SAFETY DATA SHEET
MR. MUSCLE C2 HYGIENIC HARD SURFACE CLEANER CONCENTRATE

Section 1. Identification of the Material and Supplier

Product Name : **BRILLON PROFESSIONAL MR. MUSCLE C2 HYGIENIC HARD SURFACE CLEANER CONCENTRATE**

Product Code : **C2_V11.4.24**

Recommended Use : Hygienic Hard Surface Cleaner Concentrate

Supplier : Brillon Consumer Products Pvt. Ltd.
10th Floor,Tower 2
AIPL Business Club,
Golf Course Ext Road,Sec 62,
Gurgaon ,Haryana

Factory Address :
Shri Padhmam Industries- Unit-II, Shed No. 1,
R.S. No. 48, Rohini Nagar,
Thavalakuppam, Puducherry- 605 007, India

Consumer Help Line : Manager Consumer Affairs
Ph: 011-41704999

Product use : Consumer

Poison Centre Information: National Poisons Information Centre, Dept. of Pharmacology, All India Institute of Medical Sciences, New Delhi.

Section 2. Hazard(s) Identification

Classification of the substance or mixture:

Xi Irritant

Risk Phrases :
R 36, Irritating to eyes

Precautionary statements

General	**:**	Keep out of reach of children. If medical advice is needed, have product container or label at hand.
Prevention	**:**	Wear eye or face protection. Wash hands thoroughly after handling.
Response	**:**	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
Storage	**:**	Not applicable.
Disposal	**:**	Not applicable.
Supplemental label elements	**:**	None known.
Hazards not otherwise Classified	**:**	None known.

Section 3. Composition/Information on ingredients

Chemical Name	CAS No.	Proportion (% w/w)
Benzalkonium Chloride	68424-85-1	<2%
Lauryl Dimethyl Amine Oxide	1643-20-5	<2%
Sodium Hydroxide	1310-73-2	<1%
Di-isopropanolamine	110-97-4	<2%
Lauryl Alcohol Ethoxylate	68439-50-9	<7%

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence

require reporting in this section.

Section 4. First Aid Measures

Eye Contact : If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing for at least 15 minutes. Seek medical advice.

Skin Contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Ingestion : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an

unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Advice to Doctor: Treat symptomatically.

Section 5. Fire - Fighting Measures

Extinguishing media

Suitable extinguishing media : Carbon dioxide, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

Unsuitable extinguishing media: None known

Specific hazards arising from the chemical: In a fire or if heated, a pressure increase will occur and the container may burst

Hazardous thermal decomposition products : No specific data

Special protective actions for fire-fighter : Promptly isolate the scene by removing all persons from the vicinity of the Incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

For non-emergency : No action shall be taken involving any personal risk or without suitable

Personnel training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small Spill **:** Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large Spill **:** Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose

the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and Storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container

Conditions for safe storage including any incompatibilities : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.
Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure Controls/Personal Protection

Control

Occupational exposure limits

Not applicable.

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and Chemical Properties

Appearance : Clear, transparent thin liquid. Colour Bright Orange.

pH at 25 Deg C (Neat) : 9.5 – 11.5

Odour : Characteristic

Solubility : Soluble

Viscosity : Not available

Specific Gravity at 25 Deg C: 1.0 – 1.1 g/ml

Evaporation Rate : No information available

Vapour Density : No information available

Boiling Point : Not determined

Melting Point/Range : Not determined

Decomposition temperature : Not determined

Autoignition temperature : No information available

Flash Point : Not determined

Section 10. Stability and Reactivity

Stability : The product is stable under normal conditions.

Conditions to avoid : No specific data

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced

Materials to avoid : Strong acids.

Section 11. Toxicological Information

Acute toxicity: Oral LD50 estimated to be > 5000 mg/kg based on raw material data.

