

MATERIAL SAFETY DATA SHEET

FOAMING HELMET CLEANER & DISINFECTANT



Version : 1.1 Print Date: 19/5/2025 Revision Date: 06/08/2025 MSDS number: 03

1. PRODUCT AND COMPANY INFORMATION

PRODUCT INFORMATION

Product name	FOAMING HELMET CLEANER & DISINFECTANT
Packing	250 ML.
Use of the Substance/mixture	Cleaner for Helmet / Padding foam / Fibre
Company Information	FIRSTBRIDGE SOLUTIONS ASIA LLP No. 21, GF, Medarahalli Myadarahalli, Bengaluru - 560090, Karnataka IN +91 99805 16657 bjoydeep@firstbridgeasia.com www.firstbridgeasia.com

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION:

- Flammable Aerosols (Category 1) – contents under pressure, flammable
- Eye Irritation (Category 2A) – may cause serious eye irritation
- Skin Irritation (Category 3, optional) – may cause mild skin irritation

Signal Word: Danger

HAZARD STATEMENTS (H-STATEMENTS):

H222 – Extremely flammable aerosol	H319 – Causes serious eye irritation
H229 – Pressurized container: May burst if heated	H316 – Causes mild skin irritation (if applicable)

PRECAUTIONARY STATEMENTS (P-STATEMENTS):

- P210 – Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.
- P211 – Do not spray on an open flame or other ignition source.
- P251 – Do not pierce or burn, even after use.
- P261 – Avoid breathing aerosols or vapors.
- P264 – Wash hands thoroughly after handling.
- P280 – Wear protective gloves and eye/face protection.
- P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- P337 + P313 – If eye irritation persists: Get medical advice/attention.

OTHER HAZARDS:

- Pressurized container; exposure to temperatures above 50°C may cause bursting.
- Vapors may form explosive mixtures with air.
- Ingestion may cause gastrointestinal discomfort.



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3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	C.A.S. No	% by Wt
Glucopon 600	110615-47-9	10 - 15 %
XL 80	166736-08-9	5 - 10 %
IPA	68 - 63 - 01	10 - 15 %
Tinosan HP 100	3380-30-1	5 - 15 %
Polyquart 149	192003-74-0	05 - 10%
Protectol PE , GA	122-99-6	1 - 5 %
DM WATER	7732-18-5	10 - 20 %
L P G	68476-85-7	5 - 10%

4. FIRE AND EXPLOSION HAZARD DATA

1	Eye Contact	Prolonged or repeated contact may dry skin and cause irritation.
2	Skin contact	No adverse effects expected when used as directed.
3	Inhalation	May cause irritation to mouth, throat and stomach.May cause abdominal discomfort.
4	Ingestion	Persons with pre-existing skin disorders may be more susceptible to irritating effects.

5. FIREFIGHTING MEASURES

1	Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide
2	Specific hazards during firefighting	Container may melt and leak in heat of fire
3	Further information	Although this product has a flash point below 200 Deg F, it is an aqueous solution containing an alcohol and does not sustain combustion. Fight fire with normal precautions from a reasonable distance. Standard procedure for chemical fires. Wear full protective clothing and positive pressure self- contained breathing apparatus. In case of fire and/or explosion do not breathe fumes.
4	Flash point	85 °C 185 °F Method: ASTM D 56
5	Lower explosion limit	Note: no data available
6	Upper explosion limit	Note: no data available

6. ACCIDENTAL RELEASE MEASURES

1	Personal precautions	No special precautions required.
2	Environmental precautions	Outside of normal use, avoid release to the environment.
3	Methods for cleaning up	Soak up with inert absorbent material Sweep up and shovel into suitable containers for disposal. Dike large spills Clean residue from spill site.

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7. HANDLING AND STORAGE

HANDLING

Use only in well-ventilated areas to avoid inhalation of vapors or aerosols.

Avoid contact with eyes and prolonged or repeated skin contact. Wear appropriate personal protective equipment (PPE), such as gloves and eye protection, when handling.

Keep away from heat, sparks, open flames, and other ignition sources. Aerosols are extremely flammable.

Do not puncture, crush, or burn the aerosol container, even when empty.

Avoid spraying on hot surfaces or open flames.

Do not ingest. Wash hands thoroughly after handling.

Avoid mixing with incompatible materials such as strong oxidizers or acids.

STORAGE:

Store in a cool, dry, well-ventilated area away from direct sunlight.

Keep containers tightly closed when not in use to prevent leakage and evaporation.

Protect from temperatures exceeding 50°C; pressurized containers may burst if heated.

Store away from food, beverages, and incompatible chemicals.

Use secondary containment where possible to prevent accidental leaks or spills.

