MATERIAL SAFETY DATA SHEET OF FlawGlo OV 106

1. Identification of the Product and the Company:

Product Identifier	:	FlawGlo OV 106
Use of the product	:	Industrial Use
Manufacturer and Supplier	:	Arora Technologies (P) Limited
Address	:	Plot No. D-183/8, MIDC, TTC Nerul, Navi Mumbai- 400706, Maharashtra, India
Telephone No.	:	T: +91-22-6138 0600
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2. Hazard Identification:

Physical hazards	: Not classified.
Health hazards	: Not classified.
OSHA defined hazards	: Combustible dust.
Label elements	
Hazard symbol	: None.
Signal word	: Warning
Hazard statement	: May form combustible dust concentrations in air.
Precautionary statement	
Prevention	: Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Prevent dust accumulation to minimize explosion hazard.
Response	: Remove and wash contaminated clothing before re-use. In case of fire: Use appropriate media for extinction.
Storage	: Store away from incompatible materials.
Disposal	Dispose of contents/container in accordance with local/ regional/ national/ international regulations.
Hazard(s) not otherwise classified (HNOC)	: Not classified.
Supplemental information	: Not applicable.

3. Composition/information on ingredients:

Chemical name	CAS number	%
Iron Oxide	1317-61-9	70 - 75%

4. First-aid measures:

Inhalation	: Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	: Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	: Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	: Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	: Dust may cause eye, skin and respiratory tract irritation.
Indication of immediate medical attention and special treatment needed	: Provide general supportive measures and treat symptomatically.
General information	: Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Firefighting Measures:

Suitable extinguishing media	:	Water fog. Foam. Dry chemical powder. Carbon dioxide (Co2).
Unsuitable extinguishing media	:	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	:	Explosion hazard: Avoid generating dust; fine dust dispersed in air in sufficient concentrations and in the presence of an ignition source is a potential dust explosion hazard.
Special protective equipment and precautions for firefighters	:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire-fighting equipment/instructions	:	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
General fire hazards	:	Heat may cause the containers to explode. May form combustible dust concentrations in air.

6. Accidental release measures:

Personal precautions, protective equipment and emergency procedures	:	Keep unnecessary personnel away. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Use only non-sparking tools. Wear appropriate personal protective equipment. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	:	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Large Spills: Sweep or shovel up material and place in a clearly labeled container for waste. Following product recovery, flush area with water. Small Spills: Collect dust using a vacuum cleaner equipped with HEPA filter. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	:	Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage:

Precautions for safe handling	:	Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Explosion proof exhaust ventilation is recommended. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid prolonged exposure.
Conditions for safe storage, including any incompatibilities	:	Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Keep away from heat, sparks and open flame.

8. Exposure controls/personal protection:

Occupational exposure limits	:	No exposure limits noted for ingredient(s).
Biological limit values	:	No biological exposure limits noted for the ingredient(s).
Exposure guidelines	:	No exposure standards allocated.
Appropriate engineering controls	:	Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
Individual protection measures, such as personal protective equipment		
Eye/face protection	:	Wear safety glasses with side shields (or goggles).

Skin protection	:	For prolonged or repeated skin contact, use suitable protective gloves.
Hand protection	:	Wear suitable protective clothing.
Other	:	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.
Respiratory protection	:	Wear appropriate thermal protective clothing, when necessary.
Thermal hazards	:	When using, do not eat, drink or smoke. Always observe good personal
General hygiene considerations	:	hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties:

Appearance		
Physical state	:	Solid.
Form	:	Powder.
Color	:	Black.
Odor	:	Odorless.
Odor threshold	:	Not available.
pH	:	4 - 8 (50 g/L in water)
Melting point/freezing point	:	1832 °F (1000 °C)
Initial boiling point and boiling range	:	Not available.
Flash point	:	Not relevant.
Evaporation rate	:	Not relevant.
Flammability (solid, gas)	:	Not available.
Upper/lower flammability or explosive limits		
Flammability limit – lower (%)	:	Not relevant.
Flammability limit – upper (%)		Not relevant.
Explosive limit – lower (%)		Not available.
Explosive limit – upper (%)		Not available.
Vapor pressure		Not relevant.
Vapor density	:	Not relevant.
Specific gravity	:	4 – 5 (68 °F (20 °C))
Solubility(ies)		
Solubility (water)	:	Insoluble.
Partition coefficient (n-octanol/ water)	:	Not relevant.
Auto-ignition temperature	:	Not relevant.
Decomposition temperature	:	Not available.
Viscosity	:	Not relevant.
Other information		
VOC (Weight %)	:	Not applicable.

10. Stability and reactivity:

Reactivity	:	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	:	Material is stable under normal conditions.
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use.
Conditions to avoid	:	Keep away from heat, sparks and open flame. Minimize dust generation and accumulation. Contact with incompatible materials.
Incompatible materials	:	Strong oxidizing agents.
Hazardous decomposition products	:	No hazardous decomposition products are known.

11. Toxicological information:

Information on likely routes of exposure	
Ingestion	: Expected to be a low ingestion hazard.
Inhalation	: Inhalation of dusts may cause respiratory irritation.
Skin contact	: Dust or powder may irritate the skin.
Eye contact	: Dust may irritate the eyes.
Symptoms related to the physical, chemical and toxicological characteristics	: Dust may cause eye, skin and respiratory tract irritation.
Information on toxicological effects	
Acute toxicity	: Expected to be a low hazard for usual industrial or commercial handling by trained personnel.
Skin corrosion/irritation	: Prolonged skin contact may cause temporary irritation.
Serious eye damage/eye irritation	: Direct contact with eyes may cause temporary irritation.
Respiratory sensitization	: Not a respiratory sensitizer.
Skin sensitization	: This product is not expected to cause skin sensitization.
Germ cell mutagenicity	: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	: This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
Reproductive toxicity	: This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity – single exposure	: Not classified.
Specific target organ toxicity – repeated exposure	: Not classified.
Aspiration hazard	: Not an aspiration hazard.
Chronic effects	: Prolonged inhalation may be harmful.

12. Ecological information:

Ecotoxicity	: The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Persistence and degradability	: No data is available on the degradability of this product.
Bioaccumulative potential	: No data available for this product.
Mobility in soil	: Not available.
Other adverse effects	: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations:

Disposal instructions	: Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents /container in accordance with local/ regional/ national/ international regulations.
Waste from residues / unused products	: Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

14. Transport Information:

DOT

Not regulated has dangerous goods.

IATA

Not regulated has dangerous goods.

IMDG

Not regulated has dangerous goods.

Transport in bulk according to Annex II Of MARPOL 73/78 and the IBC Code	Not available

15. Other information:

Further information HMIS® Ratings	:	Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.

NFPA Rating	:	Health 1 Flammability 1 Physical Hazard 0
List of abbreviations	:	TWA: Time weighted average
References		HSDB® - Hazardous Substances Data Bank

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