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FORMEROL® technology is protected by the
following international patents and applications:

European Patent No. 2089465 B1
Chinese Patent No. 200780050641.6
Macau Patent No. J/001226
US Patent Application No. 12/517,057
Indian Patent Application No. 3946/DELNP/2009

SECTION 1: Identification

1.1 Product identifier used on the label	Sugru (all colours)
1.2 Other identification	Not available.
1.3 Recommended use of the chemical and restrictions on use	Mouldable self-adhesive silicone. Uses advised against: not available.
1.4 Manufacturer, importer, or other responsible party	Sugru, Inc. c/o HOVS, 38120 Amrhein, Livonia, MI 48150, USA 877-990-9888 hello@sugru.com FormFormForm Ltd, Unit 2, 47-49 Tudor Road, London E9 7SN. +44 (0) 20 7998 0022 (UK business hours)
Manufacturer	
1.5 Emergency phone number	+44 (0) 20 7998 0022 (UK business hours)

SECTION 2. Hazard(s) identification

2.1 Classification of the chemical in accordance with paragraph (d) of § 1910.1200	Not hazardous according to the OSHA Hazard Communication Standard 2012.
2.2 Symbols, signal word, hazard and precautionary statements	
Pictogram	None.
Signal word	None.
Hazard statements	None.
Precautionary statements	None.
2.3 Other hazards	Not available.
2.4 Statement of unknown hazard	Ca. 40% of the mixture consists of ingredients of unknown acute toxicity.

Section 3. Composition/information on ingredients

3.1 Mixtures

Declarable components	Conc (wt%)	CAS No.
Methyltris(methylethylketoxime) silane	1 to 5	22984-54-9
3-Aminopropyltriethoxysilane	0.01 to 1	919-30-2
Other components		
Ketoxime functional polydimethylsiloxane	25-50	NA
Talc	25-50	14807-96-6
Additives	25-50	Trade secret

NA: not available

Section 4. First-aid measures

4.1 Description of first aid measures

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.
Skin	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.
Eye	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.
Ingestion	If swallowed, give water to drink. Get prompt medical attention if symptoms occur. Do not induce vomiting, unless instructed by medical personnel.

4.2 Most important symptoms/effects, acute and delayed May cause sensitization by skin contact in some individuals.

4.3 Indication of immediate medical attention and special treatment needed Treat symptoms as they occur.

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable	General fire-extinguishing agents such as water, carbon dioxide, and dry chemicals.
Unsuitable	Not available.

5.2 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.

5.3 Special protective equipment for fire-fighters 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, protective equipment and emergency procedures 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.

6.2 Method and material for containment and cleaning up Prevent product or run-off from clean-up operations from entering water courses or drainage system.
Carefully sweep up or collect product, and place in suitable container disposal. Wash contaminated surfaces with water, and collect washings for safe disposal.

Section 7. Handling and storage

7.1 Precautions 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 Conditions for safe storage, including any incompatibilities 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 Control parameters

Exposure limits

Talc, containing no asbestos fibers: ACGIH TLV TWA: 2 mg/m³ (respirable fraction, containing <1% crystalline silica); OSHA PEL: TWA 20 mppcf (containing <1% quartz); NIOSH REL: TWA 2 mg/m³ (respirable dust, containing <1% quartz).

Barium sulphate: ACGIH TLV: TWA 5 mg/m³ (inhalable fraction); OSHA PEL: TWA 15 mg/m³ (total dust), 5 mg/m³ (respirable fraction); NIOSH REL: TWA 15 mg/m³ (total dust), 5 mg/m³ (respirable fraction).

Methyl ethyl ketoxime (MEKO): AIHA WEEL TWA: 10 ppm (dermal sensitization).

8.2 Engineering controls

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

8.3 Individual protection measures

For industrial and commercial use, the need for personal protective equipment should be based on a workplace risk assessment for the particular 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).

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

After work, wash hands before smoking, eating, or drinking.

Section 9. Physical and chemical properties

9.1 Information on basic 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 applicable
Flamm. or expl. limits	Not available
Vapour pressure	Not available
Vapour density	Not available
Relative density	Not available
Solubilities	Insoluble in water
Partition coeff. (log Kow)	Not available
Auto-ignition temp.	Not available
Decomposition temp.	Not available
Viscosity	Not available

9.2 Other information Not available

Section 10. Stability and reactivity

10.1 Reactivity Not available

10.2 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. The polymerisation reaction is not hazardous, but produces a small quantity of methyl ethyl ketoxime (MEKO)

10.3 Possibility of hazardous reactions Not available

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 Not available

Section 11. Toxicological information**11.1 Information on toxicological effects**

Acute toxicity	Based on available data, the classification criteria are not met.
Skin corrosion/irritation	Based on available data, the classification criteria are not met. Some ingredients present at low concentration have been identified with irritant properties.
Serious eye damage / irritation	Based on available data, the classification criteria are not met. Some ingredients present at low concentration have been identified with irritant properties.
Respiratory or skin sensitization	Based on available data, the classification criteria are not met. Some ingredients present at low concentration have been identified with irritant properties. May cause sensitization in some individuals.
Germ cell mutagenicity	Not classified due to lack of data
Carcinogenicity	Not classified due to lack of data
Reproductive toxicity	Not classified due to lack of data
STOT-single exposure	Not classified due to lack of data
STOT-repeated exposure	Not classified due to lack of data
Aspiration hazard	Not classified due to lack of data

Section 12. Ecological information

12.1 Ecotoxicity	Not available.
12.2 Persistence and degradability	In the environment, the product will react with moisture to form a polymer, which is expected to persist in the environment.
12.3 Bioaccumulative potential	Not available.
12.4 Mobility in soil	The polymer is insoluble in water and involatile, and will persist in the soil compartment.
12.5 Other adverse effects	Not available.

Section 13. Disposal considerations

13.1 Waste treatment methods	Incineration and landfill are the recommended methods of disposal for the product, or the polymer it forms on reaction with moisture. Dispose of contaminated product, empty containers and materials used in cleaning up spills or leaks in accordance with current federal and local regulations. Chemical residues from industrial use generally count as special waste.
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Section 14. Transport information

14.1 UN Number	Not classified as dangerous goods for transport.
14.2 UN proper shipping name	Not applicable.
14.3 Transport hazard class(es)	Not applicable.
14.4 Packing group	Not applicable.
14.5 Environmental hazards	Not classified as environmentally hazardous for transport.
14.6 Special precautions for user	Not available.
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.

Section 15. Regulatory information**15.1 Safety, health and environmental regulations specific for the substance or mixture**

Ingredient	Section 302 (EHS TPQ)	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA Code	CAA 112(r) TQ
None						

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, American Conference of Governmental Industrial Hygienists; AIHA, American Industrial Hygiene Association; NIOSH, US National Institute for Occupational Safety and Health; OSHA, US Occupational Safety and Health Administration; PEL, permitted exposure limit; REL, recommended exposure limit; STOT RE, specific organ toxicity repeated exposure; STOT SE, specific target organ toxicity single exposure; TWA, time-weighted average; WEEL, Workplace Environmental Exposure Level.
References	Search for chemicals; available at the European Chemicals Agency website: http://echa.europa.eu/ . List of Lists; Consolidated List of Chemicals Subject to the Emergency Planning and Community Right-To-Know Act (EPCRA), Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and Section 112(r) of the Clean Air Act; US EPA; October 2012. Guide to Occupational Exposure Values; ACGIH, 2013.
Basis of classification	The substance is classified on the basis of available information on the ingredients and expert judgement of the product.