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FORMEROL® technology is protected by the
following international patent applications:
US Patent Application 10/517,057 and related
filings in Europe, China and India.
US Patent Application 11/921,006 and related
filings in Europe, Japan, China and India.
US Patent Application 11/921,005 and related
filings in Europe, Japan, China and India.

Section 1: Product and Company Identification

Product name	sugru® / FORMEROL® F.10
Use	Room Temperature Mouldable silicone
Supplier	sugru, Inc. c/o HOVS, 38120 Amrhein, Livonia, MI 48150, USA
USA Contact number	0877 990 9888
E-mail contact	support@sugru.com
Website	www.sugru.com
Manufacturer	FormFormForm Ltd, Unit 2, 47-49 Tudor Road, London E9 7SN.
UK Contact number	+44 (0) 207 7399446 (UK business hours)

Section 2. Hazards identification

2.1 Emergency Overview

Signal word	None
Appearance	Highly colored paste
Hazards	There are no identified health risks associated with the product. However, the product contains substances whose health effects have not been well-investigated, and therefore for industrial or commercial use it should be handled with caution.

2.2 OSHA regulatory status

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

2.3 Potential Health effects

Eye	May cause irritation
Skin	Not expected to cause irritation
Inhalation	Inhalation is not an expected route of exposure for this product.
Ingestion	Small amounts are not expected to be acutely harmful.
Chronic effects	No information available.

2.4 Potential Environmental effects

The product is not classified for environmental effects. However, the product contains substances whose environmental effects have not been well-investigated, and therefore it should be disposed of with caution.

Section 3. Composition/information on ingredients

Declarable components	Conc (wt%)	CAS No.
None		
Other components		
Polysiloxane	25 to 50	
Talc	25 to 50	18407-96-6
Additives	25 to 50	

Section 4. First-aid measures

Eye contact	In case of contact with eyes, irrigate with water for 15 minutes, occasionally lifting eyelids. Remove any contact lenses if easy to do. Get prompt medical advice if irritation occurs.
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Skin contact	Remove contaminated clothing and wash affected area with soap and water. Get medical attention if irritation or other symptoms occur. Launder contaminated clothing before re-use.
Inhalation	If inhalation of the product is suspected, remove exposed person to fresh air, and give rest. If the patient continues to feel unwell, get prompt medical attention.
Ingestion	If swallowed, wash out mouth thoroughly and give water to drink. Get prompt medical attention if symptoms occur. Do not induce vomiting, unless instructed by medical personnel.
Note to physicians	Treat symptoms as they occur.

Section 5. Fire-fighting measures

5.1 Flammable properties

5.2 Extinguishing media

Suitable General fire-extinguishing agents such as water, carbon dioxide, and dry chemicals.

Unsuitable Not available.

5.3 Protection of fire-fighters

Specific hazards arising from the chemical

The product is not flammable, but will decompose if involved in a fire, producing smoke, and toxic fumes and gases.

Protective equipment and precautions

Remove containers from fire or cool them with water spray. Firefighters should wear self-contained breathing apparatus and full protective clothing.

Section 6. Accidental release measures

6.1 Personal precautions

For large-scale spills, ensure full personal protection is worn. Keep unauthorised personnel from the spillage area. Ventilate area. Follow prescribed procedures for responding to large spills and reporting to authorities.

For recommended personal protective equipment, see Section 8. For disposal considerations, see Section 13.

Environmental precautions

Prevent product or run-off from clean-up operations from entering water courses or drainage system.

Method for cleaning up

Carefully sweep up or collect product, and place in suitable container for disposal. Wash contaminated surfaces with water, and collect washings for safe disposal.

Section 7. Handling and storage

7.1 Information for safe handling

For industrial or commercial use, avoid contact with skin and eyes. Wear protective clothing as in Section 8. Good general ventilation is recommended.

7.2 Storage

Keep containers in a cool, dry place away from direct sunlight. Store in sealed containers. Keep containers closed when not in use.

Section 8. Exposure controls/personal protection

8.1 Exposure Guidelines

US limit values

Talc (containing no asbestos fibres): ACGIH TWA 2 mg/m³ (respirable); NIOSH TWA 2 mg/m³ (respirable).

Engineering controls

For industrial and commercial use, good general ventilation is recommended.

8.3 Personal protective equipment (PPE)

The need for personal protective equipment should be based on a workplace risk assessment for the particular use. For industrial use, avoid skin and eye contact by wearing chemical resistant gloves (eg nitrile, neoprene, PVC) and safety goggles. Where more extensive contact may occur, wear suitable protective clothing (eg overalls, boots).

Wear respiratory protective equipment if exposure to dusts or vapours is possible. PPE should be to national standards. Consult manufacturers concerning breakthrough times.

