

LQ ABS 001.000% BRIGHT ORANGE LC

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Version : 1 - 1 / USA

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SECTION 1. IDENTIFICATION**Identification of the company:**

MB, West Chicago
4000 Monroe Road
Charlotte, NC, 28205
Telephone No.: +1 704-331-7000

Information of the substance/preparation:

BU Masterbatches
Product Stewardship +1-704-331-7710

Emergency tel. number: +1 800-424-9300(CHEMTREC)**Trade name:****LQ ABS 001.000% BRIGHT ORANGE LC****Material number:**

FZ22687717

Synonyms:

OM22687717

Chemical family:

Colourant preparation

Primary product use:

Additive for plastic material processing

SECTION 2. HAZARDS IDENTIFICATION**GHS classification in accordance with 29 CFR 1910.1200**

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards

Hazards Not Otherwise Classified:

No particular hazards known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Colourant preparation

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
Silica, amorphous, fumed, crystalline free	112945-52-5	1 - 2.5
C.I. Pigment Yellow 53	8007-18-9	3 - 5
Zinc distearate	557-05-1	3 - 5
Calcium carbonate	471-34-1	10 - 20
C.I. Pigment Brown 24	68186-90-3	25 - 40

Any concentration shown as a range is due to batch variation.

SECTION 4. FIRST AID MEASURES

If inhaled

: Move the victim to fresh air.

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- Give oxygen or artificial respiration if needed.
Get immediate medical advice/ attention.
Never give anything by mouth to an unconscious person.
- In case of skin contact : Remove contaminated clothing and shoes.
Wash off immediately with plenty of water for at least 15 minutes.
Wash off with soap and water.
Get medical attention if irritation develops and persists.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Get medical attention immediately if irritation develops and persists.
- If swallowed : Rinse mouth.
Do NOT induce vomiting.
Never give anything by mouth to an unconscious person.
Get medical advice/ attention.
- Most important symptoms and effects, both acute and delayed : The possible symptoms known are those derived from the labelling (see section 2).
No additional symptoms are known.
- Notes to physician : Aspiration hazard if swallowed - can enter lungs and cause damage.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray
Foam
Carbon dioxide (CO₂)
Dry chemical
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : In case of fire hazardous decomposition products may be produced such as:
Carbon monoxide
Carbon dioxide (CO₂)
Metal oxides
Carbon oxides
Silicon oxides
Formaldehyde
Nitrogen oxides (NO_x)
- Further information : Combustible material
In the event of fire and/or explosion do not breathe fumes.
During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion

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Do not allow run-off from fire fighting to enter drains or water courses.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment : Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Refer to protective measures listed in sections 7 and 8.
Avoid contact with skin, eyes and clothing.
Wash thoroughly after handling.

Environmental precautions : Do not allow contact with soil, surface or ground water.
Prevent product from entering drains.

Methods and materials for containment and cleaning up : Prevent product from entering drains.
Non-sparking tools should be used.
Take measures to prevent the build up of electrostatic charge.
Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
Clean contaminated surface thoroughly.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Take measures to prevent the build up of electrostatic charge.

Advice on safe handling : Handle in accordance with good industrial hygiene and safety practice.
Use only with adequate ventilation/personal protection.
For personal protection see section 8.
Avoid contact with skin, eyes and clothing.
Use only with adequate ventilation.
Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
Keep away from heat, sparks and open flames. Store in proper container and keep container closed when not in use.

Conditions for safe storage : Keep container tightly closed in a cool, well-ventilated place.
Protect from moisture.
Keep away from direct sunlight.

Technical measures/Precautions : Store in a cool, dry, well-ventilated area. Keep container sealed when not in use.
Store away from flammable or combustible materials.
Keep in an area equipped with sprinklers.
Keep from freezing.

Materials to avoid : not required

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
C.I. Pigment Yellow 53	8007-18-9	TWA	0.5 mg/m3 (antimony)	OSHA Z-1
		TWA	0.5 mg/m3 (antimony)	ACGIH
		TWA	0.5 mg/m3 (antimony)	OSHA P0
		TWA	0.5 mg/m3 (antimony)	NIOSH REL
		TWA	0.015 mg/m3 (Nickel)	NIOSH REL
C.I. Pigment Brown 24	68186-90-3	TWA	0.5 mg/m3 (antimony)	OSHA Z-1
		TWA	0.5 mg/m3 (antimony)	ACGIH
		TWA	0.5 mg/m3 (antimony)	OSHA P0
		TWA	0.5 mg/m3 (antimony)	NIOSH REL
Zinc distearate	557-05-1	TWA (Respirable)	5 mg/m3	NIOSH REL
		TWA (total)	10 mg/m3	NIOSH REL
		TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (Total dust)	10 mg/m3	OSHA P0
		TWA (respirable dust fraction)	5 mg/m3	OSHA P0
		TWA	10 mg/m3	ACGIH
Silica, amorphous, fumed, crystalline free	112945-52-5	TWA (Dust)	20 Million particles per cubic foot (Silica)	OSHA Z-3
		TWA (Dust)	80 mg/m3 / %SiO2 (Silica)	OSHA Z-3

Engineering measures

: Use engineering controls such as local or general exhaust to maintain airborne concentrations below exposure limits.

