

SAFETY DATA SHEET



Revision Date 07-Aug-2015

Version 1

1. IDENTIFICATION

Product identifier

Product Name LQ ABS 001 .000% BROWN #2 (TINT) LC

Other means of identification

Product Code OM83660461

Recommended use of the chemical and restrictions on use

Recommended Use Colorant / Additive or base polymer used for manufacture of plastic components.

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Address

Clariant Corporation
BU Masterbatches
85 Industrial Drive
Holden, MA 01520
Phone: 508-829-6321

Information of the substance/preparation:

Product Safety: Product Stewardship: 1-517-629-7703 / 1-704-331-7710 (8:00 a.m. - 6:00 p.m. EST
Monday - Friday)

Emergency telephone number

Emergency Telephone Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION**GHS Classification****OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

| | |
|--|------------|
| Carcinogenicity | Category 2 |
| Specific target organ toxicity (repeated exposure) | Category 2 |

GHS Label elements**Warning****Hazard statements**

Suspected of causing cancer

May cause damage to organs through prolonged or repeated exposure

**Precautionary Statements - Prevention**

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Other Information

Harmful to aquatic life with long lasting effects

Harmful to aquatic life

3. COMPOSITION/INFORMATION ON INGREDIENTS**Substance**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

| Chemical Name | CAS No. | Weight-% | Trade Secret |
|--|-------------|----------|--------------|
| Titanium oxide (TiO ₂) | 13463-67-7 | 30 - 60 | * |
| Proprietary Ingredient | Proprietary | 10 - 30 | * |
| Silica | 7631-86-9 | 1 - 5 | * |
| Iron oxide (Fe ₂ O ₃) | 1309-37-1 | 1 - 5 | * |
| Aluminum oxide (Al ₂ O ₃) | 1344-28-1 | 1 - 5 | * |
| Proprietary Chromium Compound | Proprietary | 0.1 - 1 | * |
| Carbon Black | 1333-86-4 | 0.1 - 1 | * |

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES**Description of first aid measures****Eye contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists: Get medical advice/attention.

Skin Contact

Remove contaminated clothing and shoes. Wash skin with soap and water. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Administer oxygen if breathing is difficult. If symptoms persist, call a physician.

Ingestion

Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.

Most important symptoms and effects, both acute and delayed**Symptoms**

The most important known symptoms and effects are described in Section 11.

Indication of any immediate medical attention and special treatment needed**Note to physicians**

ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE.

5. FIRE-FIGHTING MEASURES

Flash point No information available

Flammability Limit in Air

Upper flammability limit: No information available

Lower flammability limit: No information available

Self ignition No information available

Ignition temperature No information available

Minimum Ignition Energy No information available

Impact Sensitivity No information available

Hazardous combustion products Carbon monoxide. Carbon dioxide (CO₂). Hydrocarbons. Hydrogen chloride. Hazardous decomposition products due to incomplete combustion. Nitrogen oxides (NO_x). Hazardous Organic Compounds. Aldehydes. Hazardous metal fumes and oxides. Emits toxic and/or corrosive gases.

Suitable extinguishing media Water spray (fog). Carbon dioxide (CO₂). Foam. Dry chemical.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the chemical

Combustible material. In the event of fire and/or explosion do not breathe fumes. Thermal decomposition can lead to release of irritating and toxic gases and vapors. Runoff may pollute waterways. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Explosion data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling.

Environmental precautions

Environmental precautions See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so. Dike far ahead of spill; use dry sand to contain the flow of material.

Methods for cleaning up Prevent product from entering drains. Use only non-sparking tools. Take precautionary measures against static discharges. Take up with sand or other non-combustible absorbent material and place into containers for later disposal. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation, especially in confined areas. Do not breathe dust/fume/gas/mist/vapors/spray. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity).

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Do not store near combustible materials. Keep in an area equipped with sprinklers. Keep from freezing.

