

# Safety Data Sheet

Complies with EC no. 1907/2006  
Issue Date:11/15/2013

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## Section 1: Chemical Product and Company Identification

Cat#: TMD-BK, TMD-BK-20ML, TMD-BK-FT-2, TMD-BK-FT-8

Part Name: BLACK TISSUE MARKING DYE

Supplier: General Data Healthcare  
4354 Ferguson Drive  
Cincinnati, OH 45245 USA  
Phone: 844.643.1129  
24 hr. Emergency Contact 1.800.255.3924 International: 01.813.248.0585  
(www.general-data.com/healthcare)

Identified uses: Laboratory use, manufacture of substances

## Section 2: Hazards Identification

Hazard Overview

Causes skin, eye and respiratory tract irritation.

GHS Classification

Skin Irritant Cat 2, Acute Inhalation Cat 4, Eye Irritation Cat 2B

Warning



Hazard and Precautionary Statements

Harmful if swallowed or, in contact with skin or if inhaled

Wear protective gloves/protective clothing/eye protection/face protection.

Wear protective gloves

IF SWALLOWED do not induce vomiting. Do not give anything to drink. Obtain medical attention without delay.

IF ON SKIN: Wash with plenty of soap and water.

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF IN EYES:

Get medical advice/attention if you feel unwell.

Rinse cautiously with water for several minutes.

Remove/Take off immediately all contaminated clothing.

NFPA Rating

Hazard Ratings:

These ratings are private assessments of the properties of the material using the ANSI/NFPA 704 Standard. Additional information can be found by consulting in the NFPA published ratings lists (List 325 and List 49).

If no data is listed the information is not available.

Health	Flammability	Reactivity
1	1	0

## Section 3: Composition/ Information on Ingredients

Note: Items listed with a CASRN... number have no CAS# available.

Item#	Name	EINECS	CAS#	% in product
1	Ammonium hydroxide	215-647-6	0001336216	6 - 10
2	Carbon black	215-609-9	0001333864	11 - 20
3	Formaldehyde	200-001-8	0000050000	0 - 5
4	Water	231-791-2	0007732185	91 - 100

## Section 4: First Aid Measures

Contact medical personnel if discomfort persists.

Flush eyes with flowing water for at least 15 minutes.

If breathing is difficult, contact emergency personnel.

If swallowed, do not induce vomiting. Do not give anything to drink. Obtain medical attention without delay.

If swallowed, wash out mouth with water if person is conscious.

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Remove contaminated clothing.  
Wash skin with deluge of water for at least 15 minutes.

### Section 5: Fire Fighting Measures

Flash point, deg F.: no data                      Method: no data  
UEL: no data            LEL: no data                      Autoignition temperature, deg. F.: no data  
Flammability Classification: no data                      Flame Propagation Rate: no data  
Hazardous Combustion Products: no data

### Section 6: Accidental Release Measures

Any information listed below is to be considered in addition to internal guidelines for isolation of spill, containment of spill, removal of ignition sources from immediate area, and collection for disposal of spill by trained, properly protected clean up personnel.

No special measures are indicated.

### Section 7: Handling and Storage

Store at room temp

### Section 8: Exposure Controls/ Personal Protection

#### OSHA (ACGIH) Exposure Limits

	IDLH:	TWA		STEL		CEILING	
		ppm	mg/	ppm	mg/m3	ppm	mg/m3
CAS#: 0000050000	IDLH: 20						
OSHA		Not classifi	--	2/15 mi	NE	--	--
ACGIH		--	--	--	--	0.3 c	0.37
CAS#: 0001333864	IDLH: 1,750 mg/m3						
OSHA		Not classifi	3.5	--	--	--	--
ACGIH		--	3.5	--	--	--	--
CAS#: 0001336216	IDLH: NE						
OSHA		NE	NE	NE	NE	NE	NE
ACGIH		NE	NE	NE	NE	NE	NE
CAS#: 0007732185	IDLH: NE						
OSHA		NE	NE	NE	NE	NE	NE
ACGIH		NE	NE	NE	NE	NE	NE

The use of eye protection in the form of safety glasses with side shields and the use of skin protection for hands in the form of gloves are considered minimum and non-discretionary in work places and laboratories. Any recommended personal protection equipment or environmental equipment is to be considered as additional to safety glasses and gloves.

Use chemical splash goggles and face shield.

Use latex or equivalent gloves.

Chemical-resistant gloves should be worn whenever this material is handled. The glove material has to be impermeable and resistant to the product. Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough.

Rinse and remove gloves immediately after use. Wash hands with soap and water. All glove recommendations presume that the risk of exposure is through splash and not intentional immersion of the hands into the product.

Since glove permeation data does not exist for this material, no recommendation for the glove material can be given for the product.

Permeation data must be obtained from the glove manufacturer to determine if the glove is suitable for the task.

### Section 9: Physical and Chemical Properties

Formula: no data                      vapor pressure: no data  
Formula Weight: no data                      vapor density: no data  
boiling point: no data                      Specific gravity: 1.02  
melting point: no data                      ph: no data  
solubility: complete                      appearance: black slightly viscous liquid

### Section 10: Stability and Reactivity

Chemical Stability: stable

Conditions to Avoid: no data

Incompatibility with other materials: no data

Hazardous Decomposition Products: oxides of carbon

Hazardous Polymerization: will not occur

**Section 11: Toxicological Information**

Acute Data: no data

Subchronic data: no data

**Section 12: Ecological Information**

no data

**Section 13: Disposal Considerations**

The following chart lists the status of the chemical and its components in reference to 40 CFR Part 261.33. If the product is listed by code number the substance may be subject to special federal and state disposal regulations. If no codes are listed the material must be disposed in compliance with all Federal, State and Local Regulations.

CAS#	Waste Code	Regulated Name
0000050000	U122	Formaldehyde
0001333864	not listed	not listed
0001336216	not listed	not listed
0007732185	not listed	not listed

**Section 14: Transportation Data**

Proper Shipping Name NOT REGULATED

Chemical Name

UN

Class

PG

**Section 15: Regulatory Information**

All components of this product are on the TSCA public inventory.

