

MATERIAL SAFETY DATA SHEET OF FlawGlo BMI 106

1. Identification of the Product and the Company:

Product Identifier : FlawGlo BMI 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 : Gases under pressure . Compressed Gas
 Health hazards : Reproductive toxicity. Category 1B
 OSHA defined hazards : Not Classified.
 Label elements : 
 Hazard symbol : None.
 Signal word : Danger
 Hazard statement : Contains gases under pressure; May explode if heated. May damage fertility or the unborn child.
 Precautionary statement
 Prevention : Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed. Wear protective gloves/protective clothing.
 Response : If exposed or concerned; Get medical attention.
 Storage : Store locked up. Protect from Sunlight. Store in well ventilated room.
 Disposal : Dispose of contents/container in accordance with local/ regional/ national/ international regulations.
 Hazard(s) not otherwise classified (HNOC) : Not classified.

3. Composition/information on ingredients

Chemical name	CAS number	%
Boric Acid	10043-35-3	<5
Carbon dioxide	124-38-9	<5
Iron oxide	1317-61-9	<5

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. High concentration; Inhalation of propellant may cause respiratory irritation.
 Indication of immediate medical attention and special treatment needed : 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 : Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.
- 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 : Containers should be cooled with water to prevent vapor pressure build up.

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). Keep combustibles (wood, paper, oil, etc.) away from spilled material. The product is immiscible with water and will spread on the water surface. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Use water spray to reduce vapors or divert vapor cloud drift. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS
- Environmental precautions : Prevent further leakage or spillage if safe to do so

7. Handling and storage:

- Precautions for safe handling : Pressurised containers: Do not pierce or burn even after use. 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 : Level 1 Aerosol.
Contents under pressure. Do not handle or store near an open flame, heat or other sources of ignition. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. Protect from direct sunlight. Do not puncture, incinerate or crush. Store away from incompatible materials (see Section 10 of the SDS)

8. Exposure controls/personal protection:

Occupational exposure limits

US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	PEL	5000 ppm

US ACGIH Threshold Limit Values

Components	Type	Value	Form
Boric acid (CAS 10043-35-3)	STEL	6 mg/m3	Inhalable fraction
	TWA	2 mg/m3	Inhalable fraction
Carbon dioxide (CAS124-38-9)	STEL	30000 ppm	

US NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Carbon dioxide (CAS124-38-9)	STEL	54000 mg/m ³ 30000 ppm
	TWA	9000 mg/m ³ 5000 ppm

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	
Hand protection	: For prolonged or repeated skin contact, use suitable protective gloves.
Other	: Wear suitable protective clothing.
Respiratory protection	: Chemical respirator with organic vapor cartridge and full facepiece.
Thermal hazards	: Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	: When using, do not eat, drink or smoke. Always observe good personal 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 of active component

Appearance	
Physical state	: Liquid.
Form	: Aerosol Can.
Color	: Black.
Odor	: Detergent Like.
Odor threshold	: Not available.
pH	: 8-10
Melting point/freezing point	: Not available.
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.
Relative density	: 20°C (68 °F)
Solubility(ies)	: Soluble in water
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. : Contact with incompatible materials.
Conditions to avoid	: Keep away from heat, sparks 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	: May cause irritation to the respiratory system.
Skin contact	: May cause the skin irritation.
Eye contact	: Causes serious eye irritation.
Symptoms related to the physical, chemical and toxicological characteristics	: Dusts or powder may irritate the respiratory tract, skin, and eyes.

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	: May damaged fertility or the unborn child.
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	: Not expected to be harmful to aquatic organisms.
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

UN number : Un1950
UN proper shipping name : Aerosols
Transport hazard class(es) : 2.2
Subsidiary classes : -
Label(s) : Limited Quantity, Class 2.2
Packing group : Y203
Special precautions for user : Read safety instructions, SDS and emergency procedures before handling.
Packaging exceptions : 306
Packaging non bulk : None.
Packaging bulk : None

IATA

UN number : Un1950
UN proper shipping name : Aerosols
Transport hazard class(es) : 2.2
Subsidiary classes : -
Label(s) : Limited Quantity, Class 2.2
Packing group : Y203
Environmental hazards : No.
ERG Code : 10L
Special precautions for user : Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number : Un1950
UN proper shipping name : Aerosols
Transport hazard class(es) : 2.2
Subsidiary classes : -
Label(s) : Limited Quantity, Class 2.2
Packing group : Y203
Environmental hazards : No.
Marine pollutant : No.
EmS : Not available
Special precautions for user : Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : This substance/mixture is not intended to be transported in bulk

15. Other information:

Further information : Health:1
HMIS® Ratings : Flammability:0
Physical Hazard:0

NFPA Rating : 

List of abbreviations : LD50: Lethal Dose, 50%.
PEL: Permissible exposure limit.
STEL: Short term exposure limit.
TWA: Time weighted average.

References : HSDB® - Hazardous Substances Data Bank

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