Information on toxicological effects of components

Acute Toxicity

Product/Ingredient name	Result	Species	Dose	Exposure
Benzalkonium Chloride 80%	LD50 Oral	Rat	344 mg/kg	-
Lauryl Dimethyl Amine Oxide	LD50 Oral	Rat	1064 mg/kg	-
Lauryl Alcohol Ethoxylate	LD50 Oral	Rat	2750 mg/kg	-
Di-isopropanolamine	LD50 Oral	Rat	2000 mg/kg	-
Sodium Hydroxide (50% soln.)	LD50 Oral	Rat	220 mg/kg	-

Chronic toxicity : None known

Specific effects

Carcinogenic effects : None known
Mutagenic effects : None known
Reproductive toxicity : None known
Target organ effects : None known
Teratogenicity : None known

Potential acute health effects

Eye contact : Causes eye irritation.
Inhalation : No known significant effects or critical hazards.
Skin contact : No known significant effects or critical hazards.
Ingestion : May be irritating to mouth, throat and stomach.

Section 12. Ecological Information

Do not discharge into sewer or waterways.

Refer to data for ingredients, which follows:

Ecotoxicity (for Benzalkonium Chloride):

Acute toxicity to fish :
LC50 - 96 h : 64 ppb Fresh Water – Oncorhynchus mykiss (Fish)

Acute toxicity to daphnia :
EC50 - 48 h : 0.016 mg/l - Daphnia

Ecotoxicity (for Lauryl Dimethyl Amine Oxide):

Acute toxicity to fish :
LC50 - 96 h : 31.8 mg/l - Danio rerio (zebra fish)
semi-static test
Method: OECD Test Guideline 203
Harmful to fish.
Freshwater species
Unpublished reports

Acute toxicity to daphnia and other aquatic invertebrates:
EC50 - 48 h : 3.9 mg/l - Daphnia magna (Water flea)
static test
Method: OECD Test Guideline 202
Toxic to aquatic invertebrates.
Freshwater species
Unpublished reports

Ecotoxicity (for Lauryl Alcohol Ethoxylate) :

Aquatic toxicity :
Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Ecotoxicity (for Di-isopropanolamine) :
Acute toxicity to fish:
Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested). LC50, Brachydanio rerio (zebrafish), static test, 96 Hour, 1,466 mg/l, OECD Test Guideline 203 or Equivalent

Acute toxicity to aquatic invertebrates:
EC50, Daphnia magna (Water flea), static test, 48 Hour, 277.7 mg/l, Directive 84/449/EEC, C.2

Acute toxicity to algae/aquatic plants:
EC50, Desmodesmus subspicatus (green algae), static test, 72 Hour, Growth rate inhibition, 339 mg/l,
OECD Test Guideline 201 or Equivalent NOEC, Desmodesmus subspicatus (green algae), static test,
72 Hour, 125 mg/l, OECD Test Guideline 201 or Equivalent

Toxicity to bacteria :
EC50, activated sludge, 30 min, > 1,995 mg/l

Ecotoxicity (for Sodium Hydroxide):
This material has exhibited slight toxicity to terrestrial organisms and moderate toxicity to aquatic flora
& fauna.

Section 13. Disposal Considerations

Waste from residues / unused products:
The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Dispose of contents/container in accordance with local regulation.
Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements
of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.

Section 14. Transport Information

General Remark	**:**	Not classified as dangerous according to international Transport regulations (ADR/RID, IMDG or ICAO/IATA)
DOT Classification	**:**	Not a DOT Regulated material
TDG Classification	**:**	Not a TDG controlled material
Proper Shipping Name	**:**	Not applicable
Packaging Group	**:**	Not applicable
Maritime Transportation	**:**	Not applicable

Section 15. Regulatory Information

Symbol & Hazard indication of the product

Xi Irritant

Risk Phrases : R 36, Irritating to eyes

Safety Phrases : S26, In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Further indications on the label : Rinse hands with water after use. For prolonged contact protection for the skin may be necessary.

Section 16. Other Information

Notice to Reader

To the best of our knowledge, the information contained herein is accurate.
Our known hazards are described herein; however, we cannot guarantee that these are the only hazards that exist. Final determination of suitability of the product is the sole responsibility of the user.

Please read all labels carefully before using product.

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