All components of this product are on the TSCA public inventory.

Prop 65 - Column A identifies those items which are known to the State of California to cause cancer. Column B identified items which are known to the State of California to cause reproductive toxicity.

CAS#	Column A	Column B
0000050000	Yes	no
0001333864	no	no
0001336216	no	no
0007732185	no	no

State Regulatory Information :If a CAS# is listed below this material is subject to the listed state right-to-know requirements.

CAS#	
0000050000	not listed
0001333864	not listed
0001336216	not listed
0007732185	not listed

**SARA Toxic Release Chemicals(as defined in Section 313 of SARA Title III)**

This list identifies the toxic chemicals, including their de minimis concentrations for which reporting is required under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA). The list is also referred to as the Toxics Release Inventory (TRI) List.

CAS#	Regulated name	de minimis conc. %	Rep. Thres.
0000050000	Formaldehyde	0.1	not listed
0001333864	not listed	not listed	not listed
0001336216	not listed	not listed	not listed
0007732185	not listed	not listed	not listed

**SARA Extremely Hazardous Substances and TPQs**

This list includes hazardous chemicals as defined in 29 CFR 1910.1200(c); and extremely hazardous substances regulated under Section 302 of SARA Title III with their TPQs (in pounds), as listed in 40 CFR 355, Appendices A and B.

CAS#	Regulated name	TPQ (pounds)	EHS-RQ(pounds)
0000050000	Formaldehyde	500	100

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0001333864	not listed	not listed	not listed
0001336216	not listed	not listed	not listed
0007732185	not listed	not listed	not listed

**CERCLA**

The hazardous substances, and their reportable quantities (RQs) are listed in the federal regulations at 40 CFR Part 302, Table 302.4. Release of a CERCLA hazardous substance in an amount equal to or greater than its RQ, in any 24-hour period, must be reported to the National Response Center at (800) 424-8802.

CAS#	Regulated name	RQ (pounds)
0000050000	Formaldehyde	100
0001333864	Not listed	Not listed
0001336216	Not listed	Not listed
0001336216	Ammonium hydroxide	1,000
0007732185	Not listed	Not listed

**Section 16: Other Information**

General Data Healthcare provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. General Data Healthcare. makes no representations or warranties, either expressed or implied of merchantability, fitness for particular purposes with respect to the information set forth herein or to which the information refers. Accordingly, General Data Healthcare will not be responsible for damages resulting from the use of or reliance upon this information.

END OF MSDS

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## Section 1: Chemical Product and Company Identification

Cat#: TMD-BL, TMD-BL-20ML, TMD-BL-FT-2, TMD-BL-FT-8

Part Name: BLUE TISSUE MARKING DYE

Supplier: General Data Healthcare

4354 Ferguson Drive

Cincinnati, OH 45245 USA

Phone: 844.643.1129

24 hr. Emergency Contact 1.800.255.3924 International: 01.813.248.0585

(www.general-data.com/healthcare)

Identified uses: Laboratory use, manufacture of substances

## Section 2: Hazards Identification

Hazard Overview

Causes skin, eye and respiratory tract irritation.

GHS Classification

Skin Irritant Cat 2, Acute Inhalation Cat 4, Eye Irritation Cat 2B

Warning



Hazard and Precautionary Statements

Harmful if swallowed or, in contact with skin or if inhaled

Wear protective gloves/protective clothing/eye protection/face protection.

Wear protective gloves

IF SWALLOWED do not induce vomiting. Do not give anything to drink. Obtain medical attention without delay.

IF ON SKIN: Wash with plenty of soap and water.

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF IN EYES:

Get medical advice/attention if you feel unwell.

Rinse cautiously with water for several minutes.

Remove/Take off immediately all contaminated clothing.

NFPA Rating

Hazard Ratings:

These ratings are private assessments of the properties of the material using the ANSI/NFPA 704 Standard. Additional information can be found by consulting in the NFPA published ratings lists (List 325 and List 49).

If no data is listed the information is not available.

Health	Flammability	Reactivity
1	1	0

## Section 3: Composition/ Information on Ingredients

Note: Items listed with a CASRN... number have no CAS# available.

Item#	Name	EINECS	CAS#	% in product
1	Ammonium hydroxide	215-647-6	0001336216	0 - 5
2	Copper phthalocyanine	205-685-1	0000147148	11 - 20
3	Formaldehyde	200-001-8	0000050000	0 - 5
4	Water	231-791-2	0007732185	81 - 90

## Section 4: First Aid Measures

Contact medical personnel if discomfort persists.

Flush eyes with flowing water for at least 15 minutes.

If breathing is difficult, contact emergency personnel.

If swallowed, do not induce vomiting. Do not give anything to drink. Obtain medical attention without delay.

If swallowed, wash out mouth with water if person is conscious.

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Hazardous Polymerization: will not occur

**Section 11: Toxicological Information**

Acute Data: no data

Subchronic data: no data

**Section 12: Ecological Information**

no data

**Section 13: Disposal Considerations**

The following chart lists the status of the chemical and its components in reference to 40 CFR Part 261.33. If the product is listed by code number the substance may be subject to special federal and state disposal regulations. If no codes are listed the material must be disposed in compliance with all Federal, State and Local Regulations.

CAS#	Waste Code	Regulated Name
0000050000	U122	Formaldehyde
0000147148	not listed	not listed
0001336216	not listed	not listed
0007732185	not listed	not listed

**Section 14: Transportation Data**

Proper Shipping Name NOT REGULATED

Chemical Name

UN

Class

PG

**Section 15: Regulatory Information**

All components of this product are on the TSCA public inventory.

All components of this product are on the TSCA public inventory.

Prop 65 - Column A identifies those items which are known to the State of California to cause cancer. Column B identified items which are known to the State of California to cause reproductive toxicity.

