



Material Safety Data Sheet
QUIN-CIP-D, #115468

Prepared according to 29CFR 1910.1200.

1	Chemical Product Identification
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Product Trade Name	QUIN-CIP®-D	Emergency Contact Information: Quincy Compressor 701 North Dobson Avenue Bay Minette, AL 36507 217.222.7700
CAS Number	Not applicable for mixtures.	
Synonyms	None.	
Generic Chemical Name	Mixture.	
Product Type	Multipurpose.	
Preparation/Revision Date	August 2012	

2	Hazards Identification
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Appearance	Clear to yellow liquid.
Odor	Mild
Principal Hazards	Danger. • Causes severe eye irritation risk of irreversible eye damage. • Harmful if swallowed. • Harmful if inhaled. • Harmful if absorbed through skin. • May cause skin irritation. • May cause respiratory tract irritation. • May cause allergic skin reaction. • May cause chronic health effects.

Target Organs: Blood Central nervous system Kidney Liver Peripheral nervous system Hematopoietic system

*See Section 11 for complete health hazard information.

3	Composition/Information on Ingredients
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Hazardous Ingredients

Comp	CAS No.	Percentage (by wt.)	Carcinogen
Aniline	62-53-3	17.3%	N/E
Tricresyl phosphate	1330-78-5	From 1 to 4.9 percent	N/E

(N/E) - None established

4	First Aid Measures
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Eyes	Rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor.
Skin	Wash with plenty of soap and water. Immediately remove contaminated clothing. Call a poison center or doctor if you feel unwell. Launder contaminated clothing before reuse.
Inhalation	Remove victim to fresh air and keep in a rest position comfortable for breathing. Call a poison center or doctor.
Oral	DO NOT INDUCE VOMITING. Rinse mouth. Get immediate medical attention.



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5	Fire Fighting Measures
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Flash Point	260 °C, 500 °F ASTM D 92 (Typical)
Extinguishing Media	CO ₂ , dry chemical, or foam. Water can be used to cool and protect exposed material. Water can be used to cool and protect exposed material.
Firefighting Procedures	Wear full protective fire gear including self-containing breathing apparatus operated in the positive pressure mode with full face piece, coat, pants, gloves and boots. Use water to cool containers exposed to fire.
Unusual Fire & Explosion Hazards	Closed containers may explode on heating. See section 10 for additional information.

6	Accidental Release Measures
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Spill Procedures	Personal Protective Equipment must be worn, see Personal Protection Section for PPE recommendations. Take precautions to avoid release to the environment. Ventilate area if spilled in confined space or other poorly ventilated areas. Prevent entry into sewers and waterways, dispose of in accordance with all federal, state and local environmental regulation. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material.
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7	Handling and Storage
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Pumping Temperature	Not determined.
Maximum Handling Temperature	Not determined.
Handling Procedures	Keep containers closed when not in use. Do not discharge into drains or the environment; dispose in an authorized waste collection point. Use appropriate containment to avoid environmental contamination. Do not breathe dust, fume, gas, mist, vapors or spray. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Launder contaminated clothing before reuse. Empty container contains product residue which may exhibit hazards of product. Do not eat, drink or smoke when using this product. Dispose of packaging or containers in accordance with local, regional, national and international regulations.
Maximum Storage Temperature	Not determined.
Storage Procedures	Take precautions to avoid release to the environment. Store in dry, well ventilated place away from sources of heat and direct sunlight. Store locked up. See section 10 for incompatible materials.
Maximum Loading Temperature	Not determined.

8	Exposure Controls/Personal Protection
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Exposure Limits

Comp	Exposure Guidelines					
	OSHA		ACGIH		Other	
	TWA	STEL	TWA	STEL	TWA	STEL
Aniline	5 ppm (s)	N/E	2 ppm (s)	N/E	N/E	N/E

- (s) - Skin exposure
(p) - Proposed limit
(c) - Ceiling exposure
(l) - Recommended exposure limit
(u) - Supplier recommended exposure limit



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(N/E) - None established

Other Exposure Limits	Contains synthetic basestock. Under conditions which may generate mists, observe the OSHA PEL of 5 mg per cubic meter, ACGIH TWA of 5 mg per cubic meter for mineral oil mists.
Engineering Controls	Use local exhaust ventilation to control mists or vapors. Additional ventilation or exhaust may be required to maintain air concentrations below recommended exposure limits.
Gloves Procedures	Butyl rubber. Nitrile.
Eye Protection	Safety glasses. If potential for splash or mist exists, wear chemical goggles or face shield.
Respiratory Protection	Under normal use conditions, respirator is not usually required. Use NIOSH/MSHA approved disposable dust/mist mask if the recommended exposure limit is exceeded. Consult with an industrial hygienist to determine the appropriate respiratory protection for your specific use of this material. A respiratory protection program compliant with all applicable regulations must be followed whenever workplace conditions require the use of a respirator.
Clothing Recommendation	Gloves, coveralls, apron, boots as necessary to minimize contact. Use chemically protective boots when necessary to avoid contaminating shoes. Do not wear rings, watches or similar apparel that could entrap the material and cause a skin reaction. Launder contaminated clothing before reuse.

