

Safety Data Sheet (MSDS)

1、 Product and company identification

Commercial product name : Silicone Rubber
HL5453 (5422/5432/5442/5443/5452/5453/5462/5463/5472/5473/5482)
Manufacture /supplier : DONG GUAN HAIZHILAN SILICONE TECHNOLOGY CO,LTD
Address : No. 49 Wanbu Road, Changping, Dongguan City
Information Phone Number : (0086)-769-8269 0322
Fax : (0086)-769-8353 3003
Application : Produce common silicon rubber products and other parts, ordinary buttons and silicone rubber gel, especially suitable to add color products, and apply to moulding process

2、 Hazards identification

GHS Classification

Eye irritation Category 2B

Skin Corrosion/irritation Category 3

Appearance/ Odour: Translucent

Fire/explosion hazards: Flammable in high temperature

NEPA Classification (Range 0~4) : Health hazard=2 Fire hazard=1 Reactivity=1

Min/Nil=0 Low=1 Moderate=2 High=3 Extreme=4

Signal Word: WARNING

Hazard warning information

H313 May cause mild skin irritation

H320 May cause eye irritation

Hazard precautionary measure

Prevention:

P264 Wash...thoroughly after handling

Response:

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes, Remove contact lenses. If present and easy to do. Continue rinsing.

P332+P313 If skin irritation occurs: Get medical advice/attention

P337+P313 If skin irritation persists: Get medical advice/attention

3、 Composition/information on ingredients

Chemical characterization : Mixture

Description

Mixture: consisting of the following components

Ingredient Name	CAS NO.	Content (%)
Raw rubber(methylvinyl poly siloxane)	68037-87-6	55~75
Fumed silica	112945-52-5	20~42
polydimethylsiloxane	63148-62-9	4~12

4、 First-aid measures

Description of first aid measures

After Inhalation

- If combustion products are inhaled remove from contaminated area
- Other measures are usually unnecessary

After skin touch

- Immediately remove all contaminated clothing, including footwear
- Flush skin and hair with running water (and soap if available)
- Seek medical attention in event of irritation

After eyes touch

- Wash out immediately with water
- Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids
- If irritation continues, Seek medical attention
- Remove of contact lenses after an eye injury should only be undertaken by skilled personnel

After swallowing

- Immediately gives a glass of water
- First aid is not generally required, if in doubt, contact a doctor

For doctor's information

Treat symptomatically

.

5、 Fire-fighting Measures

Extinguishing media

Suitable extinguishing agents

- Water spray or fog
- Foam
- Dry chemical powder
- BCF(Where regulations permit)
- Carbon dioxide

For safety reason unsuitable extinguishing agents

None

Special hazards arising from the substance or mixture

- On combustion, may emit toxic of carbon monoxide(CO)
- Combustion products include: carbon dioxide(CO₂), Other pyrolysis products typical of burning organic material
- May emit acrid smoke
- May emit corrosive fumes

Fire incompatibility

Avoid contamination with oxidizing agent

Advice for firefighters

- Wear breathing apparatus plus protective gloves
- Use water delivered as a fine spray to control fire and cool adjacent area.
- DO NOT approach containers suspected to be hot.

Additional information

None

6、 Accidental release measures

Personal precautions, protective equipment and emergency procedures

No information

Environmental precautions

Do not allow product to reach sewage system or any water course
Inform respective authorities in case of seepage into water course or sewage system

Methods and material for containment and cleaning up

Minor spills

- Remove all ignition sources
- Clean up all spills immediately
- Avoid breathing vapours and contact with skin and eyes

Major spills

- Remove all ignition sources
- Clean up all spills immediately
- Avoid breathing vapours and contact with skin and eyes

Major spills

- Clear area of personnel and move upwind
- Control personal contact by use protective equipment and dust respirator
- Prevent, by and means available, spillage from entering drains or water courses
- Recover product wherever possible
- If DRY: Use dry clean up procedures and avoid generating dust.