CAS#	Column A	Column B
0000050000	Yes	no
0000147148	no	no
0001336216	no	no
0007732185	no	no

State Regulatory Information :If a CAS# is listed below this material is subject to the listed state right-to-know requirements.

CAS#	
0000050000	not listed
0000147148	not listed
0001336216	not listed
0007732185	not listed

SARA Toxic Release Chemicals(as defined in Section 313 of SARA Title III)

This list identifies the toxic chemicals, including their de minimis concentrations for which reporting is required under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA). The list is also referred to as the Toxics Release Inventory (TRI) List.

CAS#	Regulated name	de minimis conc. %	Rep. Thres.
0000050000	Formaldehyde	0.1	not listed
0000147148	not listed	not listed	not listed
0001336216	not listed	not listed	not listed
0007732185	not listed	not listed	not listed

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**SARA Extremely Hazardous Substances and TPQs**

This list includes hazardous chemicals as defined in 29 CFR 1910.1200(c); and extremely hazardous substances regulated under Section 302 of SARA Title III with their TPQs (in pounds), as listed in 40 CFR 355, Appendices A and B.

CAS#	Regulated name	TPQ (pounds)	EHS-RQ(pounds)
0000050000	Formaldehyde	500	100
0000147148	not listed	not listed	not listed
0001336216	not listed	not listed	not listed
0007732185	not listed	not listed	not listed

**CERCLA**

The hazardous substances, and their reportable quantities (RQs) are listed in the federal regulations at 40 CFR Part 302, Table 302.4. Release of a CERCLA hazardous substance in an amount equal to or greater than its RQ, in any 24-hour period, must be reported to the National Response Center at (800) 424-8802.

CAS#	Regulated name	RQ (pounds)
0000050000	Formaldehyde	100
0000147148	Not listed	Not listed
0001336216	Not listed	Not listed
0001336216	Ammonium hydroxide	1,000
0007732185	Not listed	Not listed

**Section 16: Other Information**

General Data Healthcare provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. General Data Healthcare. makes no representations or warranties, either expressed or implied of merchantability, fitness for particular purposes with respect to the information set forth herein or to which the information refers. Accordingly, General Data Healthcare will not be responsible for damages resulting from the use of or reliance upon this information.

END OF MSDS



# Safety Data Sheet

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## Section 1: Chemical Product and Company Identification

Cat#: TMD-G, TMD-G-20ML, TMD-G-FT-2, TMD-G-FT-8

Part Name: GREEN TISSUE MARKING DYE

Supplier: General Data Healthcare

4354 Ferguson Drive

Cincinnati, OH 45245 USA

Phone: 844.643.1129

24 hr. Emergency Contact 1.800.255.3924 International: 01.813.248.0585

(www.general-data.com/healthcare)

Identified uses: Laboratory use, manufacture of substances

## Section 2: Hazards Identification

Hazard Overview

Causes skin, eye and respiratory tract irritation.

GHS Classification

Skin Irritant Cat 2, Acute Inhalation Cat 4, Eye Irritation Cat 2B

Warning



Hazard and Precautionary Statements

Harmful if swallowed or, in contact with skin or if inhaled

Wear protective gloves/protective clothing/eye protection/face protection.

Wear protective gloves

IF SWALLOWED do not induce vomiting. Do not give anything to drink. Obtain medical attention without delay.

IF ON SKIN: Wash with plenty of soap and water.

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF IN EYES:

Get medical advice/attention if you feel unwell.

Rinse cautiously with water for several minutes.

Remove/Take off immediately all contaminated clothing.

NFPA Rating

Hazard Ratings:

These ratings are private assessments of the properties of the material using the ANSI/NFPA 704 Standard. Additional information can be found by consulting in the NFPA published ratings lists (List 325 and List 49).

If no data is listed the information is not available.

Health	Flammability	Reactivity
1	1	0

## Section 3: Composition/ Information on Ingredients

Note: Items listed with a CASRN... number have no CAS# available.

Item#	Name	EINECS	CAS#	% in product
1	2-Propanol	200-661-7	0000067630	6 - 10
2	Ammonium hydroxide	215-647-6	0001336216	0 - 5
3	Formaldehyde	200-001-8	0000050000	0 - 5
4	N,N-Dimethylaminoethanol	203-542-8	0000108010	0 - 5
5	Water	231-791-2	0007732185	71 - 80

## Section 4: First Aid Measures

Contact medical personnel if discomfort persists.

Flush eyes with flowing water for at least 15 minutes.

If breathing is difficult, contact emergency personnel.

If swallowed, do not induce vomiting. Do not give anything to drink. Obtain medical attention without delay.

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If swallowed, wash out mouth with water if person is conscious.

Remove contaminated clothing.

Wash skin with deluge of water for at least 15 minutes.

### Section 5: Fire Fighting Measures

Flash point, deg F.: no data

Method: no data

UEL: no data LEL: no data

Autoignition temperature, deg. F.: no data

Flammability Classification: no data

Flame Propagation Rate: no data

Hazardous Combustion Products: no data

### Section 6: Accidental Release Measures

Any information listed below is to be considered in addition to internal guidelines for isolation of spill, containment of spill, removal of ignition sources from immediate area, and collection for disposal of spill by trained, properly protected clean up personnel.

No special measures are indicated.

### Section 7: Handling and Storage

Store at room temp

### Section 8: Exposure Controls/ Personal Protection

#### OSHA (ACGIH) Exposure Limits

	IDLH:	TWA		STEL		CEILING	
		ppm	mg/	ppm	mg/m3	ppm	mg/m3
CAS#: 0000050000	IDLH: 20						
OSHA		Not classifi	--	2/15 mi	NE	--	--
ACGIH		--	--	--	--	0.3 c	0.37
CAS#: 0000067630	IDLH: 2,000						
OSHA		CANADA	980	--	--	--	--
ACGIH		400	983	500	500	--	--
CAS#: 0000108010	IDLH: NE						
OSHA		NE	NE	NE	NE	NE	NE
ACGIH		NE	NE	NE	NE	NE	NE
CAS#: 0001336216	IDLH: NE						
OSHA		NE	NE	NE	NE	NE	NE
ACGIH		NE	NE	NE	NE	NE	NE
CAS#: 0007732185	IDLH: NE						
OSHA		NE	NE	NE	NE	NE	NE
ACGIH		NE	NE	NE	NE	NE	NE

The use of eye protection in the form of safety glasses with side shields and the use of skin protection for hands in the form of gloves are considered minimum and non-discretionary in work places and laboratories. Any recommended personal protection equipment or environmental equipment is to be considered as additional to safety glasses and gloves.

