

LQ ABS 001.000% BC31055 RED HIFORMER LC

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Substance key: 000000781899

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SECTION 1. IDENTIFICATION

Identification of the company:

Clariant Plastics & Coating USA LLC
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% BC31055 RED HIFORMER LC****Material number:**

FK33688326

Chemical family:

Colourant preparation
Carrier mixture: Paraffin oil / Fatty acid ester

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
Carrier mixture: Paraffin oil / Fatty acid ester

Components

Chemical name	CAS-No.	Concentration (% w/w)
3-Hydroxy-2-naphthoic acid	92-70-6	0.1 - 1
2-[Bis(2-hydroxyethyl)amino]ethyl oleate	10277-04-0	0.1 - 1
Silica, amorphous, fumed, crystalline free	112945-52-5	0.1 - 1
N,N'-Ethylenedi(stearamide)	110-30-5	1 - 5

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

SECTION 4. FIRST AID MEASURES

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If inhaled	: Move the victim to fresh air. 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 (CO ₂) 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 (CO ₂) 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 Do not allow run-off from fire fighting to enter drains or water

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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.

Further information on storage conditions : 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.

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Materials to avoid : not required

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Components with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
N,N'-Ethylenedi(stearamide)	110-30-5	TWA (Inhalable fraction)	10 mg/m3	ACGIH
		TWA (Respirable fraction)	3 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.

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

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Colour	:	red
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 / upper flammability limit	:	not tested.
Lower explosion limit / Lower flammability limit	:	not tested.
Vapour pressure	:	not tested.
Relative vapour density	:	Not applicable
Relative density	:	not available
Density	:	approx. 0.52 g/cm ³ Value determined from data on raw material.
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

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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 : Strong acids and oxidizing agents
Strong acids and strong bases
Strong oxidizing agents

Hazardous decomposition products : Possible in traces:
Nitrogen oxides (NOx)

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

Inhalation

Eye contact

Skin contact

Acute toxicity**Product:**

Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Components:**3-Hydroxy-2-naphthoic acid:**

Acute oral toxicity : LD50 (Rat, male and female): 823 mg/kg
Method: OECD Test Guideline 401
GLP: yes

Acute inhalation toxicity : Remarks: no data available

Acute dermal toxicity : Remarks: no data available

Acute toxicity (other routes of :

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administration)

Remarks: no data available

N,N'-Ethylenedi(stearamide):

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat, male and female): > 6.3 mg/l
Test atmosphere: dust/mist
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 402

Skin corrosion/irritation**Product:**

Result: No skin irritation

Components:**3-Hydroxy-2-naphthoic acid:**

Species: Rabbit
Exposure time: 4 h
Method: OECD Test Guideline 404
Result: No skin irritation
GLP: yes

N,N'-Ethylenedi(stearamide):

Species: Rabbit
Method: OECD Test Guideline 404
Result: No skin irritation

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

Result: No eye irritation

Components:**3-Hydroxy-2-naphthoic acid:**

Species: Rabbit
Result: Risk of serious damage to eyes.
Exposure time: 24 h
Method: OECD Test Guideline 405
GLP: yes

N,N'-Ethylenedi(stearamide):

Species: Rabbit
Result: No eye irritation
Method: OECD Test Guideline 405

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Respiratory or skin sensitisation**Product:**

Result: non-sensitizing

Components:**3-Hydroxy-2-naphthoic acid:**

Test Type: Maximisation Test

Exposure routes: Dermal

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Not a skin sensitizer.

GLP: yes

Assessment:

Harmful if swallowed.

N,N'-Ethylenedi(stearamide):

Species: Mouse

Method: OECD Test Guideline 429

Result: Not a skin sensitizer.

Germ cell mutagenicity**Components:****3-Hydroxy-2-naphthoic acid:**

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Concentration: 4 - 1000 µg/plate
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes

Test Type: Ames test
Test system: Escherichia coli
Concentration: 4 - 1000 µg/plate
Metabolic activation: with and without metabolic activation
Method: OECD Guide-line 472
Result: negative
GLP: yes

Genotoxicity in vivo : Test Type: Cytogenetic assay
Species: Chinese hamster (male and female)
Strain: Other
Cell type: Bone marrow cells
Application Route: Oral
Exposure time: einmalig
Dose: 2000 mg/kg Kgw.
Method: OECD Test Guideline 475

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Result: negative
GLP: yes

Germ cell mutagenicity - Assessment : Weight of evidence does not support classification as a germ cell mutagen.