Incompatible materials Strong oxidizing agents. Strong acids. Strong bases. Strong reducing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---|--|--|---|
| Titanium oxide (TiO ₂) 13463-67-7 | TWA: 10 mg/m ³ | TWA: 15 mg/m ³ total dust (vacated) TWA: 10 mg/m ³ total dust | IDLH: 5000 mg/m ³ |
| Silica 7631-86-9 | - | (vacated) TWA: 6 mg/m ³ <1% Crystalline silica TWA: 20 mppcf : (80)/(% SiO ₂) mg/m ³ TWA | IDLH: 3000 mg/m ³ TWA: 6 mg/m ³ |
| Iron oxide (Fe ₂ O ₃) 1309-37-1 | TWA: 5 mg/m ³ respirable fraction | TWA: 10 mg/m ³ fume TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction (vacated) TWA: 10 mg/m ³ fume and total dust Iron oxide (vacated) TWA: 5 mg/m ³ respirable fraction regulated under Rouge | IDLH: 2500 mg/m ³ Fe dust and fume TWA: 5 mg/m ³ Fe dust and fume |
| Aluminum oxide (Al ₂ O ₃) 1344-28-1 | TWA: 1 mg/m ³ respirable fraction | TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction (vacated) TWA: 10 mg/m ³ total dust (vacated) TWA: 5 mg/m ³ respirable fraction | - |
| Proprietary Chromium Compound | - | TWA: 0.5 mg/m ³ Cr (vacated) TWA: 0.5 mg/m ³ Cr (vacated) Ceiling: 0.1 mg/m ³ Ceiling: 0.1 mg/m ³ CrO ₃ applies to any operations or sectors for which the Hexavalent Chromium standard [29 CFR 1910.1026] is stayed or is otherwise not in effect | IDLH: 15 mg/m ³ Cr(VI) IDLH: 25 mg/m ³ Cr(III) TWA: 0.0002 mg/m ³ Cr TWA: 0.5 mg/m ³ Cr |
| Carbon Black 1333-86-4 | TWA: 3 mg/m ³ inhalable fraction | TWA: 3.5 mg/m ³ (vacated) TWA: 3.5 mg/m ³ | IDLH: 1750 mg/m ³ TWA: 3.5 mg/m ³ TWA: 0.1 mg/m ³ Carbon black in presence of Polycyclic aromatic hydrocarbons PAH |

Appropriate engineering controls

Engineering Controls

Showers
Eyewash stations
Ventilation systems. Local exhaust recommended when appropriate to control employee exposure to dust or process vapors.

Individual protection measures, such as personal protective equipment

| | |
|---------------------------------|--|
| Eye/face protection | Safety glasses with side-shields. |
| Hand Protection | Wear protective nitrile rubber gloves. |
| Skin and body protection | Wear appropriate personal protective clothing to prevent skin contact. |
| Respiratory protection | Respiratory protection is not required under normal use. Use NIOSH/MSHA approved respirators following manufacturer's recommendations where mist or spray mist may be generated. |

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | | | |
|-------------------------------|--------------------------|-------------------------|--------------------------|
| Physical state | liquid | Odor | No significant odor |
| Appearance | liquid | Odor threshold | No information available |
| Color | Varies | | |
| Property | Values | Remarks • Method | |
| pH | No information available | | |
| Melting point/freezing point | No information available | | |
| Boiling point / boiling range | No information available | | |
| Flash point | No information available | | |
| Evaporation rate | No information available | | |
| Flammability (solid, gas) | No information available | | |
| Flammability Limit in Air | | | |
| Upper flammability limit: | No information available | | |
| Lower flammability limit: | No information available | | |
| Vapor pressure | No information available | | |
| Vapor density | No information available | | |
| Specific Gravity | No information available | | |
| Water solubility | No information available | | |
| Solubility in other solvents | No information available | | |
| Partition coefficient | No information available | | |
| Autoignition temperature | No information available | | |
| Decomposition temperature | No information available | | |
| Minimum Ignition Energy | No information available | | |
| Impact Sensitivity | No information available | | |
| Kinematic viscosity | No information available | | |
| Dynamic viscosity | No information available | | |
| Explosive properties | No information available | | |
| Oxidizing properties | No information available | | |

10. STABILITY AND REACTIVITY

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated

Chemical stability

Stable.

Possibility of Hazardous Reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid

Avoid open flames, sources of ignition and excessive heat.

Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases. Strong reducing agents.

Hazardous Decomposition Products

Hydrocarbons. Hazardous Organic Compounds. Hydrogen chloride. Aldehydes.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

| | |
|----------------------------|---|
| Product Information | No data available |
| Inhalation | Aspiration into lungs can produce severe lung damage. |
| Eye contact | See Section 2 for any known hazards. |
| Skin Contact | See Section 2 for any known hazards. |
| Ingestion | Not an expected route of exposure. |

Numerical measures of toxicity - Component Information

The information provided on the hazardous ingredient(s) listed below applies to the individual ingredient(s) in their pure form. The form of the ingredient(s) provided to you is either liquid or encapsulated in plastic and as a consequence the values presented by this data may not be representative of the finished product. No data exists on the finished product. Individual component information is listed below