Use chemical splash goggles and face shield.

Use latex or equivalent gloves.

Chemical-resistant gloves should be worn whenever this material is handled. The glove material has to be impermeable and resistant to the product. Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough.

Rinse and remove gloves immediately after use. Wash hands with soap and water. All glove recommendations presume that the risk of exposure is through splash and not intentional immersion of the hands into the product.

Since glove permeation data does not exist for this material, no recommendation for the glove material can be given for the product.

Permeation data must be obtained from the glove manufacturer to determine if the glove is suitable for the task.

### Section 9: Physical and Chemical Properties

Formula: no data

vapor pressure: no data

Formula Weight: no data

vapor density: no data

boiling point: no data

Specific gravity: 1.02

melting point: no data

ph: no data

solubility: complete

appearance: green slightly viscous liquid

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**Section 10: Stability and Reactivity**

Chemical Stability: stable

Conditions to Avoid: no data

Incompatibility with other materials: no data

Hazardous Decomposition Products: oxides of carbon

Hazardous Polymerization: will not occur

**Section 11: Toxicological Information**

Acute Data: no data

Subchronic data: no data

**Section 12: Ecological Information**

no data

**Section 13: Disposal Considerations**

The following chart lists the status of the chemical and its components in reference to 40 CFR Part 261.33. If the product is listed by code number the substance may be subject to special federal and state disposal regulations. If no codes are listed the material must be disposed in compliance with all Federal, State and Local Regulations.

CAS#	Waste Code	Regulated Name
0000050000	U122	Formaldehyde
0000067630	not listed	not listed
0000108010	not listed	not listed
0001336216	not listed	not listed
0007732185	not listed	not listed

**Section 14: Transportation Data**

Proper Shipping Name: NOT REGULATED

Chemical Name:

UN:

Class:

PG:

**Section 15: Regulatory Information**

All components of this product are on the TSCA public inventory.

All components of this product are on the TSCA public inventory.

Prop 65 - Column A identifies those items which are known to the State of California to cause cancer. Column B identified items which are known to the State of California to cause reproductive toxicity.

CAS#	Column A	Column B
0000050000	Yes	no
0000067630	no	no
0000108010	no	no
0001336216	no	no
0007732185	no	no

State Regulatory Information: If a CAS# is listed below this material is subject to the listed state right-to-know requirements.

CAS#	
0000050000	not listed
0000067630	not listed
0000108010	not listed
0001336216	not listed
0007732185	not listed

SARA Toxic Release Chemicals (as defined in Section 313 of SARA Title III)

This list identifies the toxic chemicals, including their de minimis concentrations for which reporting is required under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA). The list is also referred to as the Toxics Release Inventory (TRI) List.

CAS#	Regulated name	de minimis conc. %	Rep. Thres.
0000050000	Formaldehyde	0.1	not listed

0000067630	Isopropyl alcohol (manufacturing-strong acid process, no su	1.0	not listed
0000108010	not listed	not listed	not listed
0001336216	not listed	not listed	not listed
0007732185	not listed	not listed	not listed

**SARA Extremely Hazardous Substances and TPQs**

This list includes hazardous chemicals as defined in 29 CFR 1910.1200(c); and extremely hazardous substances regulated under Section 302 of SARA Title III with their TPQs (in pounds), as listed in 40 CFR 355, Appendices A and B.

CAS#	Regulated name	TPQ (pounds)	EHS-RQ(pounds)
0000050000	Formaldehyde	500	100
0000067630	not listed	not listed	not listed
0000108010	not listed	not listed	not listed
0001336216	not listed	not listed	not listed
0007732185	not listed	not listed	not listed

**CERCLA**

The hazardous substances, and their reportable quantities (RQs) are listed in the federal regulations at 40 CFR Part 302, Table 302.4. Release of a CERCLA hazardous substance in an amount equal to or greater than its RQ, in any 24-hour period, must be reported to the National Response Center at (800) 424-8802.

CAS#	Regulated name	RQ (pounds)
0000050000	Formaldehyde	100
0000067630	Not listed	Not listed
0000108010	Not listed	Not listed
0001336216	Not listed	Not listed
0001336216	Ammonium hydroxide	1,000
0007732185	Not listed	Not listed

**Section 16: Other Information**

General Data Healthcare provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. General Data Healthcare. makes no representations or warranties, either expressed or implied of merchantability, fitness for particular purposes with respect to the information set forth herein or to which the information refers. Accordingly, General Data Healthcare will not be responsible for damages resulting from the use of or reliance upon this information.

END OF MSDS

# Safety Data Sheet

Complies with EC no. 1907/2006  
Issue Date:11/15/2013

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## Section 1: Chemical Product and Company Identification

Cat#: TMD-O, TMD-O-20ML, TMD-O-FT-2, TMD-O-FT-8

Part Name: ORANGE TISSUE MARKING DYE

Supplier: General Data Healthcare  
4354 Ferguson Drive  
Cincinnati, OH 45245 USA  
Phone: 844.643.1129  
24 hr. Emergency Contact 1.800.255.3924 International: 01.813.248.0585  
(www.general-data.com/healthcare)

Identified uses: Laboratory use, manufacture of substances

## Section 2: Hazards Identification

### Hazard Overview

Causes skin, eye and respiratory tract irritation.

