



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Identification of the preparation Q2392Series

Product use Inkjet printing

Version # 02

Revision date 14-Mar-2011

CAS # Mixture

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2. Hazards Identification

Emergency overview Skin contact or inhalation of solvents contained in this product may cause irritation of skin, eyes and mucous membranes.

Acute health effects

Skin contact Avoid contact with the skin.
Contact with skin may result in irritation.

Eye contact Avoid contact with eyes.
Contact with eyes may result in mild irritation. Contact with eyes may result in mild irritation.

Inhalation Do not breathe vapour. Inhalation of vapors or mists of the product may be irritating to the respiratory system.

Ingestion May be harmful if swallowed.

Potential health effects

Carcinogenicity Carbon black is classified by the IARC as a Group 2B carcinogen (the substance is possibly carcinogenic to humans). Carbon black in this preparation, due to its bound form, does not present this carcinogenic risk. None of the other ingredients in this preparation are classified as carcinogens according to ACGIH, EU, IARC, MAK, NTP or OSHA.

3. Composition / Information on Ingredients

Components	CAS #	Percent
1,3-dimethylimidazolidin-2-one	80-73-9	45 - 50
Carbon black	1333-86-4	1 - 5
Organic Compound B	Mixture	0.5 - 2.5
Isopropanol	67-63-0	< 5
Water	7732-18-5	> 40

Composition comments Carbon black is present only in a bound form in this preparation.

4. First Aid Measures

First aid procedures

Eye contact Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at least 15 minutes or until particles are removed. If irritation persists get medical attention.

Skin contact	Wash affected areas thoroughly with mild soap and water. If irritation persists get medical attention.
Inhalation	Move to fresh air. If symptoms persist, get medical attention.
Ingestion	If ingestion of a large amount does occur, seek medical attention. Never give anything by mouth to an unconscious person.

5. Fire Fighting Measures

Flammable properties	None known.
Extinguishing media	
Suitable extinguishing media	CO2, water, dry chemical, or foam
Unsuitable extinguishing media	None known.
Protection of firefighters	
Protective equipment and precautions for firefighters	Wear suitable protective equipment.
Hazardous combustion products	Combustion will produce carbon dioxide, carbon monoxide, and nitrogen oxides.

6. Accidental Release Measures

Environmental precautions	Do not let product enter drains. Do not flush into surface water or sanitary sewer system.
Methods for cleaning up	Wipe up with adsorbent material (e.g. cloth, fleece).
Other information	Soak up with inert absorbent material. Dispose of in compliance with federal, state, and local regulations. See also section 13 Disposal considerations.

7. Handling and Storage

Handling	Avoid contact with skin, eyes and clothing. Wear personal protective equipment.
Storage	Keep away from heat, sparks and flame. Store in a cool, dry place out of direct sunlight. Keep containers tightly closed. Keep out of reach of children.

8. Exposure Controls / Personal Protection

Occupational exposure limits

ACGIH

Components	Type	Value
Carbon black (1333-86-4)	TWA	3.5000 mg/m3
Isopropanol (67-63-0)	STEL	400.0000 ppm
	TWA	200.0000 ppm

U.S. - OSHA

Components	Type	Value
Isopropanol (67-63-0)	PEL	400.0000 ppm
	STEL	980.0000 mg/m3
		1225.0000 mg/m3
	TWA	500.0000 ppm
		400.0000 ppm
		980.0000 mg/m3

U.S. - Tennessee

Components	Type	Value
Carbon black (1333-86-4)	TWA	3.5000 mg/m3
Isopropanol (67-63-0)	STEL	500.0000 ppm
		1225.0000 mg/m3
	TWA	400.0000 ppm

Components	Type	Value
		980.0000 mg/m3
Exposure guidelines	Exposure limits have not been established for this product.	
Engineering controls	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.	
Personal protective equipment		
Eye / face protection	Wear safety glasses; chemical goggles (if splashing is possible).	
Skin protection	Wear appropriate chemical resistant gloves. Wear suitable protective clothing and eye/face protection. Remove and wash contaminated clothing before re-use.	
Respiratory protection	Provide adequate ventilation.	
General hygiene considerations	When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.	
General	Avoid contact with the skin and the eyes. Wear suitable protective equipment.	

