Safety Data Sheet

According to SS586:2014

Formula 409® Antibacterial All-Purpose Cleaner

Version 1.0

Issue date:10/10/2014

Revision date: 10/10/2014

SDS Record Number: CSSS-TCO-010-115561

Section 1 Identification of the substance/mixture and of the company/undertaking

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Identification on the label/Trade name: Formula 409® Antibacterial All-Purpose Cleaner

Additional identification:

Identification of the product:

See section 3

Index Number:

Not available

REACH registration No.:

Not available

Relevant identified uses of the substance and uses advised against:

Identified uses:

Germicidal Cleaner.

Uses advised against:

Not available.

Details of the supplier of the safety data sheet:

Supplier(Manufacturer): The Clorox Company

Address: 1221 Broadway Oakland, CA 94612 USA

Contact person(E-mail):

Telephone: 1-510-271-7000

Fax: -

Emergency telephone Number:

For Medical Emergencies call: 1-800-446-1014

Transportation Emergencies, call Chemtrec: 1-800-424-9300

Available outside office hours? YES NO X

Section 2 Hazards Identification

Classification of the substance/mixture:

GHS Classification Not Classified

label elements:

Hazard Pictograms: No hazard Pictogram is used.

Signal Word(S): No signal word is used.

Hazard Statement: Not applicable.

Precautionary statement: Not applicable.

Other hazards:

Not available.

Section 3 Composition/information on ingredients

Substance/Mixture: Mixture

Product name: Formula 409® Antibacterial All-Purpose Cleaner

Version #: 1.0 Issue date: 10-10-2014. Revision date: 10-10-2014. 1 / 6

Ingredient(s):

Chemical Name	Registration No.	CAS No.	EC No.	Concentration
Lauramine oxide	N/A	1643-20-5	216-700-6	1-5%
Alkyl (C12-16) dimethylbenzylammonium chloride	N/A	270-325-2	231-598-3	0.1-1%

Section 4 First aid measures

Description of first aid measures:

In all cases of doubt, or when symptoms persist, seek medical attention.

In case of inhalation:

Move to fresh air. If symptoms persist, call a physician.

In case of skin contact:

Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.

In case of eyes contact:

Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.

In case of ingestion:

Do NOT induce vomiting. Drink plenty of water. If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed:

The product is not classified as harmful to human health effect.

Indication of any immediate medical attention and special treatment needed:

Treat symptomatically.

Section 5 Fire-Fighting measures

Extinguishing media:

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

Unsuitable extinguishing media:Use of water spray when fighting fire may be inefficient.

Special hazards arising from the

substance or mixture

Carbon oxides.

Special fire fighting methods and

special protective actions for

fire-fighters:

As in any fire, wear self-contained breathing apparatus pressure-demand,

MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel: Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Use

personal protective equipment. Evacuate personnel to safe areas. Keep people

away from and upwind of spill/leak.

For emergency responders: Wear an appropriate NIOSH/MSHA approved respirator if dust is generated.

Environmental Precautions: Do not allow material to contaminate ground water system. Prevent product from

entering drains.

Methods for Containment and Cleaning up: Prevent further leakage or spillage if safe to do so. Collect and transfer to properly

Product name: Formula 409® Antibacterial All-Purpose Cleaner
Version #: 1.0 Issue date:10-10-2014. Revision date: 10-10-2014.

labeled containers.

Reference to other sections: See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

Additional information: Not applicable.

Section 7 Handling and storage

Precautions for safe handling:

Handle in accordance with good industrial hygiene and safety practice. Avoid Protective measures:

contact with eyes. Avoid contact with skin. Avoid contact with skin and eyes.

Advice on general occupational hygiene: Do not eat, drink and smoke in work areas. Wash hands after use. Remove

contaminated clothing and protective equipment before entering eating areas.

Conditions for safe storage, including

any incompatibilities:

Keep containers tightly closed in a dry, cool and well-ventilated place.

Specific end use(s): Not applicable.

Section 8 Exposure Controls/Personal Protection

Control parameters:

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA:

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Singapore Permissible	Not Available					
Exposure Limits of						
Toxic Substances						

EMERGENCY LIMITS:

Ingredient	TEEL-0	TEEL-1	TEEL-2	TEEL-3
Singapore	Not Available	Not Available	Not Available	Not Available

Ingredient	Original IDLH	Revised IDLH
Lauryldimethylamine oxide	Not Available	Not Available
benzyl-C12-16-alkyldimethylammonium chloride	Not Available	Not Available

Exposure controls:

Appropriate engineering controls: Exhaust ventilation should be designed to prevent accumulation and recirculation in

the workplace and safely remove carbon black from the air.