9	Physical and Chemical Properties
Flash Point	260 °C, 500 °F ASTM D 92 (Typical)
Upper Flammable Limit	Not determined.
Lower Flammable Limit	Not determined.
Autoignition Point	Not determined.
Explosion Data	Material does not have explosive properties.
Vapor Pressure	Not determined.
pH	Not determined.
Specific Gravity	0.94 (20 °C)
Bulk Density	Not determined.
Water Solubility	Insoluble.
Percent Solid	Not determined.
Percent Volatile	Not determined.
Volatile Organic Compound	Not determined.
Vapor Density	Not determined.
Evaporation Rate	Not determined.
Odor	Mild
Appearance	Clear to yellow liquid.
Viscosity	Not determined.
Odor Threshold	Not determined.
Boiling Point	Not determined.
Pour Point	Not determined.
Temperature	Not determined.
Melting / Freezing Point	Not determined.

The above data are typical values and do not constitute a specification. Vapor pressure data are calculated unless otherwise noted.

10	Stability and Reactivity
Stability	Material is normally stable at moderately elevated temperatures and pressures.
Decomposition Temperature	Not determined.
Incompatibility	Acids. Oxidizing agents. hydrogen peroxide Aniline reacts violently with hexachloromelamine and trichloromelamine. If mixed in a confined space, will explode or ignite causing potentially toxic fumes of carbon monoxide, nitrogen compounds and organic acids. Ozone, nitromethane and boron trichloride.
Polymerization	Will not occur.
Thermal Decomposition	Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion. Under combustion conditions, oxides of the following elements will be formed: Thermal decomposition may produce toxic organic vapors/fumes.
Conditions to Avoid	Not determined.
11	Toxicological Information

-- ACUTE EXPOSURE --

Eye Irritation	Severe eye irritant. Risk of irreversible damage to eyes. Based on data from similar materials.
Skin Irritation	May cause mild skin irritation. Does not meet Canadian D2B or EU R38 criteria. Based on data from similar materials. Prolonged or repeated contact may cause dermatitis.
Respiratory Irritation	May cause nose, throat, and lung irritation. Based on data from similar materials.
Dermal Toxicity	The LD50 in rabbits is 1000 – 2000 mg/Kg. Based on data from components or similar materials. Skin absorption of components of this material will cause systemic effects; note toxicity in other sections.
Inhalation Toxicity	The LC50 (1 hr.) in rats for vapors of this material is 20 - 200 mg/l. Based on data from components or similar materials. High concentrations may cause headaches, dizziness, fatigue, nausea, vomiting, drowsiness, stupor, other central nervous system effects leading to visual impairment, respiratory failure, unconsciousness and death.
Oral Toxicity	The LD50 in rats is 500 – 2000 mg/Kg. Based on data from components or similar materials. Ingestion of this material can result in neurotoxicity. Signs and symptoms include increased sweating of hands and feet, numbness, tingling and weakness in extremities, unsteady gait and decreased reflexes.
Dermal Sensitization	May cause skin sensitization. Based on data from similar materials.
Inhalation Sensitization	No data available to indicate product or components may be respiratory sensitizers.

-- CHRONIC EXPOSURE --

Chronic Toxicity	Repeated occupational exposure to tricresyl phosphate over a prolonged period of time may cause delayed neurotoxicity characterized by ataxia and tremors. Overexposure to a component of this material may result in methemoglobinemia. Symptoms of methemoglobinemia include weakness and reduction in respiratory rate. Coma and gradual respiratory failure may occur in extreme cases. Cyanosis may occur. Daily administration in the diet of rats produced some toxic effects at levels as low as 1500 ppm. In dogs, no discernable toxic effects at 1500 ppm were reported. High levels of this material in the diet caused degenerative changes in the liver, kidney, adrenal medulla, and thyroid of rats and a decrease in blood prothrombin content in rats and dogs.
Carcinogenicity	Aniline caused tumors of the spleen in test animals. Bladder cancers have been reported in occupationally exposed groups but co-exposures with other chemicals limits conclusions.
Mutagenicity	Aniline was mutagenic in a mammalian cell culture test system and in studies with mammals.
Reproductive Toxicity	No data available to indicate either product or components present at greater than 0.1% that may cause reproductive toxicity.



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Teratogenicity No data available to indicate product or any components contained at greater than 0.1% may cause birth defects. Refer

-- ADDITIONAL INFORMATION --

Other No other health hazards known.