N,N'-Ethylenedi(stearamide):Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negativeTest Type: Chromosome aberration test in vitro
Test system: Chinese hamster lung cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negativeTest Type: Mammalian cell gene mutation assay
Test system: mouse lymphoma cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative

Germ cell mutagenicity - Assessment : In vitro tests did not show mutagenic effects

Carcinogenicity**Components:****3-Hydroxy-2-naphthoic acid:**

Carcinogenicity - Assessment : No information available.

N,N'-Ethylenedi(stearamide):

Carcinogenicity - Assessment : No information available.

IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

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Reproductive toxicity**Components:****3-Hydroxy-2-naphthoic acid:**

Effects on fertility : Test Type: One generation study
Species: Rat, male and female
Strain: Sprague-Dawley
Application Route: oral (gavage)
Dose: 0, 12,5 - 50 - 200 mg/kg
General Toxicity - Parent: NOEL: 12.5 - 50 mg/kg body weight
General Toxicity F1: NOEL: 50 mg/kg body weight
Fertility: NOEL: 50 - 200 mg/kg body weight
Method: OECD Test Guideline 415
GLP: yes

Effects on foetal development : Test Type: reproductive and developmental toxicity study
Species: Rat
Application Route: oral (gavage)
Dose: 12,5 - 50 - 200 mg/kg
Duration of Single Treatment: > 98 d
General Toxicity Maternal: NOEL: 50 mg/kg body weight
Teratogenicity: NOAEL: 200 mg/kg body weight
Embryo-foetal toxicity: NOEL: 200 mg/kg body weight
Method: OECD Test Guideline 415
GLP: yes

Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

N,N'-Ethylenedi(stearamide):

Effects on foetal development : Test Type: Pre-natal
Species: Rat
Strain: Sprague-Dawley
Application Route: oral (gavage)
General Toxicity Maternal: NOAEL: >= 1,000 mg/kg body weight
Method: OECD Test Guideline 414

Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

STOT - single exposure**Components:****3-Hydroxy-2-naphthoic acid:**

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

N,N'-Ethylenedi(stearamide):

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

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STOT - repeated exposure**Components:****3-Hydroxy-2-naphthoic acid:**

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

N,N'-Ethylenedi(stearamide):

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

Repeated dose toxicity**Components:****3-Hydroxy-2-naphthoic acid:**

Species: Rat, male and female
NOEL: 12 - 60 mg/kg bw/day
Application Route: oral (gavage)
Exposure time: 28 Tage
Number of exposures: täglich
Dose: 0, 12, 60, 300 mg/kg Kgw./Tag
Group: yes
Method: OECD Test Guideline 407
GLP: yes

Repeated dose toxicity - : Harmful if swallowed.
Assessment

N,N'-Ethylenedi(stearamide):

Species: Rat, male and female
NOEL: >= 1000 mg/kg bw/day
Application Route: oral (gavage)
Method: OECD Test Guideline 408

Aspiration toxicity**Components:****3-Hydroxy-2-naphthoic acid:**

No aspiration toxicity classification

N,N'-Ethylenedi(stearamide):

no data available

Experience with human exposure**Product:**

General Information : The possible symptoms known are those derived from the

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labelling (see section 2).

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

Toxicity to fish :
Remarks: no data available

Components:**3-Hydroxy-2-naphthoic acid:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 68 mg/l
End point: mortality
Exposure time: 96 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: yes
Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 106 mg/l
aquatic invertebrates
End point: Immobilization
Exposure time: 48 h
Test Type: Immobilization
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes
Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to algae/aquatic : ErC50 (Pseudokirchneriella subcapitata (microalgae)): 65.3
plants
mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes
Remarks: The details of the toxic effect relate to the nominal concentration.

NOEC (Pseudokirchneriella subcapitata (microalgae)): 6.8
mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes
Remarks: The details of the toxic effect relate to the nominal concentration.

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Toxicity to fish (Chronic toxicity) : Remarks: no data available

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 10.4 mg/l
End point: Reproduction rate
Exposure time: 21 d
Test Type: semi-static test
Analytical monitoring: yes
Method: OECD Test Guideline 211
GLP: yes

EC50 (Daphnia magna (Water flea)): 24 mg/l
End point: Reproduction rate
Exposure time: 21 d
Test Type: semi-static test
Analytical monitoring: yes
Method: OECD Test Guideline 211
GLP: yes

Toxicity to microorganisms : EC50 (activated sludge): 2,171 mg/l
End point: Bacteria toxicity (respiration inhibition)
Exposure time: 3 h
Test Type: aquatic
Analytical monitoring: no
Method: OECD Test Guideline 209
GLP: No information available.

