

SAFETY DATA SHEET

Safety Data Sheet according to OSHA HazCom Standard (2012) requirements
Version: 5

GHS.USA.EN/Sumica
Issued on: 12-Sep-2016

Product: Sumica™ Silver Flash 4152

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1 Product identifier**
- Trade name** : Sumica™ Silver Flash 4152
Chemical name : Mica based pearlescent pigment
Proper Shipping Name : Not applicable
Chemical Formula : Not applicable
CAS No. : Refer section 3.1
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
- Identified use(s)** : Coloring agent
Uses advised against : Not known
- 1.3 Details of the supplier of the safety data sheet**
- Manufacturer** : Sudarshan Chemical Industries Limited
 162, Wellesly Road, Pune – 411001, India
 Telephone : +91 20 2605 8888
 Fax : +91 20 2605 8222
 E-mail : contact@sudarshan.com
 Website : www.sudarshan.com
- Supplier's details**
- US** : Sudarshan North America Inc.
 76 N. Walnut street Ridgewood NJ,
 USA 07450.
 Telephone : +1 201-882-2135
 Fax : +1 201-882-0157
 Email : usa@sudarshan.com
 Web : www.sudarshan.com
- 1.4 Emergency telephone number** : Call a Poison Control Centre.
 (Please refer Section 16)
 +1 800 222 1222
- Responsible Person** : Dr. Pramod Dalvi
 Head- R & D
 Telephone: +91 20 260 58 888
 Mobile No. : +91 7722088079
 Email : pvdalvi@sudarshan.com

SECTION 2: HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture**
- HMIS ratings** : Ratings Key: 0=Lowest hazard; 4 Highest hazard
 E: Safety glasses, protective gloves, and an exhaust fume hood should be used when handling this material.

Parameter	Rating
Health	0
Flammability	0
Reactivity	0
Personal Protection	E

- 2.2 Label elements**
- GHS label elements** : Not applicable
Hazard pictogram(s) : Not applicable
Signal word(s) : Not applicable

- Hazard statement(s)** : Not applicable
Precautionary statement(s) : P260: Do not breathe dust
P261: Avoid breathing dust
- 2.3 Other hazards** : Not known

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

- 3.1 Chemical Family** : Platelets of Mica coated With Titanium Dioxide. Contains no hazardous ingredients.

Composition

Common Chemical Name	INCI / CI Number	CAS	EINECS
Mica	Muscovite Mica	12001-26-2	310-127-6
Titanium Dioxide	Titanium Dioxide	13463-67-7	236-675-5
Tin Oxide	Tin (IV) Oxide	18282-10-5	242-159-0

The above table includes only those ingredients that are >1%.

SECTION 4: FIRST AID MEASURES

- 4.1 4.1. Description of first aid measures**

- Inhalation** : In case of accident by inhalation remove casualty to fresh air and keep at rest.
- Skin Contact** : Wash affected skin with plenty of water.
- Eye Contact** : If contact with eyes directly, flush with gently flowing fresh water thoroughly. If eye irritation persists, get medical advice/attention.
- Ingestion** : If ingested, wash out mouth with water, drink milk or egg white.
- Notes to a physician:** : No special measures are required.

- 4.2 Most important symptoms and effects, both acute and delayed**

- Acute** : None
- long term (repeated)** : May cause irritation to the respiratory system. Cough.Increased difficulty in breathing.

- 4.3 Indication of the immediate medical attention and special treatment needed**

- Recommended:** : a. Chest X-Ray
b. Lung Functionality Tests

SECTION 5: FIRE-FIGHTING MEASURES

- 5.1 Extinguishing media**

- Suitable Extinguishing Media** : Extinguish with water spray, foam or dry chemical.
- Unsuitable Extinguishing Media** : Carbon dioxide

- 5.2 Special hazards arising from the substance or mixture**

- Thermal hazards** : Non-combustible. None anticipated. Avoid accumulation of dust.

- 5.3 FIRE-FIGHTING MEASURES**

- Advice for fire-fighters** : Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures**

- Personal Precautions** : Do not breathe dust.
- Personal protection equipment** : Wear appropriate personal protective equipment, avoid direct contact.
- In case of Emergency** : A self contained breathing apparatus and suitable protective

- 6.2 **Environmental precautions** : clothing should be worn in fire conditions.
- 6.3 **Methods and material for containment and cleaning up** : Do not allow to enter drains, sewers or watercourses. Collect mechanically and dispose of according to Section 13. Use vacuum equipment for collecting spilt materials, where practicable.
- 6.4 **Reference to other sections** : See Section: 8 & 13

SECTION 7: HANDLING AND STORAGE

- 7.1 **Precautions for safe handling** : Avoid breathing dust.
- 7.2 **Conditions for safe storage, including any incompatibilities** : Keep container in a well-ventilated place.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 **Control parameters** : Provide adequate ventilation when using the material and follow the principles of good occupational hygiene to control personal exposures.

Exposure limit values :

SUBSTANCE	PEL (OSHA) mg/m3 for 8 hrs	TLV (ACGIH) mg/m3 for 8 hrs
Mica	3	3
Titanium Dioxide	15	10
Tin Oxide	2	2

- 8.2 **Exposure controls**
Appropriate engineering controls : Provide adequate ventilation to ensure that the occupational exposure limit is not exceeded. Isolate the dispersive process step away from other operations. This can be achieved by local exhaust ventilation or general ventilation.