### GHS Classification

Skin Irritant Cat 2, Acute Inhalation Cat 4, Eye Irritation Cat 2B

### Warning



### Hazard and Precautionary Statements

Harmful if swallowed or, in contact with skin or if inhaled

Wear protective gloves/protective clothing/eye protection/face protection.

Wear protective gloves

IF SWALLOWED do not induce vomiting. Do not give anything to drink. Obtain medical attention without delay.

IF ON SKIN: Wash with plenty of soap and water.

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF IN EYES:

Get medical advice/attention if you feel unwell.

Rinse cautiously with water for several minutes.

Remove/Take off immediately all contaminated clothing.

### NFPA Rating

#### Hazard Ratings:

These ratings are private assessments of the properties of the material using the ANSI/NFPA 704 Standard. Additional information can be found by consulting in the NFPA published ratings lists (List 325 and List 49).

If no data is listed the information is not available.

Health	Flammability	Reactivity
1	0	0

## Section 3: Composition/ Information on Ingredients

Note: Items listed with a CASRN... number have no CAS# available.

Item#	Name	EINECS	CAS#	% in product
1	Formaldehyde	200-001-8	0000050000	0 - 5
2	Pennspers Orange	Unknown	CASRNHXSM	11 - 20
3	Water	231-791-2	0007732185	81 - 90

## Section 4: First Aid Measures

Contact medical personnel if discomfort persists.

Flush eyes with flowing water for at least 15 minutes.

If breathing is difficult, contact emergency personnel.

If swallowed, do not induce vomiting. Do not give anything to drink. Obtain medical attention without delay.

If swallowed, wash out mouth with water if person is conscious.

Remove contaminated clothing.

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Wash skin with deluge of water for at least 15 minutes.

### Section 5: Fire Fighting Measures

Flash point, deg F.: no data                      Method: no data  
UEL: no data              LEL: no data                      Autoignition temperature, deg. F.: no data  
Flammability Classification: no data                      Flame Propagation Rate: no data  
Hazardous Combustion Products: no data

### Section 6: Accidental Release Measures

Any information listed below is to be considered in addition to internal guidelines for isolation of spill, containment of spill, removal of ignition sources from immediate area, and collection for disposal of spill by trained, properly protected clean up personnel.

Contain spilled liquids.  
Protect personnel from exposure.

### Section 7: Handling and Storage

Store at room temp

### Section 8: Exposure Controls/ Personal Protection

#### OSHA (ACGIH) Exposure Limits

	IDLH:	TWA		STEL		CEILING	
		ppm	mg/	ppm	mg/m3	ppm	mg/m3
CAS#: 0000050000	IDLH: 20						
OSHA		Not classifi	--	2/15 mi	NE	--	--
ACGIH		--	--	--	--	0.3 c	0.37
CAS#: 0007732185	IDLH: NE						
OSHA		NE	NE	NE	NE	NE	NE
ACGIH		NE	NE	NE	NE	NE	NE
CAS#: CASRNHXSM	IDLH: NE						
OSHA		NE	NE	NE	NE	NE	NE
ACGIH		NE	NE	NE	NE	NE	NE

The use of eye protection in the form of safety glasses with side shields and the use of skin protection for hands in the form of gloves are considered minimum and non-discretionary in work places and laboratories. Any recommended personal protection equipment or environmental equipment is to be considered as additional to safety glasses and gloves.

Use chemical splash goggles and face shield.  
Use latex or equivalent gloves.

Chemical-resistant gloves should be worn whenever this material is handled. The glove material has to be impermeable and resistant to the product. Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough. Rinse and remove gloves immediately after use. Wash hands with soap and water. All glove recommendations presume that the risk of exposure is through splash and not intentional immersion of the hands into the product. Since glove permeation data does not exist for this material, no recommendation for the glove material can be given for the product. Permeation data must be obtained from the glove manufacturer to determine if the glove is suitable for the task.

### Section 9: Physical and Chemical Properties

Formula: mixture                      vapor pressure: no data  
Formula Weight: no data                      vapor density: > 1  
boiling point: > 212 F                      Specific gravity: 1.02  
melting point: 32 F                      ph: no data  
solubility: soluble                      appearance: orange slightly viscous liquid

### Section 10: Stability and Reactivity

Chemical Stability: stable  
Conditions to Avoid: no data  
Incompatibility with other materials: no data  
Hazardous Decomposition Products: no data  
Hazardous Polymerization: will not occur

### Section 11: Toxicological Information

Acute Data: no data  
Subchronic data: no data

**Section 12: Ecological Information**

no data

**Section 13: Disposal Considerations**

The following chart lists the status of the chemical and its components in reference to 40 CFR Part 261.33. If the product is listed by code number the substance may be subject to special federal and state disposal regulations. If no codes are listed the material must be disposed in compliance with all Federal, State and Local Regulations.

CAS#	Waste Code	Regulated Name
0000050000	U122	Formaldehyde
0007732185	not listed	not listed
CASRNHXSMPO39	not listed	not listed

**Section 14: Transportation Data**

Proper Shipping Name NOT REGULATED

Chemical Name

UN

Class

PG

**Section 15: Regulatory Information**

All components of this product are on the TSCA public inventory.

All components of this product are on the TSCA public inventory.

Prop 65 - Column A identifies those items which are known to the State of California to cause cancer. Column B identified items which are known to the State of California to cause reproductive toxicity.

CAS#	Column A	Column B
0000050000	Yes	no
0007732185	no	no
CASRNHXSMPO39	no	no

State Regulatory Information :If a CAS# is listed below this material is subject to the listed state right-to-know requirements.

CAS#	
0000050000	not listed
0007732185	not listed
CASRNHXSM	not listed

SARA Toxic Release Chemicals(as defined in Section 313 of SARA Title III)

This list identifies the toxic chemicals, including their de minimis concentrations for which reporting is required under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA). The list is also referred to as the Toxics Release Inventory (TRI) List.