12	Ecological Information
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-- ENVIRONMENTAL TOXICITY --

Freshwater Fish Toxicity The acute LC50 is 10 - 100 mg/L based on component data. Chronic effects expected at 10 - 100 mg/L based on component data.
Freshwater Invertebrates Toxicity The acute EC50 is 1 - 10 mg/L based on component data. Chronic effects expected at < 1 mg/L based on component data.
Algal Inhibition Not determined.
Saltwater Fish Toxicity Not determined.
Saltwater Invertebrates Toxicity Not determined.
Bacteria Toxicity The acute EC50 is 10 - 100 ppm based on component data.
Miscellaneous Toxicity Not determined.

-- ENVIRONMENTAL FATE --

Biodegradation Adequate data is not available to estimate the biodegradation potential of this material.
Bioaccumulation Less than 1.0% of the components potentially bioconcentrate, based on octanol/water coefficients.
Soil Mobility Not determined.

13	Disposal Considerations
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Waste Disposal This material, if discarded, is not a hazardous waste under RCRA Regulation 40 CFR 261. Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.

14	Transport Information
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ICAO/IATA I Not regulated.
ICAO/IATA II Not regulated.
IMDG Not regulated.
IMDG EMS Fire Not applicable.
IMDG EMS Spill Not applicable.
IMDG MFAG Not applicable.
MARPOL Annex II Not determined.
USCG Compatibility Not determined.
U.S. DOT Bulk UN3082 Environmentally hazardous substance, liquid, n.o.s. (Aniline) 9 , III, RQ (Aniline)
DOT NAERG 171
U.S. DOT (Intermediate) Not regulated.
U.S. DOT Intermediate NAERG Not applicable.
U.S. DOT Non-Bulk Not regulated.
U.S. DOT Non-Bulk Not applicable.



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NAERG	
Canada	Not regulated.
Mexico	Not regulated.
Bulk Quantity	85000 KG, 187391 lbs.
Intermediate Quantity	11000 KG, 24251 lbs.
Non-Bulk Quantity	400 KG, 882 lbs.

Review classification requirements before shipping materials at elevated temperatures.

15	Regulatory Information
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-- Global Chemical Inventories --

USA	All components of this material are on the US TSCA Inventory or are exempt.
Other TSCA Reg.	None known.
EU	All components comply with the EU 7th Amendment and are approved for EU sales. Lubrizol must maintain records of all imports of this product into the EU. Third party importers are asked to report every import to The Lubrizol PSCD Manager (Europe), Hazelwood, Derby DE56 1QN, UK.
Japan	May require notification in Japan.
Australia	All components are in compliance with chemical notification requirements in Australia.
New Zealand	All components are in compliance with chemical notification requirements in New Zealand.
Canada	All components are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List.
Switzerland	All components are in compliance with the Environmentally Hazardous Substance Ordinance in Switzerland. Lubrizol must maintain records of all imports of this product into Switzerland. Third party importers are asked to report every import to The Lubrizol PSCD Manager (Europe), Hazelwood, Derby DE56 1QN, UK.
Korea	All components are in compliance in Korea.
Philippines	All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990 (R.A. 6969).
China	All components of this product are listed on the Inventory of Existing Chemical Substances in China.
Taiwan	May require notification before sale in Taiwan.

-- Other U.S. Federal Regulations --

SARA Ext. Haz. Subst.	17.3% Aniline								
SARA Section 313	17.3% Aniline, CAS no. 62-53-3								
SARA 311									
Classifications	<table><tr><td>Acute Hazard</td><td>Yes</td></tr><tr><td>Chronic Hazard</td><td>Yes</td></tr><tr><td>Fire Hazard</td><td>No</td></tr><tr><td>Reactivity Hazard</td><td>No</td></tr></table>	Acute Hazard	Yes	Chronic Hazard	Yes	Fire Hazard	No	Reactivity Hazard	No
Acute Hazard	Yes								
Chronic Hazard	Yes								
Fire Hazard	No								
Reactivity Hazard	No								

CERCLA Hazardous Substances

Transit Reportable Quantities				
Component	Reportable Quantity RQ	Units	Reportable Quantity RQ	Units
Aniline	28994	lbs.	13152	KG



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-- State Regulations --

Cal. Prop. 65 This product contains the following chemical(s) known to the state of California to cause cancer and/or birth defects: 17.3% Aniline, CAS no. 62-53-3

-- Product Registrations --

U.S. Fuel Registration Not applicable.
Finnish Registration Number Not Registered
Swedish Registration Number Not Registered
Norwegian Registration Number Not Registered
Danish Registration Number Not Registered
Swiss Registration Number Not Registered
Italian Registration Number Not Registered

-- Other / International --

Miscellaneous Regulatory Information Not determined.

16	Other Information
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US NFPA Codes	Health	Fire	Reactivity	Special
	3	1	0	N/E

(N/E) - None established

HMIS Codes	Health	Fire	Reactivity
	3*	1	0

Precautionary Labels Danger.

- Causes severe eye irritation risk of irreversible eye damage.
- Harmful if swallowed.
- Harmful if inhaled.
- Harmful if absorbed through skin.
- May cause skin irritation.
- May cause respiratory tract irritation.
- May cause allergic skin reaction.
- May cause chronic health effects.