- 8.3 **Individual protection measures, such as personal protective equipment (PPE) such as personal protective equipment (PPE)**

Hand protection : Wear gloves, eye protection and an approved dust mask if dust is generated during handling.

Eye/face protection : Goggles giving complete protection to eyes. Dust mask covering nose and mouth.

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Eye/face protection : Goggles giving complete protection to eyes. Dust mask covering nose and mouth.

Skin protection : Apron or other light protective clothing, boots and plastic or synthetic rubber gloves.

Respiratory protection : Dust mask covering nose and mouth.

Thermal hazards : None

Environmental Exposure Controls : Avoid dust generation. Avoid accumulation of dust.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

9.1 Appearance	Powder
Colour	Silver
Odour	Odourless
pH (Value)(10% Aq. Suspension)	8-10

Melting Point (°C)/ Freezing Point (°C)	Decomposes
Initial Boiling Point (°C)	Not applicable
Flash Point	Not applicable
Evaporation rate	Not applicable
Flammability (solid, gas)	Non-flammable
Vapour Pressure (Pascal)	Not applicable
Vapour Density (Air=1)	Not applicable
Specific Gravity	3.0 ± 0.2
Bulk Density	0.7 ± 0.1
Solubility (Water)	Max 1 %
Partition Coefficient: n-Octanol/water	Not applicable
Auto Ignition Temperature (°C)	Not available
Decomposition Temperature (°C)	Not available
Viscosity (mPa.s)	Not applicable
Explosive Properties	Not explosive
Oxidising properties	Not applicable

SECTION 10: STABILITY AND REACTIVITY

- 10.1 Reactivity : No information available
- 10.2 Chemical stability : Stable under normal conditions.
- 10.3 Possibility of hazardous reactions : None
- 10.4 Conditions to avoid : Known none
- 10.5 Incompatible materials: : No Information available
- 10.6 Decomposition products : No information available

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity	LD50(Oral, (rat) > 5000 mg/kg. (Non Toxic according to NIOSH Registry of Toxic Effects of Chemical Substances (RTECS))
skin corrosion/irritation	May cause irritation
Serious eye damage/irritation	May cause irritation
respiratory or skin sensitization	May cause irritation
Germ cell Mutagenicity	No data
Carcinogenicity	Limited evidence of carcinogenicity in man. Not classifiable as to its carcinogenicity to humans.
Reproductive toxicity	No data
STOT-single exposure	No data
STOT-repeated exposure	No data

SECTION 12: ECOLOGICAL INFORMATION

- 12.1 Toxicity : No data
- 12.2 Persistence and degradability : Insoluble in water. This product is predicted not to degrade in soil and water.
- 12.3 Bioaccumulative potential : No data
- 12.4 Mobility in soil : Not applicable
- 12.5 Results of PBT and vPvB assessment : Not applicable
- 12.6 Other adverse effects : Not known
- 12.7 Water pollution : NWG (Non Water endangering)

SECTION 13: DISPOSAL CONSIDERATIONS

- 13.1 Waste treatment methods : Dispose of contents in accordance with local, state or national legislation.

SECTION 14: TRANSPORT INFORMATION

NOT CLASSED AS DANGEROUS FOR TRANSPORT.

International Transport Regulations	ADR/RID	ADN	IMDG	ICAO/IATA
14.1. UN number	Not applicable	Not applicable	Not applicable	Not applicable
14.2. Proper Shipping Name	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing Group	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards	None	None	None	None
14.6. Special precautions for user	None	None	None	None
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable	Not applicable	Not applicable	Not applicable
Hazard label(s)	Not applicable			
Additional Information	3206 19 00			

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental : Not available
regulations/legislation specific for
the substance or mixture

Chemical Safety Assessment : Not available
OSHA hazard category 2B carcinogen

SECTION 16: OTHER INFORMATION**Abbreviations:**

ADR: European Agreement concerning international carriage of Dangerous goods by Road

CAS: Chemical Abstracts Service

EC: European Community

ICAO: International Civil Aviation Organization

IMDG: International Maritime Dangerous Goods

IATA: International Air Transport Association

Poison Control Centers**America:**

Argentina +54 11 4962 2247; Brazil 0800 283 9904; Canada (800) 332 1414 (Alberta only); Canada+1 902 470 8161 or 1 800 565 8161; Chile +56 2 635 3800; Costa Rica +506 2223 1028/911; Cuba +53 64 10 00/+53 64 38 64; Ecuador 1800 836 366; Guatemala 1-801-0029832; Jamaica +1 888 764 7667; Mexico +52 3336 50 30 60 Nicaragua +505 228 97 150; Paraguay +595 21 220 418; Peru+511273 2318/99 901 29 33; Puerto Rico +1 800 222 1222; Trinidad and Tobago +1 868 800 2742; Trinidad and Tobago +1 868 800 PIC (2742); Uruguay 1722; USA +1 800 222 1222; Venezuela +58 16 621 808

Reference: http://www.who.int/gho/phe/chemical_safety/poisons_centres/en/index.html

We have described our product concerning possible safety requirements by the above-mentioned information given to the best of our knowledge and experience. All data given are never meant to guarantee any quality description nor product properties