

Quad-Cure QX-4190

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	• Quad-Cure® 4190 Hardener
Trade Name	• Quad-Cure® 4190
Company	• Quadex LLC, 564 W. 9320 S., Sandy, UT 84070
Company Contact	• Matthew Peterson
Company Phone	• 844-782-4832
Emergency	• Domestic Shipments and to Canada: 1-800-633-8253 • International Shipments: 1-801-629-0667

2. HAZARDS IDENTIFICATION

GHS Ratings	<i>Oral Toxicity</i>	• Acute Tox. 4	• Oral>300+<=2000mg/kg
	<i>Dermal Toxicity</i>	• Acute Tox. 3	• Dermal>200+<=1000mg/kg
	<i>Skin corrosive</i>	• 1B	• Destruction of dermal tissue: Exposure < 1 hour Observation < 14 days, visible necrosis in at least one animal
	<i>Eye corrosive</i>	• 1	• Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity >= 3, Iritis > 1.5
	<i>Skin sensitizer</i>	• 1	• Skin sensitizer
	<i>Organ toxin repeated exposure</i>	• 2	• Presumed to be harmful to human health- Animal studies with significant toxic effects relevant to humans at generally moderate exposure (guidance)- Human evidence in exceptional cases
	<i>Hazard Statement(s)</i>		
	<i>H302</i>	• Harmful if swallowed	
	<i>H311</i>	• Toxic in contact with skin	
	<i>H314</i>	• Causes severe skin burns and eye damage	
	<i>H317</i>	• May cause an allergic skin reaction	
	<i>H318</i>	• Causes serious eye damage	
	<i>H373</i>	• May cause damage to organs through prolonged or repeated exposure	

2. HAZARDS IDENTIFICATION (CONTINUED)

<i>Precautionary Statement(s)</i>	<ul style="list-style-type: none"> P260 • Do not breathe dust/fume/gas/mist/vapours/spray P261 • Avoid breathing dust/fume/gas/mist/vapours/spray P264 • Wash ... thoroughly after handling P270 • Do not eat, drink or smoke when using this product P272 • Contaminated work clothing should not be allowed out of the workplace P280 • Wear protective gloves/protective clothing/eye protection/face protection P310 • Immediately call a POISON CENTER or doctor/physician P312 • Call a POISON CENTER or doctor/physician if you feel unwell P314 • Get Medical advice/attention if you feel unwell P321 • Specific treatment (see ... on this label) P322 • Specific measures (see ... on this label) P330 • Rinse mouth P361 • Remove/Take off immediately all contaminated clothing P363 • Wash contaminated clothing before reuse P301+P312 • IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell P301+P330+P331 • IF SWALLOWED: Rinse mouth. Do NOT induce vomiting P302+P352 • IF ON SKIN: Wash with soap and water P303+P361+P353 • IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower P304+P340 • IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing P305+P351+P338 • IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing P333+P313 • If skin irritation or a rash occurs: Get medical advice/attention P405 • Store locked up P501 • Dispose of contents/container to ...
<i>Signal Word</i>	<ul style="list-style-type: none"> • Danger
<i>Pictogram</i>	

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Cas #	Weight Concentration %
<i>Proprietary</i>		• 30.00% - 40.00%
<i>Amine</i>	• 217-168-8	• 40.00% - 50.00%
<i>Amine</i>	• 1761-71-3	• 15.00% - 25.00%
<i>Silica</i>	• 67762-90-7	• 1.00% - 5.00%

4. FIRST AID MEASURE

If inhaled remove to fresh air. If breathing is difficult, give oxygen. Obtain medical advice if there are persistent symptoms. Rinse immediately with plenty of water for at least 15 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Remove contacts if present and easy to do. Continue Rinsing. Get medical attention, if irritation or symptoms of overexposure persists. Immediately wash skin with soap and plenty of water. If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

<i>Flash Point</i>	• N/A
<i>LEL</i>	• N/A
<i>UEL</i>	• N/A
<i>Not applicable</i>	
<i>Foam, Carbon dioxide (CO2) or dry chemical or water spray (water stream may be ineffective).</i>	
<i>No information available</i>	
<i>Not available</i>	
<i>Firefighters, and others exposed, wear self-contained breathing apparatus.</i>	

6. ACCIDENTAL RELEASE MEASURES

Stop leak. Dike or contain spill. Pump into slavage tanks and/or absorb with suitable material. Use sparkless shovel to remove material. Evacuate area and keep unnecessary and unprotected personnel from entering the spill area. Use appropriate containment and clean up immediately. Stop leak, Dike and contain spill. Prevent spilled material from entering the ground, water and/or air by using appropriate containment methods.

7. HANDLING AND STORAGE

Avoid breathing vapor. Avoid contact with eyes, skin and clothing. Keep away from heat and flame. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling. Avoid exposure to heat, light, and air for prolonged periods of time. Store in a cool, dry well ventilated area away from sources of heat and incompatible materials. Eliminate all ignition materials and incompatible materials. Collect spill with non spark tools. No information available.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

<i>Chemical Name / CAS No.</i>	• Silica 67762-90-7
<i>OSHA Exposure Limits</i>	• Not Established.
<i>ACGIH Exposure Limits</i>	• Not Established.
<i>Other Exposure Limits</i>	• Not Established.

Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended. Always use adequate ventilation that comply with local regulations.

<i>Eye/face Protection</i>	• Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European.
<i>Skin Protection</i>	• Chemical-resistant gloves and chemical goggles, face-shield and synthetic apron or coveralls should be used to prevent contact with eyes, skin or clothing.
<i>Respiratory Protection</i>	• A NIOSH air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations.