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Personal protective equipment

- Respiratory protection : Respiratory protection is not required under normal use. Use NIOSH/MSHA approved respirators following manufacturer's recommendations where dust, mist, or spray mist may be generated.
- Hand protection
Remarks : Nitrile rubber gloves.
- Eye protection : Safety glasses with side-shields
- Skin and body protection : Wear protective clothing, including long sleeves and gloves, to prevent skin contact.
- Hygiene measures : The usual Industrial Hygiene precautions must be taken during work, in particular: do not drink, eat or smoke during the handling of the product and clean hands and face during work intervals and after work.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : Liquid
- Colour : yellow
- Odour : characteristic
- Odour Threshold : Not applicable
- pH : not tested.
- Melting point : Not applicable
- Boiling point : not determined
- Flash point : not tested.
- Evaporation rate : not tested.
- Flammability (solid, gas) : Not applicable
- Self-ignition : not tested.
- Upper explosion limit : not tested.
- Lower explosion limit : not tested.
- Vapour pressure : not tested.

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Relative vapour density	:	Not applicable
Relative density	:	not available
Density	:	not tested.
Solubility(ies) Water solubility	:	not determined
Partition coefficient: n-octanol/water	:	This property is not applicable for mixtures.
Decomposition temperature	:	To the best of our current knowledge, no thermal decomposition of the product is expected if it is processed according to good manufacturing practices. See section 10.4. "Conditions to avoid"
Viscosity Viscosity, dynamic	:	not tested.
Viscosity, kinematic	:	not tested.
Explosive properties	:	no data available no data available
Oxidizing properties	:	not available
Surface tension	:	not tested.
Particle size	:	Product specific

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Stable
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use.
Conditions to avoid	:	Keep away from heat, sparks, open flames, and other sources of ignition.
Incompatible materials	:	Peroxides Strong acids and oxidizing agents Strong acids and strong bases Strong oxidizing agents
Hazardous decomposition products	:	No decomposition if used as directed.

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SECTION 11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure**

Inhalation

Eye contact

Skin contact

Acute toxicity**Components:****C.I. Pigment Brown 24:**

Acute oral toxicity : LD50 (Rat, male and female): > 10,000 mg/kg
Method: BASF test
GLP: no

Acute inhalation toxicity : Remarks: Not applicable

Acute dermal toxicity : Remarks: Not applicable

Skin corrosion/irritation**Product:**

Result: No skin irritation

Components:**C.I. Pigment Brown 24:**

Species: Rabbit

Exposure time: 24 h

Method: Draize Test

Result: No skin irritation

GLP: no

Serious eye damage/eye irritation**Product:**

Result: No eye irritation

Components:**C.I. Pigment Brown 24:**

Species: rabbit eye

Result: slight irritation

Method: FDA guideline

GLP: no

Respiratory or skin sensitisation**Product:**

Result: non-sensitizing

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Components:**C.I. Pigment Brown 24:**

Remarks: Not applicable

Germ cell mutagenicity**Components:****C.I. Pigment Brown 24:**

- Genotoxicity in vitro
- : Test Type: Ames test
Species: Salmonella typhimurium
Concentration: 100 - 5000 µg/plate
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes
 - : Test Type: Ames test
Species: Escherichia coli
Concentration: 2,5 - 5000 µg/plate
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes
 - : Test Type: Chromosome aberration test in vitro
Species: Chinese hamster lung cells
Concentration: 0,5 - 900 µg/ml
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 487
Result: negative
GLP: yes
 - : Test Type: In vitro gene mutation study in mammalian cells
Species: mouse lymphoma cells
Concentration: 3,13 - 100 µg/ml
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes
- Germ cell mutagenicity - Assessment
- : It is concluded that the product is not mutagenic based on evaluation of several mutagenicity tests.

Carcinogenicity**Components:****C.I. Pigment Brown 24:**

- Carcinogenicity - Assessment
- : Not classifiable as a human carcinogen.

IARC

Listed

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OSHA Listed

NTP Listed

Reproductive toxicity**Components:****C.I. Pigment Brown 24:**

Effects on fertility : Test Type: One generation study
Species: Rat, male and female
Strain: Sprague-Dawley
Application Route: oral (gavage)
Dose: 250 - 500 - 1000 mg/kg
General Toxicity - Parent: NOAEL: $\geq 1,000$ mg/kg body weight
General Toxicity F1: NOAEL: $\geq 1,000$ mg/kg body weight
Method: OECD Test Guideline 422
GLP: yes

Effects on foetal development : Species: Rat
Strain: Sprague-Dawley
Application Route: oral (gavage)
Dose: 250 - 500 - 1000 mg/kg
General Toxicity Maternal: NOAEL: $\geq 1,000$ mg/kg body weight
Teratogenicity: NOAEL: $\geq 1,000$ mg/kg body weight
Method: OECD Test Guideline 422
GLP: yes

Reproductive toxicity - Assessment : No reproductive toxicity to be expected.
No teratogenic effects to be expected.