CAS#	Regulated name	de minimis conc. %	Rep. Thres.
0000050000	Formaldehyde	0.1	not listed
0007732185	not listed	not listed	not listed
CASRNHXSMPO39	not listed	not listed	not listed

SARA Extremely Hazardous Substances and TPQs

This list includes hazardous chemicals as defined in 29 CFR 1910.1200(c); and extremely hazardous substances regulated under Section 302 of SARA Title III with their TPQs (in pounds), as listed in 40 CFR 355, Appendices A and B.

CAS#	Regulated name	TPQ (pounds)	EHS-RQ(pounds)
0000050000	Formaldehyde	500	100
0007732185	not listed	not listed	not listed
CASRNHXSMPO39	not listed	not listed	not listed

CERCLA

The hazardous substances, and their reportable quantities (RQs) are listed in the federal regulations at 40 CFR Part 302, Table 302.4. Release of a CERCLA hazardous substance in an amount equal to or greater than its RQ, in any 24-hour period, must be reported to the National Response Center at (800) 424-8802.

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CAS#	Regulated name	RQ (pounds)
0000050000	Formaldehyde	100
0007732185	Not listed	Not listed
CASRNHXSMP039	Not listed	Not listed

**Section 16: Other Information**

General Data Healthcare provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. General Data Healthcare. makes no representations or warranties, either expressed or implied of merchantability, fitness for particular purposes with respect to the information set forth herein or to which the information refers. Accordingly, General Data Healthcare will not be responsible for damages resulting from the use of or reliance upon this information.

END OF MSDS



# Safety Data Sheet

Complies with EC no. 1907/2006  
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## Section 1: Chemical Product and Company Identification

Cat#: TMD-R, TMD-R-20ML, TMD-R-FT-2, TMD-R-FT-8

Part Name: RED TISSUE MARKING DYE

Supplier: General Data Healthcare

4354 Ferguson Drive

Cincinnati, OH 45245 USA

Phone: 844.643.1129

24 hr. Emergency Contact 1.800.255.3924 International: 01.813.248.0585

(www.general-data.com/healthcare)

Identified uses: Laboratory use, manufacture of substances

## Section 2: Hazards Identification

### Hazard Overview

Causes skin, eye and respiratory tract irritation.

### GHS Classification

Skin Irritant Cat 2, Acute Inhalation Cat 4, Eye Irritation Cat 2B

### Warning



### Hazard and Precautionary Statements

Harmful if swallowed or, in contact with skin or if inhaled

Wear protective gloves/protective clothing/eye protection/face protection.

Wear protective gloves

IF SWALLOWED do not induce vomiting. Do not give anything to drink. Obtain medical attention without delay.

IF ON SKIN: Wash with plenty of soap and water.

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF IN EYES:

Get medical advice/attention if you feel unwell.

Rinse cautiously with water for several minutes.

Remove/Take off immediately all contaminated clothing.

### NFPA Rating

#### Hazard Ratings:

These ratings are private assessments of the properties of the material using the ANSI/NFPA 704 Standard. Additional information can be found by consulting in the NFPA published ratings lists (List 325 and List 49).

If no data is listed the information is not available.

Health	Flammability	Reactivity
1	1	0

## Section 3: Composition/ Information on Ingredients

Note: Items listed with a CASRN... number have no CAS# available.

Item#	Name	EINECS	CAS#	% in product
1	2-Aminoethanol	205-483-3	0000141435	0 - 5
2	Formaldehyde	200-001-8	0000050000	0 - 5
3	N,N-Dimethylaminoethanol	203-542-8	0000108010	0 - 5
4	Water	231-791-2	0007732185	61 - 70

## Section 4: First Aid Measures

Contact medical personnel if discomfort persists.

Flush eyes with flowing water for at least 15 minutes.

If breathing is difficult, contact emergency personnel.

If swallowed, do not induce vomiting. Do not give anything to drink. Obtain medical attention without delay.

If swallowed, wash out mouth with water if person is conscious.

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Remove contaminated clothing.  
Wash skin with deluge of water for at least 15 minutes.

### Section 5: Fire Fighting Measures

Flash point, deg F.: no data                      Method: no data  
UEL: no data            LEL: no data                      Autoignition temperature, deg. F.: no data  
Flammability Classification: no data                      Flame Propagation Rate: no data  
Hazardous Combustion Products: no data

### Section 6: Accidental Release Measures

Any information listed below is to be considered in addition to internal guidelines for isolation of spill, containment of spill, removal of ignition sources from immediate area, and collection for disposal of spill by trained, properly protected clean up personnel.  
No special measures are indicated.

### Section 7: Handling and Storage

Store at room temp

### Section 8: Exposure Controls/ Personal Protection

#### OSHA (ACGIH) Exposure Limits

		TWA		STEL		CEILING	
		ppm	mg/	ppm	mg/m3	ppm	mg/m3
CAS#: 0000050000	IDLH: 20						
OSHA		Not classifi	--	2/15 mi	NE	--	--
ACGIH		--	--	--	--	0.3 c	0.37
CAS#: 0000108010	IDLH: NE						
OSHA		NE	NE	NE	NE	NE	NE
ACGIH		NE	NE	NE	NE	NE	NE
CAS#: 0000141435	IDLH: 30						
OSHA		Not classifi	6	--	--	--	--
ACGIH		3	7.5	6	6	--	--
CAS#: 0007732185	IDLH: NE						
OSHA		NE	NE	NE	NE	NE	NE
ACGIH		NE	NE	NE	NE	NE	NE

The use of eye protection in the form of safety glasses with side shields and the use of skin protection for hands in the form of gloves are considered minimum and non-discretionary in work places and laboratories. Any recommended personal protection equipment or environmental equipment is to be considered as additional to safety glasses and gloves.

Use chemical splash goggles and face shield.  
Use latex or equivalent gloves.

Chemical-resistant gloves should be worn whenever this material is handled. The glove material has to be impermeable and resistant to the product. Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough. Rinse and remove gloves immediately after use. Wash hands with soap and water. All glove recommendations presume that the risk of exposure is through splash and not intentional immersion of the hands into the product. Since glove permeation data does not exist for this material, no recommendation for the glove material can be given for the product. Permeation data must be obtained from the glove manufacturer to determine if the glove is suitable for the task.