After work, wash hands before smoking, eating, or drinking. P 2 / 4

Section 9. Physical and chemical properties

Appearance	Highly coloured paste
Odour	Characteristic
Odour threshold	Not available
pH	Not available
Melting/freezing point	Not available
Initial boiling point/range	Not available
Flash point	Not available
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Flamm. or expl. limits	Not available
Vapour pressure	Not available
Vapour density	Not available
Relative density	1.25 cubic cm
Solubilities	Not available
Partition coeff. (log Kow)	Not available
Auto-ignition temp.	Not available
Decomposition temp.	Starts at 210 degrees C / 410 F
Viscosity	Not available

Section 10. Stability and reactivity

10.1 Reactivity	Not available
10.2 Possibility of hazardous reactions	Not available
10.3 Chemical stability	Product is supplied in sealed containers. Opening the container and exposing the product to air will cause the product to self-react to form a cured polymer. See packs for expiry date. Product used after the expiry date marked on the pack may not perform as well as product used within the specified time.
10.4 Conditions to avoid	Avoid prolonged storage at high temperature or exposure to sunlight.
10.5 Incompatible materials	Acids, bases, and oxidising agents.
10.6 Hazardous decomposition products	The product will polymerise on exposure to air. The polymerisation reaction is not hazardous.

Section 11. Toxicological information

The toxicology of the mixture has not been investigated. The following refers to uncured product. The cured product is not expected to have toxicological effects.

Acute toxicity	From assessment of the ingredients, the product is not expected to be harmful by oral or dermal routes. Inhalation is not expected.
Skin corrosion/irritation	Some ingredients have been identified with irritant properties. From extensive experience in use, the product does not have skin irritant properties.
Serious eye damage / irritation	The product may cause eye irritation.
Respiratory or skin sensitisation	No ingredient has been identified as having sensitising properties.
Germ cell mutagenicity	Not available
Carcinogenicity	Not available
Reproductive toxicity	Not available
STOT-single exposure	Not available
STOT-repeated exposure	Not available
Aspiration hazard	Not available

Section 12. Ecological information

Toxicity	Not available.
Persistence/degradability	The product will self-react to form a polymer in the environment. The polymer is expected to persist in the environment.
Bioaccumulation potential	No data available.
Mobility in environmental media	The polymer is insoluble in water and involatile, and will persist in the soil compartment.
Other adverse effects	Not available.

Section 13. Disposal considerations

Incineration or landfill are the recommended methods of disposal for the product, or the polymer it forms on reaction with air. Dispose of contaminated product, empty containers and materials used in cleaning up spills or leaks in accordance with current local, state, or federal regulations. Local regulations may be more stringent than federal requirements.

Section 14. Transport information

14.1 Basic shipping description

Identification number Not classified according to US DOT.
Proper shipping name Not applicable
Hazard class Not applicable
Packing group Not applicable
Environmental hazards Not applicable

14.2 Additional information Not available

Section 15. Regulatory information

US Federal regulations

Ingredient	Section 302 (EHS TPQ)	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA Code	CAA 112(r) TQ
None	No	No	No	No	No	No

OSHA: Hazard Communication Rule, 29 CFR, 1910.1200.

EPCRA (Emergency Planning and Community Right-to-Know Act): Section 302: Extremely Hazardous Substances (EHS), Threshold Planning Quantity (TPQ) in 40 CFR 355; EPCRA Section 304 gives EHS reportable quantities (RQ); Section 313 Toxic Chemicals, subject to annual reporting (40 CFR 372). CERCLA (Comprehensive Environmental Response Compensation and Liability Act), Hazardous Substances; accidental release of substances above the Reportable Quantity (RQ) listed requires reporting; local reporting requirements may be in force.

RCRA Hazardous Wastes: RCRA P and U lists (40 CFR 261.33).

CAA Substances for Accidental Release Prevention: Clean Air Act 112 (r), Hazardous Air Pollutants; Threshold Quantities (TQ).

Other regulatory Not available

Section 16: Other information

Revisions This SDS is the first version in US format.

Abbreviations ACGIH, US American Conference of Governmental Industrial Hygienists; NIOSH, US National Institute for Occupational Safety and Health; REL, recommended exposure limit; STOT RE, specific organ toxicity repeated exposure; STOT SE, specific target organ toxicity single exposure; TWA, time-weighted average.

References Annex VI of EU Regulation 1272/2008 on Harmonised Classification and Labelling for Certain Hazardous Substances.
Existing Chemical Substances Information System (ESIS) available at the European Chemical Bureau website: <http://ecb.jrc.ec.europa.eu/esis/>.
Supplier safety data sheets.
Guide to Occupational Exposure Values; ACGIH, 2009.