9. PHYSICAL & CHEMICAL PROPERTIES

<i>Boiling Point</i>	• 0.983
<i>Specific Gravity (SG)</i>	• 1.033
<i>Lbs VOC/Gallon Less Water</i>	• 0.00
<i>Lbs VOC/Gallon Less Exempt</i>	• 0.00
<i>% VOL by Volume</i>	• 0.00

10. CHEMICAL STABILITY & REACTIVITY INFORMATION

Stable, Hazardous polymerization will not occur. Will react with Epoxy Resins especially at elevated temperatures. STABLE. Epoxy Resins under uncontrolled conditions. Mineral acids. Organic acid, oxidizers. Reacts with metals until reacted with epoxy. None known. Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION (CONTINUED)

Mixture Toxicity	
Component Toxicity	
<i>Eyes</i>	• Irritant to the eyes. Corrosive to Eyes.
<i>Skin</i>	• Irritant to the skin. Corrosive to Skin.
<i>Inhalation</i>	• Irritant to respiratory tract. Prolonged or excessive inhalation may cause respiratory tract irritation.
<i>Sensitization</i>	• Skin sensitization in humans. Avoid breathing vapors.
<i>Oral</i>	• N.D.A.
<i>Dermal</i>	• N.D.A.
<i>Inhalation</i>	• N.D.A.

12. ECOLOGICAL INFORMATION

No ecotoxicity data was found for the product. Component Ecotoxicity.

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with applicable local/municipal, state/provincial and federal regulations.

14. TRANSPORT INFORMATION

DOT	
<i>Proper shipping name</i>	<ul style="list-style-type: none"> Amines, liquid, corrosive, n.o.s.(3-Aminomethyl-3,5,5-trimethylcyclohexylamine (isophoronediamine), Triethylenetetramine mixture)
<i>UN number</i>	<ul style="list-style-type: none"> UN 2735
<i>Class</i>	<ul style="list-style-type: none"> 8
<i>Packing group</i>	<ul style="list-style-type: none"> II
Classification for SEA transport (IMO-IMDG)	
<i>Proper shipping name</i>	<ul style="list-style-type: none"> Amines, liquid, corrosive, n.o.s.(3-Aminomethyl-3,5,5-trimethylcyclohexylamine (isophoronediamine), Triethylenetetramine mixture)
<i>UN number</i>	<ul style="list-style-type: none"> UN 2735
<i>Class</i>	<ul style="list-style-type: none"> 8
<i>Packing group</i>	<ul style="list-style-type: none"> II
<i>Marine pollutant</i>	<ul style="list-style-type: none"> Epoxy resin
<i>Transport in bulk according to Annex I or II or MARPOL 73/78 and the IBC or IGC Code</i>	<ul style="list-style-type: none"> Consult IMO regulations before transporting ocean bulk
Classification for AIR transport (IATA/ICAO)	
<i>Proper shipping name</i>	<ul style="list-style-type: none"> Amines, liquid, corrosive, n.o.s.(3-Aminomethyl-3,5,5-trimethylcyclohexylamine (isophoronediamine), Triethylenetetramine mixture)
<i>UN number</i>	<ul style="list-style-type: none"> UN 2735
<i>Class</i>	<ul style="list-style-type: none"> 8
<i>Packing group</i>	<ul style="list-style-type: none"> II

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

15. REGULATORY INFORMATION

OSHA:29 CFR 1910.1200 Hazardous Chemical “Irritant”, Sensitizer	
<i>TSCA</i>	<ul style="list-style-type: none"> • Ingredients listed
<i>SARA III</i>	<ul style="list-style-type: none"> • Sec311 & 312 Immediate Health Hazard; Sec313 Chemicals above de minimus level: None
<i>CA PROP. 65 NOTICE WARNING: CANADIAN REGULATORY INFO</i>	<ul style="list-style-type: none"> • WHMIS; Hazard Classification: D2B Skin Sensitizer. Refer to SDS for specific warnings • WHMIS Symbols: Stylized T. • WHMIS Trade Secret Registry Numbers: None • Hazardous Products Act Information: This product SDS contains ingredients which are Controlled and/or on the Ingredient Disclosure List (HPA sections 13 and 14).
<i>Country</i>	<ul style="list-style-type: none"> • EU
<i>Safety Phrase</i>	<ul style="list-style-type: none"> • None
<i>Regulation</i>	<ul style="list-style-type: none"> • REACH (EU) SUBSTANCES OF VERY HIGH CONCERN • Toxic Substance Control Act (TSCA)
<i>All Components Listed</i>	<ul style="list-style-type: none"> • EU - No • TSCA - Yes

16. OTHER INFORMATION

<i>Further Information</i>	<ul style="list-style-type: none"> • HMIS® is a registered trade and service mark of the NPCA.
HMIS® Ratings	
<i>Health</i>	<ul style="list-style-type: none"> • 3
<i>Flammability</i>	<ul style="list-style-type: none"> • 1
<i>Physical hazard</i>	<ul style="list-style-type: none"> • 0
NFPA Ratings	
<i>Health</i>	<ul style="list-style-type: none"> • 3
<i>Flammability</i>	<ul style="list-style-type: none"> • 1
<i>Instability</i>	<ul style="list-style-type: none"> • 0
<i>Disclaimer</i>	<ul style="list-style-type: none"> • The information provided in this Safety Data Sheet is correct to the best of our knowledge information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification, The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.
<i>Issue Date</i>	<ul style="list-style-type: none"> • Not available.
<i>This Data Sheet Contains</i>	<ul style="list-style-type: none"> • Product and Company Identification: Synonyms changes from the previous Physical & Chemical Properties: Multiple Properties version in section(s): Transport Information: Material Transportation Information Regulatory Information: United States.