### Section 9: Physical and Chemical Properties

Formula: no data                      vapor pressure: no data  
Formula Weight: no data                      vapor density: no data  
boiling point: no data                      Specific gravity: 1.02  
melting point: no data                      ph: no data  
solubility: complete                      appearance: red slightly viscous liquid

### Section 10: Stability and Reactivity

Chemical Stability: stable  
Conditions to Avoid: no data  
Incompatibility with other materials: no data  
Hazardous Decomposition Products: oxides of carbon

Hazardous Polymerization: will not occur

**Section 11: Toxicological Information**

Acute Data: no data  
Subchronic data: no data

**Section 12: Ecological Information**

no data

**Section 13: Disposal Considerations**

The following chart lists the status of the chemical and its components in reference to 40 CFR Part 261.33. If the product is listed by code number the substance may be subject to special federal and state disposal regulations. If no codes are listed the material must be disposed in compliance with all Federal, State and Local Regulations.

CAS#	Waste Code	Regulated Name
0000050000	U122	Formaldehyde
0000108010	not listed	not listed
0000141435	not listed	not listed
0007732185	not listed	not listed

**Section 14: Transportation Data**

Proper Shipping Name NOT REGULATED  
NOT REGULATED

Chemical Name

UN

Class

PG

**Section 15: Regulatory Information**

All components of this product are on the TSCA public inventory.

All components of this product are on the TSCA public inventory.

Prop 65 - Column A identifies those items which are known to the State of California to cause cancer. Column B identified items which are known to the State of California to cause reproductive toxicity.

CAS#	Column A	Column B
0000050000	Yes	no
0000108010	no	no
0000141435	no	no
0007732185	no	no

State Regulatory Information :If a CAS# is listed below this material is subject to the listed state right-to-know requirements.

CAS#	
0000050000	not listed
0000108010	not listed
0000141435	not listed
0007732185	not listed

**SARA Toxic Release Chemicals(as defined in Section 313 of SARA Title III)**

This list identifies the toxic chemicals, including their de minimis concentrations for which reporting is required under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA). The list is also referred to as the Toxics Release Inventory (TRI) List.

CAS#	Regulated name	de minimis conc. %	Rep. Thres.
0000050000	Formaldehyde	0.1	not listed
0000108010	not listed	not listed	not listed
0000141435	not listed	not listed	not listed
0007732185	not listed	not listed	not listed

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SARA Extremely Hazardous Substances and TPQs

This list includes hazardous chemicals as defined in 29 CFR 1910.1200(c); and extremely hazardous substances regulated under Section 302 of SARA Title III with their TPQs (in pounds), as listed in 40 CFR 355, Appendices A and B.

CAS#	Regulated name	TPQ (pounds)	EHS-RQ(pounds)
0000050000	Formaldehyde	500	100
0000108010	not listed	not listed	not listed
0000141435	not listed	not listed	not listed
0007732185	not listed	not listed	not listed

CERCLA

The hazardous substances, and their reportable quantities (RQs) are listed in the federal regulations at 40 CFR Part 302, Table 302.4. Release of a CERCLA hazardous substance in an amount equal to or greater than its RQ, in any 24-hour period, must be reported to the National Response Center at (800) 424-8802.

CAS#	Regulated name	RQ (pounds)
0000050000	Formaldehyde	100
0000108010	Not listed	Not listed
0000141435	Not listed	Not listed
0007732185	Not listed	Not listed

**Section 16: Other Information**

General Data Healthcare provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. General Data Healthcare. makes no representations or warranties, either expressed or implied of merchantability, fitness for particular purposes with respect to the information set forth herein or to which the information refers. Accordingly, General Data Healthcare will not be responsible for damages resulting from the use of or reliance upon this information.

END OF MSDS

# Safety Data Sheet

Complies with EC no. 1907/2006  
Issue Date:11/15/2013

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## Section 1: Chemical Product and Company Identification

Cat#: TMD-Y, TMD-Y-20ML, TMD-Y-FT-2, TMD-Y-FT-8

Part Name: YELLOW TISSUE MARKING DYE

Supplier: General Data Healthcare  
4354 Ferguson Drive  
Cincinnati, OH 45245 USA  
Phone: 844.643.1129  
24 hr. Emergency Contact 1.800.255.3924 International: 01.813.248.0585  
(www.general-data.com/healthcare)

Identified uses: Laboratory use, manufacture of substances

## Section 2: Hazards Identification

Hazard Overview

Causes skin, eye and respiratory tract irritation.

GHS Classification

Skin Irritant Cat 2, Acute Inhalation Cat 4, Eye Irritation Cat 2B

Warning



Hazard and Precautionary Statements

Harmful if swallowed or, in contact with skin or if inhaled

Wear protective gloves/protective clothing/eye protection/face protection.

Wear protective gloves

IF SWALLOWED do not induce vomiting. Do not give anything to drink. Obtain medical attention without delay.

IF ON SKIN: Wash with plenty of soap and water.

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF IN EYES:

Get medical advice/attention if you feel unwell.

Rinse cautiously with water for several minutes.

Remove/Take off immediately all contaminated clothing.

NFPA Rating

Hazard Ratings:

These ratings are private assessments of the properties of the material using the ANSI/NFPA 704 Standard. Additional information can be found by consulting in the NFPA published ratings lists (List 325 and List 49).

If no data is listed the information is not available.

Health	Flammability	Reactivity
1	1	0

## Section 3: Composition/ Information on Ingredients

Note: Items listed with a CASRN... number have no CAS# available.

Item#	Name	EINECS	CAS#	% in product
1	Ammonium hydroxide	215-647-6	0001336216	0 - 5
2	Formaldehyde	200-001-8	0000050000	0 - 5
3	Water	231-791-2	0007732185	81 - 90

## Section 4: First Aid Measures

Contact medical personnel if discomfort persists.

Flush eyes with flowing water for at least 15 minutes.