Ecotoxicology Assessment

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

N,N'-Ethylenedi(stearamide):

Toxicity to fish : LC50 (Oryzias latipes (Orange-red killifish)): 0.027 mg/l
End point: mortality
Exposure time: 96 h
Method: OECD Test Guideline 203
Remarks: No toxicity at the limit of solubility

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.0022 mg/l
Exposure time: 48 h
Test Type: semi-static test
Method: OECD Test Guideline 202
Remarks: No toxicity at the limit of solubility

Toxicity to algae/aquatic plants : NOEC (Pseudokirchneriella subcapitata (algae)): 0.053 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: No toxicity at the limit of solubility

Toxicity to fish (Chronic toxicity) : Remarks: no data available

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- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC50 (Daphnia magna (Water flea)): 0.0056 mg/l
Exposure time: 21 d
Method: OECD Test Guideline 211
Remarks: No toxicity at the limit of solubility
- Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l
Exposure time: 3 h
Test Type: static test
Method: OECD Test Guideline 209
- Toxicity to soil dwelling organisms : NOEC (Eisenia fetida (earthworms)): >= 1,000 mg/kg
Exposure time: 56 d
Method: OECD Test Guideline 222
- Sediment toxicity : NOEC: >= 1000 mg/kg dry weight (d.w.)
Test Type: static test
Sediment: Artificial sediment
Exposure duration: 28 d
Method: OECD Test Guideline 218

Persistence and degradability**Components:****3-Hydroxy-2-naphthoic acid:**

- Biodegradability : aerobic
Inoculum: activated sludge
Concentration: 100 mg/l
Biochemical Oxygen Demand (BOD)
Result: Not readily biodegradable.
Biodegradation: 1.3 %
Exposure time: 14 d
Method: OECD Test Guideline 301C
- Physico-chemical removability : Remarks: Not readily biodegradable.
- Photodegradation : Test Type: air
Sensitiser: OH
Concentration: 5,000,001 1/cm³
Rate constant: 2.42091E-11 cm³/s
Degradation (indirect photolysis): 50 %
Method: other (calculated)

N,N'-Ethylenedi(stearamide):

- Biodegradability : aerobic
Inoculum: activated sludge
Carbon dioxide (CO₂)
Result: Not readily biodegradable.
Biodegradation: 5.5 %
Exposure time: 28 d
Method: OECD Test Guideline 301B

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Bioaccumulative potential**Product:**

Bioaccumulation : Remarks: not tested.

Components:**3-Hydroxy-2-naphthoic acid:**

Bioaccumulation : Species: Cyprinus carpio (Carp)
Bioconcentration factor (BCF): < 0.5
Exposure time: 42 d
Concentration: 1 mg/l
Method: OECD Test Guideline 305C

N,N'-Ethylenedi(stearamide):

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : Remarks: Not applicable

Mobility in soil**Product:**

Distribution among environmental compartments : Remarks: not tested.

Components:**3-Hydroxy-2-naphthoic acid:**

Distribution among environmental compartments : adsorption
Medium: water - soil
log K_{oc}: 2.425
Method: Other

N,N'-Ethylenedi(stearamide):

Distribution among environmental compartments : log K_{oc}: 8.6 - 8.91
Method: calculated

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:**3-Hydroxy-2-naphthoic acid:**

Environmental fate and : Due to the distribution coefficient n-octanol/water,

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pathways

accumulation in organisms is not expected.

Results of PBT and vPvB assessment

: The substance is not identified as a PBT or as a vPvB substance.

Additional ecological information

: The product should not be allowed to enter drains, water courses or the soil.

N,N'-Ethylenedi(stearamide):

Results of PBT and vPvB assessment

: The substance is not identified as a PBT or as a vPvB substance.

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

: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Water Act

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

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

TSCA

: On TSCA Inventory, All components are compliant with the TSCA Inventory Notification (Active) rule.

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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.

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

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
OSHA Z-3	:	USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts
ACGIH / TWA	:	8-hour, time-weighted average
OSHA Z-3 / TWA	:	8-hour time weighted average

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

SAFETY DATA SHEET



LQ ABS 001.000% BC31055 RED HIFORMER LC

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Substance key: 000000781899

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