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|----------------------|----------------------|-----------------------------------|
| Titanium oxide (TiO ₂) 13463-67-7 | > 5,000 mg/kg (Rat) | > 2,000 mg/kg (Rat) | > 6.8 mg/L (Rat) 4 h |
| Proprietary Ingredient | > 34,600 mg/kg (Rat) | > 10,250 mg/kg (Rat) | > 17,300 mg/L (Rat) 4 h |
| Silica 7631-86-9 | > 5,000 mg/kg (Rat) | > 2,000 mg/kg (Rat) | = 2.2 mg/L (Rat) 4 h |
| Iron oxide (Fe ₂ O ₃) 1309-37-1 | > 2,000 mg/kg (Rat) | - | > 219 mg/m ³ (Rat) 4 h |
| Aluminum oxide (Al ₂ O ₃) 1344-28-1 | > 10,000 mg/kg (Rat) | > 2,000 mg/kg (Rat) | > 5.3 mg/L (Rat) 4 h |
| Proprietary Chromium Compound | > 5,000 mg/kg (Rat) | - | - |
| Carbon Black 1333-86-4 | > 5,000 mg/kg (Rat) | > 3,000 mg/kg (Rat) | - |

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available.
Germ cell mutagenicity No information available.
Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical Name | ACGIH | IARC | NTP | OSHA |
|---|-------|----------|-----|------|
| Titanium oxide (TiO ₂) 13463-67-7 | - | Group 2B | - | X |
| Silica 7631-86-9 | - | Group 3 | - | - |
| Iron oxide (Fe ₂ O ₃) 1309-37-1 | - | Group 3 | - | - |
| Proprietary Chromium Compound | - | Group 3 | - | - |
| Carbon Black 1333-86-4 | A3 | Group 2B | - | X |

Reproductive toxicity No information available.

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| | |
|--------------------------|---------------------------|
| STOT - single exposure | No information available. |
| STOT - repeated exposure | No information available. |
| Aspiration hazard | No information available. |

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

| | |
|-------------------------------|------------------|
| ATEmix (oral) | 38270 mg/kg |
| ATEmix (dermal) | 23644 mg/kg mg/l |
| ATEmix (inhalation-dust/mist) | 9 mg/l |

12. ECOLOGICAL INFORMATION

| | |
|---------------------------------|---|
| Ecotoxicity | Harmful to aquatic life with long lasting effects |
| Persistence and degradability | No information available. |
| Bioaccumulation | No information available. |
| Other adverse effects | No information available |
| Ozone depletion potential (ODP) | No information available |

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

| | |
|--------------------|---|
| Disposal of wastes | Disposal should be in accordance with applicable regional, national and local laws and regulations. |
|--------------------|---|

14. TRANSPORT INFORMATION

| | |
|-------------|---------------|
| <u>DOT</u> | Not regulated |
| <u>TDG</u> | Not regulated |
| <u>IATA</u> | Not regulated |
| <u>IMDG</u> | Not regulated |

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15. REGULATORY INFORMATION

International Inventories

TSCA

All components of this product are listed or excluded from listing on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) Inventory

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

| Chemical Name | Weight-% | SARA 313 - Threshold Values % |
|--|----------|-------------------------------|
| C.I. Pigment Yellow 119 (Zinc ferrite brown spinel) - 68187-51-9 | 1 - 5 | 1.0 |

SARA 311/312 Hazard Categories

| | |
|-----------------------------------|-----|
| Acute health hazard | No |
| Chronic Health Hazard | Yes |
| Fire hazard | No |
| Sudden release of pressure hazard | No |
| Reactive Hazard | No |

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

| Chemical Name | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|--|-----------------------------|------------------------|---------------------------|----------------------------|
| C.I. Pigment Yellow 119 (Zinc ferrite brown spinel) 68187-51-9 | - | X | - | - |
| Proprietary Chromium Compound | - | X | - | - |
| Chromium oxide (Cr2O3) 1308-38-9 | - | X | - | - |

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

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16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

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Revision Note

No information available

Disclaimer

This information is supplied under the OSHA Hazard Communication Standard, 29 CFR 1910.1200, and is offered in good faith based on data available to us that we believe to be true and accurate. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable to the material. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate for that use. No warranty, express or implied, is made regarding the accuracy of this data, the hazards connected with the use of the material, or the results to be obtained from the use thereof. We assume no responsibility for damage or injury from the use of the product described herein. Data provided here are typical and not intended for use as product specifications.

End of Safety Data Sheet