If breathing is difficult, contact emergency personnel.

If swallowed, do not induce vomiting. Do not give anything to drink. Obtain medical attention without delay.

If swallowed, wash out mouth with water if person is conscious.

Remove contaminated clothing.

Page 1 of 4

Wash skin with deluge of water for at least 15 minutes.

### Section 5: Fire Fighting Measures

Flash point, deg F.: no data                      Method: no data  
UEL: no data              LEL: no data                      Autoignition temperature, deg. F.: no data  
Flammability Classification: no data                      Flame Propagation Rate: no data  
Hazardous Combustion Products: no data

### Section 6: Accidental Release Measures

Any information listed below is to be considered in addition to internal guidelines for isolation of spill, containment of spill, removal of ignition sources from immediate area, and collection for disposal of spill by trained, properly protected clean up personnel.  
No special measures are indicated.

### Section 7: Handling and Storage

Store at room temp

### Section 8: Exposure Controls/ Personal Protection

#### OSHA (ACGIH) Exposure Limits

		TWA		STEL		CEILING	
		ppm	mg/	ppm	mg/m3	ppm	mg/m3
CAS#: 0000050000	IDLH: 20						
OSHA		Not classifi	--	2/15 mi	NE	--	--
ACGIH		--	--	--	--	0.3 c	0.37
CAS#: 0001336216	IDLH: NE						
OSHA		NE	NE	NE	NE	NE	NE
ACGIH		NE	NE	NE	NE	NE	NE
CAS#: 0007732185	IDLH: NE						
OSHA		NE	NE	NE	NE	NE	NE
ACGIH		NE	NE	NE	NE	NE	NE

The use of eye protection in the form of safety glasses with side shields and the use of skin protection for hands in the form of gloves are considered minimum and non-discretionary in work places and laboratories. Any recommended personal protection equipment or environmental equipment is to be considered as additional to safety glasses and gloves.

Use chemical splash goggles and face shield.  
Use latex or equivalent gloves.

Chemical-resistant gloves should be worn whenever this material is handled. The glove material has to be impermeable and resistant to the product. Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough. Rinse and remove gloves immediately after use. Wash hands with soap and water. All glove recommendations presume that the risk of exposure is through splash and not intentional immersion of the hands into the product. Since glove permeation data does not exist for this material, no recommendation for the glove material can be given for the product. Permeation data must be obtained from the glove manufacturer to determine if the glove is suitable for the task.

### Section 9: Physical and Chemical Properties

Formula: no data                      vapor pressure: no data  
Formula Weight: no data                      vapor density: no data  
boiling point: no data                      Specific gravity: 1.02  
melting point: no data                      ph: no data  
solubility: complete                      appearance: yellow slightly viscous liquid

### Section 10: Stability and Reactivity

Chemical Stability: stable  
Conditions to Avoid: no data  
Incompatibility with other materials: no data  
Hazardous Decomposition Products: oxides of carbon  
Hazardous Polymerization: will not occur

### Section 11: Toxicological Information

Acute Data: no data  
Subchronic data: no data

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**Section 12: Ecological Information**

no data

**Section 13: Disposal Considerations**

The following chart lists the status of the chemical and its components in reference to 40 CFR Part 261.33. If the product is listed by code number the substance may be subject to special federal and state disposal regulations. If no codes are listed the material must be disposed in compliance with all Federal, State and Local Regulations.

CAS#	Waste Code	Regulated Name
0000050000	U122	Formaldehyde
0001336216	not listed	not listed
0007732185	not listed	not listed

**Section 14: Transportation Data**

Proper Shipping Name NOT REGULATED

Chemical Name

UN

Class

PG

**Section 15: Regulatory Information**

All components of this product are on the TSCA public inventory.

All components of this product are on the TSCA public inventory.

Prop 65 - Column A identifies those items which are known to the State of California to cause cancer. Column B identified items which are known to the State of California to cause reproductive toxicity.

CAS#	Column A	Column B
0000050000	Yes	no
0001336216	no	no
0007732185	no	no

State Regulatory Information :If a CAS# is listed below this material is subject to the listed state right-to-know requirements.

CAS#	
0000050000	not listed
0001336216	not listed
0007732185	not listed

**SARA Toxic Release Chemicals(as defined in Section 313 of SARA Title III)**

This list identifies the toxic chemicals, including their de minimis concentrations for which reporting is required under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA). The list is also referred to as the Toxics Release Inventory (TRI) List.

CAS#	Regulated name	de minimis conc. %	Rep. Thres.
0000050000	Formaldehyde	0.1	not listed
0001336216	not listed	not listed	not listed
0007732185	not listed	not listed	not listed

**SARA Extremely Hazardous Substances and TPQs**

This list includes hazardous chemicals as defined in 29 CFR 1910.1200(c); and extremely hazardous substances regulated under Section 302 of SARA Title III with their TPQs (in pounds), as listed in 40 CFR 355, Appendices A and B.

CAS#	Regulated name	TPQ (pounds)	EHS-RQ(pounds)
0000050000	Formaldehyde	500	100
0001336216	not listed	not listed	not listed
0007732185	not listed	not listed	not listed

**CERCLA**

The hazardous substances, and their reportable quantities (RQs) are listed in the federal regulations at 40 CFR Part 302, Table 302.4. Release of a CERCLA hazardous substance in an amount equal to or greater than its RQ, in any 24-hour period, must be reported to the National Response Center at (800) 424-8802.

CAS#	Regulated name	RQ (pounds)
0000050000	Formaldehyde	100

---

0001336216	Not listed	Not listed
0001336216	Ammonium hydroxide	1,000
0007732185	Not listed	Not listed

**Section 16: Other Information**

General Data Healthcare provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. General Data Healthcare makes no representations or warranties, either expressed or implied of merchantability, fitness for particular purposes with respect to the information set forth herein or to which the information refers. Accordingly, General Data Healthcare will not be responsible for damages resulting from the use of or reliance upon this information.

END OF MSDS