9. Physical & Chemical Properties

Appearance	Not available.
Color	Black.
Odor	Not available.
Odor threshold	Not available.
Physical state	Liquid
Form	Liquid.
pH	9.5 - 10.5
Melting point	Not available.
Freezing point	Not available.
Boiling point	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Specific gravity	Not available.
Relative density	Not available.
Solubility (water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
VOC	< 543 g/L
Other information	VOC content (less water, less exempt compounds) = < 948 g/L (U.S. requirement, not for emissions)

10. Chemical Stability & Reactivity Information

Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Avoid high temperatures.
Incompatible materials	Incompatible with strong acids and oxidizing agents.
Hazardous decomposition products	Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
Possibility of hazardous reactions	Will not occur.

11. Toxicological Information

Oral toxicity LD50: oral/rat >2000 mg/kg

Carcinogenicity Carbon black is classified as a carcinogen by the IARC (possibly carcinogenic to humans, Group 2B) and by the State of California under Proposition 65. In their evaluations of carbon black, both organizations indicate that exposure to carbon black, per se, does not occur when it remains bound within a product matrix, specifically, rubber, ink, or paint.

ACGIH Carcinogens

Carbon black (CAS 1333-86-4)

A4 Not classifiable as a human carcinogen.

Isopropanol (CAS 67-63-0)

A4 Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Carbon black (CAS 1333-86-4)

2B Possibly carcinogenic to humans.

IARC Monographs: Evidence of carcinogenicity in humans

Carbon black (CAS 1333-86-4)

Inadequate data.

Routes of exposure

Potential routes of overexposure to this product are skin and eye contact and Inhalation.

Serious eye damage/eye irritation

Caused mild irritation in rabbit (OECD 405).

Skin sensitization

Skin irritation is not anticipated when used normally.

Sensitization

Did not cause sensitization on laboratory animals.

Mutagenicity

Not mutagenic in AMES Test.

Symptoms and target organs

Target Organs (NIOSH)

Carbon black (CAS 1333-86-4)

Eyes

Respiratory system

Isopropanol (CAS 67-63-0)

Eyes

Respiratory system

Skin

12. Ecological Information

Ecotoxicity

LC50: > 1000 mg/l, Killifish (Aplocheilus lineatus), 96.00 hours
NOAEC: 1000 mg/l, Killifish (Aplocheilus lineatus), 96.00 hours

Persistence and degradability

Not available.

Other adverse effects

This product has not been tested for ecological effects.

13. Disposal Considerations

Disposal instructions

Do not allow this material to drain into sewers/water supplies. Dispose of in compliance with federal, state, and local regulations.

14. Transport Information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations

All ingredients are listed or exempt

US TSCA 12(b): Contains CAS No: 80-73-9, subject to export notification requirements.

TSCA Section 5(a)(2) Significant New Use Rules: This product contains CAS No: 80-73-9 which is subject to a Significant New Use Rule at 40CFR721.9892.

Contains Metal > 0.1ppm

CERCLA (Superfund) reportable quantity

None

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 Yes
hazardous chemical

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No
Delayed Hazard - Yes
Fire Hazard - Yes
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance No

Section 311 hazardous chemical Yes

State regulations**US - Pennsylvania RTK - Hazardous Substances: Listed substance**

Carbon black (CAS 1333-86-4) Listed.
Isopropanol (CAS 67-63-0) Listed.

Regulatory information All chemical substances in this HP product have been notified or are exempt from notification under chemical substances notification laws in the following countries: US (TSCA), EU (EINECS/ELINCS), Switzerland, Canada (DSL/NDSL), Australia, Japan, Philippines, South Korea, New Zealand, and China.

16. Other Information

HMIS® ratings Health: 2
Flammability: 2
Physical hazard: 1

NFPA ratings Health: 2
Flammability: 2
Instability: 1

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Explanation of abbreviations

ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstracts Service
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CFR	Code of Federal Regulations
COC	Cleveland Open Cup
DOT	Department of Transportation
EPCRA	Emergency Planning and Community Right-to-Know Act (aka SARA)
IARC	International Agency for Research on Cancer
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
RCRA	Resource Conservation and Recovery Act
REC	Recommended
REL	Recommended Exposure Limit
SARA	Superfund Amendments and Reauthorization Act of 1986
STEL	Short-Term Exposure Limit
TCLP	Toxicity Characteristics Leaching Procedure
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
VOC	Volatile Organic Compounds