Individual protection measures, such as personal protective equipment:

Eye/face protection: No special protective equipment required. No special protective equipment required. Hand protection: No special protective equipment required. **Body protection:**

Respiratory protection: No protective equipment is needed under normal use conditions. If exposure limits

are exceeded or irritation is experienced, ventilation and evacuation may be

required.

Thermal hazards: Wear suitable protective clothing to prevent heat.

According to local regulations, Federal and official regulations. **Environmental exposure controls:**

Section 9 Physical and chemical properties

Product name: Formula 409® Antibacterial All-Purpose Cleaner SDS EU Version #: 1.0 Issue date:10-10-2014. Revision date: 10-10-2014. 3/6

Information on basic physical and chemical properties:

Appearance: Liquid

Colour: Clear Green Floral Citrus Odour: Odour threshold: Not available

:Ha 10.5 Melting point/range (°C): Not available Not available Boiling point/range (°C): Flash point (°C): Not available Not available **Evaporation rate:** Flammability limit - lower (%): Not available Flammability (solid, gas): Not available Ignition temperature (°C): Not available **Upper/lower flammability/explosive limits:** Not available Vapour pressure (20°C): Not available Vapour density: Not available Not available Density:

Bulk density (kg/m³): Not available Water solubility (g/l): Soluble in water. n-Octanol/Water (log Po/w): Not available Not available **Auto-ignition temperature: Decomposition temperature:** Not available Viscosity, dynamic (mPa.s): Not available

Not available **Explosive properties:** Oxidising properties: Not available Not available Molecular Formula: **Molecular Weight:** Not available

Other information:

Fat solubility(solvent- oil to be specified) Not available

etc:

Not available Surface tension: Dissociation constant in water(pKa): Not available **Oxidation-reduction Potential:** Not available Specific gravity: Not available

Section 10 Stability and reactivity

The substance is stable under normal storage and handling conditions. Reactivity:

Chemical stability: Stable at room temperature in closed containers under normal storage and handling

conditions.

Possibility of hazardous reactions: No dangerous reactions known.

Conditions to avoid: Not available. Not available. **Incompatible materials:** Hazardous decomposition products: Carbon oxides.

Section 11 Toxicological information

Toxicokinetics, metabolism and distribution:

Non-human toxicological data: Not available

Information on toxicological effects:

Acute toxicity:

LD50(Oral, Rat): Not available LD50(Dermal, Rabbit): Not available LC50(Inhalation, Rat): Not available Not classified Skin corrosion/Irritation: Serious eye damage/irritation: Not classified Not classified Respiratory or skin sensitization: Germ cell mutagenicity: Not classified Carcinogenicity: Not classified Not classified Reproductive toxicity: STOT- single exposure: Not classified STOT-repeated exposure: Not classified

Section 12 Ecological information

Toxicity:

Acute t	oxicity	Time	Species	Method	Evaluation	Remarks
LC50	N/A	96h	Fish	OECD 203	N/A	N/A
EC50	N/A	48h	Daphnia	OECD 202	N/A	N/A
EC50	N/A	72h	Algae	OECD 201	N/A	N/A

Persistence and degradability:

Bioaccumulative potential:

Mobility in soil:

Results of PBT&vPvB assessment:

Other adverse effects:

Not available.

Not available.

Section 13 Disposal considerations

Waste treatment methods: The material should be disposed of by incineration in a chemical incinerator in

compliance with national and regional requirements.

Product / Packaging disposal: If empty container retains product residues, all label precautions must be observed.

Return for reuse or dispose according to national or local regulations.

Section 14 Transport information					
	Land transport(ADR/RID) Sea transport (IMDG)		Air transport (ICAO/IATA)		
UN-Number	Not regulated	Not regulated	Not regulated		
UN Proper shipping name	Not regulated	Not regulated	Not regulated		

Transport hazard Class	Not regulated	Not regulated	Not regulated
Packaging group	Not regulated	I	Not regulated
Environmental hazards Not regulated		Yes	Not regulated
Special precautions for user	See section 2.2	See section 2.2	See section 2.2
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not regulated	Not regulated	Not regulated

Section 15 Regulation information

Safety, health and environmental regulations/legislation specific for the substance or mixture:

Lauramine oxide	Not available.
Alkyl (C12-16) dimethylbenzylammonium chloride	Not available.

Section 16 Other information

Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

Notice to reader:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

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