Reference to other sections

- See section 7 for information on safe handling
- See section 8 for information on personal protection equipment.
- See section 13 for disposal information

7、 Handling and storage

Handling

Precautions for safe handling

- Avoid all personal contact, including inhalation
- Wear protective clothing when risk of exposure occurs
- Prevent concentration in hollows and sumps
- Avoid contact with with incompatible materials
- Always wash hands with soap and water after handling
- DO NOT cut, drill, grind or weld such containers

Information about fire and explosion protection

Avoid reaction with oxidizing agents

Conditions for safe storage, including and incompatibilities

Storage

- Storage in original containers
- Keep containers securely sealed
- Stored in a cool, dry, well-ventilated area
- Stored away from incompatible materials and foodstuff containers

Information about storage in one common storage facility

Stored away from strong oxidizing agent

8、 Exposure controls and personal protection

Information about design of technical facilities

No further data, see section 7

Control parameters

Exposure controls: N/A

Emergency exposure limits: N/A

Ingredients with limit values that require monitoring at the workplace: See exposure controls

Personal protective equipment

Protection of hands

Protection gloves

Material of gloves

The selection of the suitable gloves does not only depend on material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed information on basic physical and chemical properties

Eye protection

Chemical goggles

Respirator protection

Respirator

Body protection

Protective clothing

9、 Physical and chemical properties

Information on basic physical and chemical properties

General information

Appearance : Translucent

Form : Solid state

Colour : Translucent

Odour : odourless

Safety parameters

Property:

Melting point / melting range : not applicable

Boiling point / boiling range : not applicable

Flash point : not applicable

Ignition temperature : not applicable

Lower explosion limit (LEL) : not applicable

Upper explosion limit (UEL) : not applicable

Water solubility / miscibility : virtually insoluble

10、 Stability and reactivity

Reactivity: Stable

Chemical Stability

Thermal decomposition/condition to be avoided

No decomposition if used and stored according to specifications

Possibility of hazardous reaction: Avoid reaction with oxidising agents

Incompatible materials

Oxidising agents

Hazardous decomposition products

Formation of toxic gases is possible during heating or in case fire
Carbon monoxide(CO),Carbon dioxide(CO₂),other pyrolysis products typical of burning organic material

11、 Toxicological information

Information on toxicological affects

Acute Toxicity

LD/LC50 values relevant for classification

LD50: Not available, Refer to individual constituents

LC50: Not available, Refer to individual constituents

Primary irritant effect

On the skin

Skin contact with the material may be harmful, systemic effects may result following absorption

On the eyes

The material may cause eye irritation in a substantial number of individuals and or may produce significant ocular lesions which are present 24 hours or more after instillation into the eyes of experimental animals

Swallowed

- Swallowing of the liquid may cause aspiration of vomit into the lungs with the risk of haemorrhaging, pulmonary oedema, progressing to chemical pneumonitis
- Accidental ingestion of the material may be damaging to the health of the individual

Sensitization: No sensitizing effect known

Additional toxicological information

The product is not subject to classification according to the calculation methods of the General EU Classification Guidelines for Preparations as issued in the latest version.

12、 Ecological information

12.1 Environmental Data

Not determined

12.2 Mobility in soil and water: High

12.3 Persistence/Biodegradability

Air/Low

12.4 Ecotoxicity Data

Aquatic Toxicity: Not determined

Bioconcentration: Not determined

Atmospheric environment: Not determined

Additional ecological information:

Not known to be hazardous to water.

Do not allow product to reach ground water, water course or sewage system.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

13、 Disposal considerations

Waste treatment methods

Recommendation

Must be special treated adhering to official regulations.

Smaller quantities can be made according to official regulations.

Uncleaned packaging

Disposal must be made according to official regulations.

Non contaminated packaging may be reused.

14、 Transport information

14.1 US DOT & CANADA TOG SURFACE

Valuation: Not regulated for transport

14.2 Transport by sea IMDG-Code

Valuation: Not regulated for transport

14.3 Air transport ICAO-TI/IATA-DGR

Valuation: Not regulated for transport

15、 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

International regulation/Ordinances

Requirements of Hazard and safety information on the label

Disposal of chemicals should comply with the general safety regulations.

EU directives / regulations

This product need follow t6he related regulations about dangerous substances regulations of EU directives

Code letter and hazard designation of product

N/A

Chemical safety assessment

EEC classification

Risk Codes

Risk Phrases

R10

Flammable

Safety Codes

Safety Phrases

S24

Avoid contact with skin

S25

Avoid contact with eyes

S26

In case of contact with eyes, rinse with plenty of water and contact, Doctor or Poisons
Information Centre

S37

Wear suitable gloves

S39

Wear eye/face protection

16. Glossary of Terms

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.