of shift |
| | | USA: ACGIH-BEI, urine | 20 µg/L | Styrene in urine | end of exposure or end of shift |

Engineering controls

Provide good ventilation and/or an exhaust system in the work area.

Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharges.

Large amounts: Explosion protection required.

See also information in chapter 7, section storage.

Personal protection equipment (PPE)

Eye/face protection: Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010 according to.

Skin protection: Flame retardant, antistatic and chemical resistant protective clothing.

Protective gloves according to OSHA Standard - 29 CFR: 1910.138.

Glove material: Fluororubber (Viton)

Breakthrough time: >480 min.

Unsuitable materials: nitrile rubber, neoprene.

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Respiratory protection:

Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded.

The filter class must be suitable for the maximum contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

Recommended respiratory protection articles: A/P2

General hygiene considerations:

Use only non-sparking tools. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Do not breathe vapors. Avoid contact with skin, eyes, and clothing.

When using do not eat, drink or smoke. Take off immediately all contaminated clothing.

Wash hands before breaks and after work. Safety shower and eye wash station should be easily accessible to the work area. Keep away from food, drink and animal feedingstuffs.

When using do not eat, drink or smoke.

Environmental exposure controls

Refer to 6.: Section "Environmental precautions".

9. Physical and chemical properties

Information on basic physical and chemical properties

| | |
|--|--|
| Appearance: | Form: liquid, viscous; viscous liquid Color: light yellow |
| Odor: | characteristic |
| Odor threshold: | No data available |
| pH: | not determined |
| Melting point/freezing point: | not determined |
| Initial boiling point and boiling range: | 293 °F |
| Flash point/flash point range: | 89.6 °F |
| Evaporation rate: | No data available |
| Flammability: | Flammable liquid and vapor. |
| Explosion limits: | LEL (Lower Explosion Limit): 1.20 Vol-% UEL (Upper Explosive Limit): 8.90 Vol-% |
| Vapor pressure: | at 68 °F: 6 hPa |
| Vapor density: | No data available |
| Density: | at 68 °F: 1.84 g/mL |
| Water solubility: | insoluble/slightly miscible |
| Partition coefficient: n-octanol/water: | not determined |
| Auto-ignition temperature: | not self-igniting |
| Thermal decomposition: | Decomposition temperature: not determined |
| Viscosity, dynamic: | not determined |
| Viscosity, kinematic: | not determined |
| Explosive properties: | Product is not explosive. Potentially explosive vapor/air mixtures may form. |
| Ignition temperature: | 896 °F |

Solvent content: 14 %
Solid content: 85.5 %
Additional information: Vapor density: not determined

10. Stability and reactivity

Reactivity: Flammable liquid and vapor.
Vapors may form explosive mixtures with air.

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions:
Heating will lead to pressure increase: Danger of bursting and explosion.
Potentially explosive vapor/air mixtures may form.
Polymerization along with heat production.

Conditions to avoid: Keep away from heat sources, sparks and open flames.
Protect from direct sunlight.

Incompatible materials: Reacts with peroxides and radical formers.
Reacts with acids, alkalis, oxidizing agents.

Hazardous decomposition products:
In case of fire may be liberated: phosphorus compounds, hydrogen cyanide, Carbon monoxide and carbon dioxide. Toxic gases may form.

Thermal decomposition: Decomposition temperature: not determined

11. Toxicological information

Toxicological tests

Acute toxicity:

| | |
|--|----------------------------|
| LD50 Rat, oral (Styrene): | > 5,000 mg/kg |
| LD50 Rat, dermal (Styrene): | > 2,000 mg/kg |
| LC50 Rat, inhalative (Styrene): | 11.8 mg/L/ 4h |
| LC50 Mouse, inhalative (Styrene): | 9.5 mg/m ³ /4 h |
| LD50 Rat, oral (Trizinkbis(orthophosphat): | > 5,000 mg/kg |