STOT - single exposure**Components:****C.I. Pigment Brown 24:**

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure**Components:****C.I. Pigment Brown 24:**

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

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Repeated dose toxicity**Components:****C.I. Pigment Brown 24:**

Species: Rat, male and female

NOAEL: 500 mg/kg

Application Route: oral (feed)

Exposure time: 90 d

Number of exposures: daily

Dose: 0,5 - 5 - 50 - 500 mg/kg

Group: yes

Method: OECD Test Guideline 408

GLP: No information available.

Application Route: Inhalation

Remarks: not tested.

Application Route: Skin contact

Remarks: not tested.

Aspiration toxicity**Components:****C.I. Pigment Brown 24:**

No aspiration toxicity classification

Experience with human exposure**Product:**

General Information : The possible symptoms known are those derived from the labelling (see section 2).

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Product:**

Toxicity to fish :
Remarks: no data available

Components:**C.I. Pigment Brown 24:**

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): > 10,000 mg/l
Exposure time: 96 h
Test Type: static test
Analytical monitoring: no
Method: DIN 38412 T.15
GLP: no
Remarks: The details of the toxic effect relate to the nominal concentration.

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- Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): > 100 mg/l
Exposure time: 48 h
Test Type: static test
Analytical monitoring: no
Method: OECD Test Guideline 202
GLP: yes
Remarks: The details of the toxic effect relate to the nominal concentration.
- Toxicity to algae : EC50 (*Desmodesmus subspicatus* (green algae)): > 100 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: no
Method: OECD Test Guideline 201
GLP: yes
Remarks: The details of the toxic effect relate to the nominal concentration.
- Toxicity to fish (Chronic toxicity) : Remarks: not required
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: not required
- Toxicity to microorganisms : EC50 (*Pseudomonas putida*): > 10,000 mg/l
End point: Bacteria toxicity (respiration inhibition)
Exposure time: 0.5 h
Test Type: aquatic
Analytical monitoring: no
Method: DIN 38412 T.27
GLP: no
Remarks: The details of the toxic effect relate to the nominal concentration.
- Toxicity to soil dwelling organisms : Remarks: Not applicable
- Plant toxicity : Remarks: Not applicable
- Sediment toxicity : Remarks: Not applicable
- Toxicity to terrestrial organisms : Remarks: Not applicable

Persistence and degradability**Components:****C.I. Pigment Brown 24:**

- Biodegradability : Remarks: Not applicable for inorganic compound.

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Physico-chemical
removability : Remarks: Inorganic product, cannot be eliminated from the
water by biological purification processes.

Bioaccumulative potential**Product:**

Bioaccumulation : Remarks: not tested.

Components:**C.I. Pigment Brown 24:**

Bioaccumulation : Remarks: Not relevant for inorganic substances

Mobility in soil**Product:**

Distribution among
environmental compartments : Remarks: not tested.

Components:**C.I. Pigment Brown 24:**

Distribution among
environmental compartments : Remarks: Not applicable

Other adverse effects**Product:**

Results of PBT and vPvB
assessment : Remarks: No information is available as no chemical safety
report (CSR) is required.

Additional ecological
information : Do not allow to enter ground water, waterways or waste water.

Components:**C.I. Pigment Brown 24:**

Environmental fate and
pathways : not available

Results of PBT and vPvB
assessment : The substance is inorganic, thus a PBT and vPvB criteria
assessment is not applicable according to Annex XIII of
Regulation (EC) 1907/2006.

Additional ecological
information : Do not allow to enter ground water, waterways or waste water.

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SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

- Waste from residues : Dispose of this product in accordance with all applicable local, state and federal regulations.
- Contaminated packaging : Regulations concerning reuse or disposal of used packaging materials must be observed.

SECTION 14. TRANSPORT INFORMATION

DOT	not restricted
IATA	not restricted
IMDG	not restricted

SECTION 15. REGULATORY INFORMATION**EPCRA - Emergency Planning and Community Right-to-Know Act****CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

Nickel compounds	Not Assigned	3 %
Antimony compounds	7440-36-0	40.8 %
Chromium (III) compound	Not Assigned	37.8 %
Zinc distearate	557-05-1	4 %

Clean Water Act

This product contains the following toxic pollutants listed under the U.S. Clean Water Act Section 307, antimony, Nickel, chromium, Zinc

The components of this product are reported in the following inventories:

TSCA : On TSCA Inventory

TSCA list

TSCA - 5(a) Significant New Use Rule List of Chemicals: No substances are subject to a Significant New Use Rule.

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D): No substances are subject to TSCA 12(b) export notification requirements.

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SECTION 16. OTHER INFORMATION**Full text of other abbreviations**

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

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change. Material Safety Data Sheets providing safety precautions, that should be observed when handling or storing Clariant products, are available upon request and are provided in compliance with applicable law. You should obtain and review the applicable Material Safety Data Sheet information before handling any of these products. For additional information, please contact Clariant.

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