SPECIAL PRECAUTIONS:

Ensure proper labeling of all containers.

Follow local, regional, and national regulations regarding the storage of flammable aerosols.

Do not store near oxidizing agents or sources of ignition.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS

OSHA exposure limits have not been established for this product or reportable ingredients unless noted in the table above.

PERSONAL PROTECTIVE EQUIPMENT

1	Respiratory Protection	No personal respiratory protective equipment normally reqd.
2	Hand protection	No special requirements, Use of hand gloves recommended
3	Eye protection	No special requirements, Industrial goggles may be used
4	Skin and body protection	No special requirements
5	Hygiene measures	Handle in accordance with good industrial hygiene and safety

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9. CHEMICAL PROPERTIES

Appearance	Clear, colorless to slightly tinted liquid
Odor	Mild alcohol or solvent odor
Odor Threshold	Not determined
pH	6.5 - 7.5
Melting Point / Freezing Point	Not determined; liquid at normal temperatures
Boiling Point / Range	78-100°C (depends on alcohol and solvent blend)
Flash Point	12-25°C (closed cup, flammable solvents)
Evaporation Rate	Moderate to fast (faster than water due to alcohol content)
Flammability (solid, gas)	Flammable liquid; aerosol under pressure
Upper/Lower Flammability or Explosive Limits	Not determined
Vapor Pressure	40-80 kPa at 25°C (pressurized aerosol)
Vapor Density	>1 (heavier than air)
Relative Density / Specific Gravity	0.78-0.88 g/cm
Solubility	Miscible with water and organic solvents
Partition Coefficient (n-octanol/water)	Not determined
Auto-ignition Temperature	-365°C (for alcohol-based solvents)
Decomposition Temperature	Not determined
Viscosity	Low (-1-5 cP)
Explosive Properties	None under normal conditions; aerosol may rupture if heated

10. STABILITY AND REACTIVITY

Conditions to avoid	Direct sources of heat.
Materials to avoid	Strong oxidizing agents
Hazardous decomposition	Thermal decomposition can lead to release of irritating gases and vapours.
Hazardous reactions	Stable under recommended storage conditions.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Inhalation: Inhalation of vapors or aerosols may cause respiratory irritation, dizziness, headache, or nausea.

Ingestion: Swallowing may cause gastrointestinal discomfort, nausea, or vomiting.

Skin Contact: Prolonged or repeated contact may cause mild irritation or dryness.

Eye Contact: Causes serious eye irritation; symptoms may include redness, tearing, and stinging.

CHRONIC TOXICITY

Long-term exposure under normal use conditions is not expected to cause chronic health effects. Repeated or prolonged skin contact with concentrated product may lead to dermatitis.

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SENSITIZATION

Not classified as a skin or respiratory sensitizer under normal use conditions.

SPECIFIC TARGET ORGAN TOXICITY (STOT)

Single Exposure: May cause temporary irritation to eyes, skin, or respiratory tract.

Repeated Exposure: No known organ toxicity under normal handling conditions.

CARCINOGENICITY / MUTAGENICITY / REPRODUCTIVE TOXICITY

No ingredients are listed as carcinogenic by IARC, NTP, or OSHA.

Not known to be mutagenic or toxic to reproduction under normal use conditions.

OTHER INFORMATION

Avoid direct contact with eyes and prolonged skin contact.

Use in accordance with label instructions and recommended personal protective equipment (PPE).

Vapors are flammable; avoid inhalation of concentrated vapors.

12. ECOLOGICAL INFORMATION

ECOTOXICITY

Aquatic Toxicity: Low to moderate toxicity to aquatic organisms due to alcohol and hydrocarbon solvents. Large or concentrated releases may temporarily affect aquatic life by lowering dissolved oxygen or forming surface films.

Terrestrial Toxicity: Not expected to be toxic to terrestrial plants, soil microorganisms, or animals under normal use conditions.

PERSISTENCE AND DEGRADABILITY

Alcohol components (e.g., isopropanol, ethanol) are readily biodegradable.

Hydrocarbon solvents may be slowly biodegradable depending on formulation.

BIOACCUMULATIVE POTENTIAL

Low potential for bioaccumulation of alcohol and hydrocarbon components.

Ingredients are generally water-soluble or volatile and do not tend to bioaccumulate significantly.

MOBILITY IN SOIL

Alcohols are miscible with water and may migrate in soil or groundwater if spilled in large quantities.

Hydrocarbon solvents may adsorb to soil particles but still pose contamination risk if released uncontrolled.

OTHER ADVERSE EFFECTS

Large uncontrolled releases may temporarily affect aquatic organisms due to oxygen depletion or surface coating.