| | |
|------------------------|---|
| Toxicological effects: | <p>The statements are derived from the properties of the single components. No toxicological data is available for the product as such.</p> <p>Acute toxicity (oral): Based on available data, the classification criteria are not met.</p> <p>Acute toxicity (dermal): Based on available data, the classification criteria are not met.</p> <p>Acute toxicity (inhalative): Based on available data, the classification criteria are not met.</p> <p>Skin corrosion/irritation: Skin Irritation - Category 2 = Causes skin irritation.</p> <p>Serious eye damage/irritation: Eye Irritation - Category 2A = Causes serious eye irritation.</p> <p>Sensitisation to the respiratory tract: Lack of data.</p> <p>Skin sensitisation: Lack of data.</p> <p>Germ cell mutagenicity/Genotoxicity: Lack of data.</p> <p>Carcinogenicity: Lack of data.</p> <p>Reproductive toxicity: Reproductive toxicant - Category 2 = Suspected of damaging the unborn child.</p> <p>Effects on or via lactation: Lack of data.</p> <p>Specific target organ toxicity (single exposure): Lack of data.</p> <p>Specific target organ toxicity (repeated exposure): Specific Target Organ Toxicity (Repeated Exposure) - Category 1 = Causes damage to organs through prolonged or repeated exposure.</p> <p>Aspiration hazard: Lack of data.</p> |
| Other information: | <p>The product has not been tested. The statement is derived from the properties of the single components.</p> <p>Styrene:</p> <p>Affects the central nervous system, possible disturbances from: 50 mL/m³.</p> <p>DFG 2010 (Germany): Substance with a carcinogenic and genotoxic effect from which there is not to be expected an important contribution to the risk of cancer for persons as far as the AGW-value (German WEL) is observed. Classified according to IARC: 2B (possible for humans).</p> <p>Harmful: danger of serious damage to health by prolonged exposure through inhalation.</p> <p>Chronic uptake results in damage of: nervous system, lung.</p> |

Symptoms

In case of inhalation: depression of central nervous system.

Symptoms: shortage of breath, drowsiness, headache, dizziness, fatigue, unconsciousness.

Reaction time and coordination may be impaired.

If higher concentrations occur: Pulmonary edema is possible.

Other symptoms: nausea, Sweating, Mucous membrane irritation, cough, vomiting.

Symptoms may occur with delay.

In case of ingestion: If swallowed or in the event of vomiting, risk of entering the lungs.

General remarks

Polyester resin: May produce an allergic reaction.

12. Ecological information

Ecotoxicity

Aquatic toxicity: Harmful to aquatic life with long lasting effects.
 Information about Zinc phosphate:
 Algae toxicity:
 EC50 Desmodesmus subspicatus (green algae): 0.14 mg/L/72h.
 Daphnia toxicity:
 EC50 Daphnia magna (Big water flea): 0.04-0.86 mg/L/48h.
 Fish toxicity:
 LC50 Oncorhynchus mykiss: 0.14 - 2.6 mg/L/48h.
 Information about Styrene:
 Does not dissolve in water. Floats on water surface.

Mobility in soil

No data available

Persistence and degradability

Analytical method: BSD
 Degree of elimination: Styrene >= 60%
 Evaluation text: Product is highly biodegradable.
 Further details: Information about Styrene:
 Biodegradation: 71 %/ 28 d. Product is readily biodegradable.
 Does not dissolve in water. Floats on water surface.

Additional ecological information

Volatile organic compounds (VOC):
 252 g/L
 General information: Do not allow to penetrate into soil, waterbodies or drains.

13. Disposal considerations

Product

Recommendation: Incinerate as hazardous waste according to applicable local, state, and federal regulations.
 Do not dispose of with household waste.

Package

Recommendation: Handle empty containers with care. Incineration may cause explosion. Dispose of waste according to applicable legislation.
 Non-contaminated packages may be recycled.

14. Transport information

UN number

ADR/RID, IMDG, IATA-DGR:
 UN 1866

UN proper shipping name

ADR/RID, IMDG, IATA-DGR:

UN 1866, RESIN SOLUTION

Transport hazard class(es)

ADR/RID:

Class 3, Code: F1

IMDG:

Class 3, Subrisk -

IATA-DGR:

Class 3



Packing group

ADR/RID, IMDG, IATA-DGR:

III

Environmental hazards

Marine pollutant:

no

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

No data available

USA: Department of Transportation (DOT)

Identification number:

UN1866

Proper shipping name:

UN 1866, RESIN SOLUTION

Hazard class or Division:

3

Packing Group:

III

Labels:

3

Special Provisions:

B1, B52, IB3, T2, TP1

Packaging – Exceptions:

150

Packaging – Non-bulk:

173

Packaging – Bulk:

242

Quantity limitations – Passenger aircraft / rail:

60 L

Quantity limitations – Cargo only:

220 L

Vessel stowage – Location:

A



Sea transport (IMDG)

| | |
|-------------------------------------|--|
| UN number: | UN 1866 |
| Proper shipping name:: | UN 1866, RESIN SOLUTION |
| Class or division, Subsidiary risk: | Class 3, Subrisk - |
| Packing Group: | III |
| EmS: | F-E, S-E |
| Special Provisions: | 223 955 |
| Limited quantities: | 5 L |
| Excepted quantities: | E1 |
| Package - Instructions: | P001, LP01 |
| Package - Provisions: | PP1 |
| IBC - Instructions: | IBC03 |
| IBC - Provisions: | - |
| Tank instructions - IMO: | - |
| Tank instructions - UN: | T2 |
| Tank instructions - Provisions: | TP1 |
| Stowage and handling: | Category A. |
| Properties and observations: | Miscibility with water depends upon the composition. |
| Marine pollutant: | no |
| Segregation group: | none |

Air transport (IATA)

| | |
|---|---|
| UN/ID number: | UN 1866 |
| Proper shipping name:: | UN 1866, RESIN SOLUTION |
| Class or division, Subsidiary risk: | Class 3 |
| Packing Group: | III |
| Hazard label: | Flamm. liquid |
| Excepted Quantity Code: | E1 |
| Passenger and Cargo Aircraft: Ltd.Qty.: | Pack.Instr. Y344 - Max. Net Qty/Pkg. 10 L |
| Passenger and Cargo Aircraft: | Pack.Instr. 355 - Max. Net Qty/Pkg. 60 L |
| Cargo Aircraft only: | Pack.Instr. 366 - Max. Net Qty/Pkg. 220 L |
| Special Provisions: | A3 |
| Emergency Response Guide-Code (ERG): | 3L |

15. Regulatory information

National regulations - U.S. Federal Regulations

Product: All ingredients of this product are listed on the TSCA inventory.

Styrene: Carcinogen Status:
IARC Rating: Group 2A
OSHA Carcinogen: not listed
NTP Rating: listed

Clean Air Act:
CAA Hazardous Air Pollutants: yes
CAA SOCM Chemical: yes

Clean Water Act:
CWA Hazardous Substances: RQ 1000 lbs.

Other Environmental Laws:
CERCLA: RQ 1000 lbs.
RCRA Groundwater Monitoring: Methods 8020, 8240 / PQL 1, 5
SARA Title III - Section 313, Toxic Release: Conc. 0.1% / Threshold Standard

NIOSH Recommendations:
Occupational Health Guideline: 0571

National regulations - U.S. State Regulations

Styrene: California Proposition 65: cancer

Delaware Air Quality Management List:
DRQ: 1000 - RQ State: Federal Regulations Apply

Idaho Air Pollutant List:
Title 585 -- AAC: 1 -- EL: 6.67 -- WEL: - Title 586 -

Maine Hazardous Air Pollutants:
Me 2005: HAP - Hap Rpt: 2000

Massachusetts Haz. Substance codes: 1,2,4,5,6,9 *E*C* F7 F8

Michigan Critical Material:
Note: 2 - CMR#: 27 - Parameter#: 00100-42-5 - Annual Usage Parameter: 100

Minnesota Haz. Substance:
Codes: ANO -- Ratings: 9.63 -- Status: Air Pollutant. Carcinogen. Title III. TRI.