ENVIRONMENTAL PRECAUTIONS

Prevent product from entering drains, surface water, or soil.

Follow local and national environmental regulations regarding chemical discharge.

Use secondary containment in storage areas to prevent accidental environmental release.

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Follow local and national environmental regulations regarding chemical discharge.
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13. DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS

Product Disposal: Do not dispose of large quantities into drains, sewers, or natural water bodies. Residual product should be collected and sent to a licensed chemical waste disposal facility.

Contaminated Packaging: Empty aerosol containers may contain residual product. Do not puncture, crush, or incinerate pressurized containers. Rinse thoroughly and dispose according to local regulations.

Hazardous Waste: Aerosols are flammable; waste may need to be managed as flammable chemical waste depending on local regulations.

ENVIRONMENTAL CONSIDERATIONS

Avoid release into the environment. Prevent contamination of surface water, groundwater, or soil.
Large spills may temporarily affect aquatic life due to oxygen depletion or surface coating.

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RECOMMENDED DISPOSAL OPTIONS

Small Quantities (Consumer Use): Dispose of via household hazardous waste collection programs where available.

Large Quantities (Industrial Use): Send to licensed chemical waste disposal facilities or treat via approved industrial waste processes.

Packaging: Recycle empty aerosol containers where facilities exist, or dispose according to local regulations.

PRECAUTIONS DURING DISPOSAL

Wear appropriate personal protective equipment (PPE), such as gloves and eye protection, when handling waste or residues.

Avoid creating aerosols, splashes, or spills during disposal.

Comply with all applicable local, regional, and national environmental and waste disposal regulations.

14. TRANSPORT INFORMATION

UN Number	UN1950 – Aerosols, flammable
UN Proper Shipping Name	Aerosols, flammable
Transport Hazard Class(es)	Class 2.1 – Flammable gas (for pressurized flammable aerosols)
Packing Group	Not applicable (Aerosols are typically not assigned a packing group)
Environmental Hazards	Not classified as a marine pollutant
Special Precautions for User	<ul style="list-style-type: none">• Avoid spillage and leakage during transport.• Ensure containers are upright, tightly closed, and protected from physical damage.• Do not expose containers to temperatures above 50°C; pressurized containers may rupture.• Keep away from ignition sources during loading, unloading, and transport.
Transport Mode Specific Information	
Road / Rail (ADR/RID)	UN1950, Aerosols, Flammable, Class 2.1
Sea (IMDG)	UN1950, Aerosols, Flammable, Class 2.1
Air (IATA/ICAO)	UN1950, Aerosols, Flammable, Class 2.1
Additional Information	<ul style="list-style-type: none">• Transport according to all applicable local, national, and international regulations.• Ensure proper labeling and documentation accompanies the shipment.

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15. REGULATORY INFORMATION

SAFETY, HEALTH, AND ENVIRONMENTAL REGULATIONS

OSHA (Occupational Safety and Health Administration, USA)

- Product components are classified under OSHA Hazard Communication Standard (29 CFR 1910.1200) as flammable aerosols and eye irritants.

TSCA (Toxic Substances Control Act, USA)

- All chemical components are listed on the TSCA Inventory.

SARA Title III (Superfund Amendments and Reauthorization Act, USA)

- Section 302 (Extremely Hazardous Substances): Not listed
- Section 311/312 (Hazard Categories): Acute health hazard: Yes (eye irritation); Chronic: No; Fire: Yes (flammable aerosol); Sudden Release: No; Reactive: No
- Section 313 (Toxic Chemicals): No components listed

CERCLA / RCRA (USA)

- Not classified as hazardous waste under RCRA. Spills should be managed in accordance with local regulations.

WHMIS (Canada)

- Classified as Flammable Aerosol (Class A) and Eye Irritant (Class D2B) under WHMIS 2015.

EU Regulations (REACH / CLP)

- Classified as flammable aerosol and eye irritant under CLP (Regulation EC 1272/2008)
- All ingredients are compliant with EU REACH regulations

Other Regulations

- Not listed on IARC, NTP, or OSHA carcinogen lists
- Complies with local environmental and chemical safety laws in most jurisdictions

LABELLING REQUIREMENTS

- Signal Word: Danger
- Hazard Statements: H222 – Extremely flammable aerosol; H229 – Pressurized container: May burst if heated; H319 – Causes serious eye irritation
- Precautionary Statements: Avoid prolonged skin and eye contact; use appropriate PPE; keep away from heat, sparks, open flames, and other ignition sources

16. OTHER INFORMATION

HMIS RATINGS		NFPA RATINGS	
Health	1	Health	1
Flammability	2	Fire	2
Reactivity	0	Reactivity	0
		Special	-

FURTHER INFORMATION

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