New Jersey RTK Hazardous Substance:
DOT 2055 - Sub No.: 1748 - TPQ: -

New York List of Hazardous Substances:
RQ -- Air: 1000 - RQ -- Land: 1 - Note: No Note Associated with this chemical.

Pennsylvania Haz. Substance code: E

Washington Air Contaminant:
TWA: 50 ppm / 215 mg -- STEL: 100 ppm / 425 mg

National regulations - Canada

Styrene: DSL: listed

Zinc phosphate: DSL: listed

National regulations - Great Britain

Hazchem-Code: •3Y

16. Other information

Text for labeling:

Contains 12.5 - 25 % Styrene, 1 - 5 % Zinc phosphate.

Contains Styrene.

Hazard rating systems:



NFPA Hazard Rating:

Health: 2 (Moderate)

Fire: 2 (Moderate)

Reactivity: 0 (Minimal)

HMIS Version III Rating:

Health: 2 (Moderate) - Chronic effects

Flammability: 2 (Moderate)

Physical Hazard: 0 (Minimal)

Personal Protection: X = Consult your supervisor

| | | |
|-----------------|---|---|
| HEALTH | * | 2 |
| FLAMMABILITY | | 2 |
| PHYSICAL HAZARD | | 0 |
| | | X |

Abbreviations and acronyms:

Acute Toxicity: Acute toxicity
 ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
 ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
 Aquatic toxicity - acute: Hazardous to the aquatic environment - acute
 Aquatic toxicity - chronic: Hazardous to the aquatic environment - chronic
 AS/NZS: Australian Standards/New Zealand Standards
 Aspiration Toxicity: Aspiration toxicity
 CAS: Chemical Abstracts Service
 CFR: Code of Federal Regulations
 CLP: Classification, Labelling and Packaging
 DMEL: Derived minimal effect level
 DNEL: Derived no-effect level
 EC: European Community
 EC50: Effective Concentration 50%
 EmS: Emergency Response Procedures for Ships Carrying Dangerous Goods
 EN: European Standard
 EQ: Excepted quantities
 Eye Irritation: Eye irritation
 Flammable Liquid: Flammable liquid
 IARC: International Agency for Research on Cancer
 IATA: International Air Transport Association
 IATA-DGR: International Air Transport Association – Dangerous Goods Regulations
 IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
 IMDG Code: International Maritime Dangerous Goods Code
 IMO: International Maritime Organization
 LC50: Median lethal concentration
 LD50: Lethal dose 50%
 LEL: Lower Explosion Limit
 MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
 M-factor: Multiplication factor
 OEL: Occupational Exposure Limit Value
 OSHA: Occupational Safety and Health Administration
 PBT: Persistent, bioaccumulative and toxic
 PNEC: Predicted no-effect concentration
 Reproductive toxicant: Reproductive toxicity
 RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
 Skin Irritation: Skin irritation
 STOT RE: Specific target organ toxicity - repeated exposure
 STOT SE: Specific target organ toxicity - single exposure
 TLV: Threshold Limit Value
 TRGS: Technical Rules for Hazardous Substances
 TSCA: Toxic Substance Control Act
 UN: United Nations
 vPvB: Very persistent and very bioaccumulative
 WEL: Workplace Exposure Limit

Reason of change:

Changes in section 8: Occupational exposure limit values

Date of first version:

10/26/1994

Department issuing data sheet

Contact person:

see section 1: Department responsible for information



SAFETY DATA SHEET

according to 29 CFR 1910.1200 and ANSI standard Z400.1-2010

636K9 - Fast Curing Putty-Akemi

Material number 636K 9

Revision date: 3/23/2025

Version: 13.4

Replaces version: 13.3

Language: en-US

Date of print: 9/2/2025

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The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.